



AKANKSHA ANALYTICAL & RESEARCH LAB

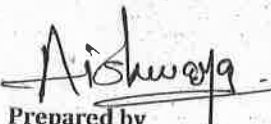
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/43-728/2021-22
		Report Date	26/11/2021
		Inward No	11-324
		Inward Date	20/11/2021
Sample Testing Location	Laboratory	Analysis Start date	22/11/2021
Sample Detail	ETP Outlet	Analysis End date	25/11/2021
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	3000 ml		

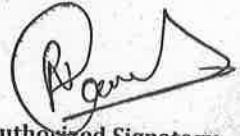
Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	---	8.22	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	11.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	33.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	2.00	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	687	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	24.6	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	4.56	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

- ❖ 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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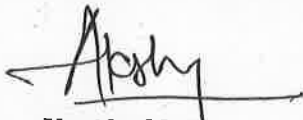
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/62-530/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/01/21-22
		Inward Date	20/11/2021
Sample Location	East -Shri. Yogesh Dhobale House	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	44	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.31	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	50.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	16.91	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.98	≤ 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	01.17	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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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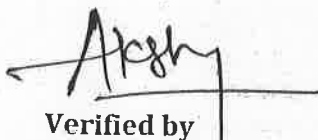
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-531/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/02/21-22
		Inward Date	20/11/2021
Sample Location	West side- Shri. Nivruthi Dhobale House	Sampling Time	12:30 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.34	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.67	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	60.19	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.78	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.32	≤ 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	00.89	≤ 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)


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...End of test report...



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NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/62-532/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/03/21-22
		Inward Date	20/11/2021
Sample Location	South Side- Shri. Yogesh Pingale house	Sampling Time	12:55 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.18	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.47	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	58.31	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.23	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.37	≤ 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	00.86	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. -Not Specified

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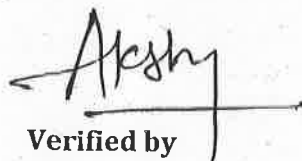
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NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-533/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/04/21-22
		Inward Date	20/11/2021
Sample Location	North side - Shri Bharat Dhobale House	Sampling Time	01:15 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	41	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.36	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.89	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	59.21	≤ 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	18.24	≤ 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	00.98	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 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)


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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-534/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/05/21-22
		Inward Date	20/11/2021
Sample Location	Main Gate (Company Premises)	Sampling Time	02:05 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	44	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.02	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	69.87	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.56	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.48	≤ 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	01.63	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping, 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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...End of test report...



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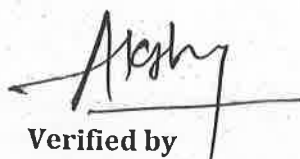
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-536/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/07/21-22
		Inward Date	20/11/2021
Sample Location	Old Boiler (37 T/hr)	Sampling Time	03:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	135.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.41	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	08.05	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	265997.06	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	118.12	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	93.64	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	119.23	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2581.17	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. - Not Specified


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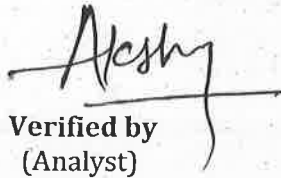
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
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		Report Date	29/11/2021
		Inward No	AL/7-287/08/21-22
		Inward Date	20/11/2021
Sample Location	New Boiler (80T/hr)	Sampling Time	03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	145.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.75	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.51	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	189802.38	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	135.12	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1498.24	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	278.18	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2634.21	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

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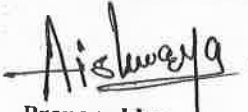
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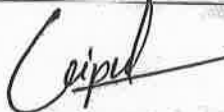
TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-722/2021-22
		Report Date 26/11/2021
		Inward No 11-318
		Inward Date 20/11/2021
Sample Testing Location	Laboratory	Analysis Start date 22/11/2021
Sample Detail	Well water-Yogesh Dhobale(East side)	Analysis End date 25/11/2021
Sample Collected By	Party	Sample Condition Fit For Analysis
Sample Volume	2250 ml	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.33	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1523	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.56	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	990	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	69.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	318	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	548	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	112	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	64.3	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	66.6	≤200	APHA23 rd Edition 2017 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.79	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.06	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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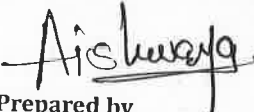
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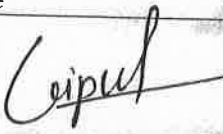
TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-725/2021-22
Sample Testing Location		Report Date 26/11/2021
Laboratory		Inward No 11-321
Sample Detail		Inward Date 20/11/2021
Sample Collected By		Analysis Start date 22/11/2021
Sample Volume		Analysis End date 25/11/2021
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.18	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	589	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.01	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	383	≤500	Electrometric Method IS 3025 (Part 16) RA 2012
7.	Chlorides as Cl	mg/lit	21.7	≤250	Gravimetric method IS3025(Part-32) RA 2009
8.	Total Alkalinity as CaCO ₃	mg/lit	169	≤200	Argentometric Method
9.	Total Hardness as CaCO ₃	mg/lit	164	≤200	IS3025(Part-23)RA 2009
10.	Calcium as Ca	mg/lit	42.4	≤75.0	EDTA Titrimetric method IS3025(Part-21) RA 2014
11.	Magnesium as Mg	mg/lit	13.9	≤30.0	EDTA Method IS3025(Part-40) RA 2009
12.	Sulphate as SO ₄ ²⁻	mg/lit	5.64	≤200	APHA 23 rd Edition 2017 3500- Mg B Calculation method
13.	Nitrate as NO ₃	mg/lit	4.26	≤45.0	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
14.	Iron as Fe	mg/lit	0.12	≤0.3	APHA 23 rd Edition 20174500-B-NO ₃ IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-726/2021-22
		Report Date 26/11/2021
		Inward No 11-322
		Inward Date 20/11/2021
Sample Testing Location	Laboratory	Analysis Start date 22/11/2021
Sample Detail	Well water-Yogesh Pingle(South Side)	Analysis End date 25/11/2021
Sample Collected By	Party	Sample Condition Fit For Analysis
Sample Volume	2250 ml	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	-	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.19	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1540	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.97	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1001	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	108	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	439	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	460	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	112	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	43.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	39.5	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.90	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ Sample will be preserve for seven days after analysis.
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- ❖ All the test conducted at permanent location not at out source
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

Vipul
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/43-724/2021-22
		Report Date	26/11/2021
		Inward No	11-320
		Inward Date	20/11/2021
Sample Testing Location	Laboratory	Analysis Start date	22/11/2021
Sample Detail	Borewell water-Bharat Dhoble(North side)	Analysis End date	25/11/2021
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	2250 ml		

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.06	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1187	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.43	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	772	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	55.2	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	322	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	404	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	99.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	37.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	12.0	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	8.68	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.19	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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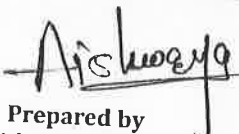
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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/43-723/2021-22
Sample Testing Location Laboratory		Report Date 26/11/2021
Sample Detail Borewell water-Shankar Chakkar(North side)		Inward No 11-319
Sample Collected By Party		Inward Date 20/11/2021
Sample Volume 2250 ml		Analysis Start date 22/11/2021
		Analysis End date 25/11/2021
		Sample Condition Fit For Analysis


Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	-	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.33	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1838	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.27	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	1195	≤500	Electrometric Method
7.	Chlorides as Cl	mg/lit	241	≤250	IS 3025 (Part 16) RA 2012
8.	Total Alkalinity as CaCO ₃	mg/lit	397	≤200	Gravimetric method
9.	Total Hardness as CaCO ₃	mg/lit	620	≤200	IS3025(Part-32) RA 2009
10.	Calcium as Ca	mg/lit	172	≤75.0	Argentometric Method
11.	Magnesium as Mg	mg/lit	45.6	≤30.0	IS3025(Part-21) RA 2014
12.	Sulphate as SO ₄ ²⁻	mg/lit	61.3	≤200	EDTA Titrimetric method
13.	Nitrate as NO ₃	mg/lit	7.30	≤45.0	IS3025(Part-40) RA 2009
14.	Iron as Fe	mg/lit	0.16	≤0.3	EDTA Method
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	APHA 23 rd Edition 2017 3500- Mg B
16.	Fecal Coliform	MPN/100ml	Present	Absent	Calculation method
17.	E- Coli	MPN/100ml	Present	Absent	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
					APHA 23 rd Edition 20174500-B-NO ₃
					IS3025(Part-53)

REMARK-

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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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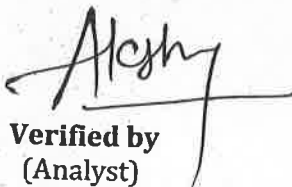
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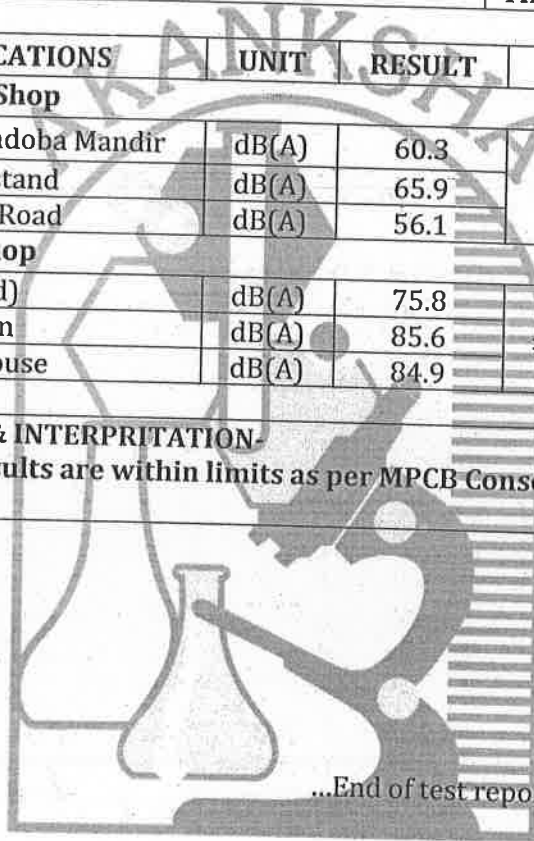
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-538/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/09/21-22
Sample Location	Company Premises	Inward Date	20/11/2021
Sample Collected By	AARL	Sampling Time	04:00 PM To 04:30 PM
		Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Khandoba Mandir	dB(A)	60.3	≤ 75 dB(A)	IS 4762-1968 (PART 10) RA 2002
2.	Near Bas stand	dB(A)	65.9		
3.	Chichagai Road	dB(A)	56.1		
B. Inside of Shop					
4.	Boiler (old)	dB(A)	75.8	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Mill Section	dB(A)	85.6		
6.	Boiling House	dB(A)	84.9		

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)



...End of test report...


Authorized Signatory

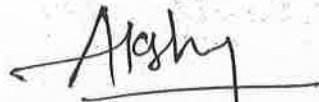



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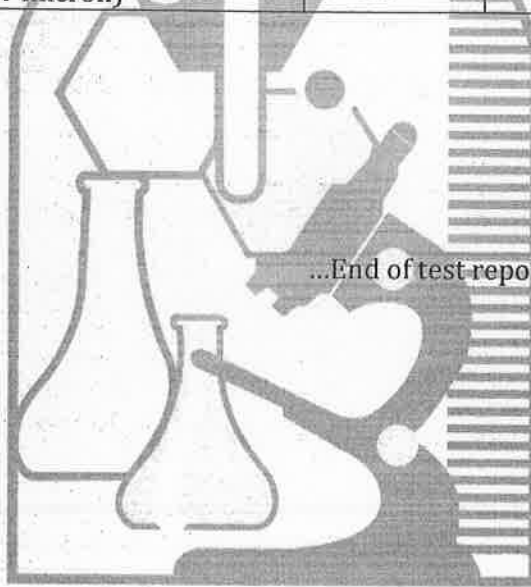
ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/62-535/21-22
		Report Date	29/11/2021
		Inward No	AL/7-287/06/21-22
		Inward Date	20/11/2021
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	02:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	82.13	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.45	IS:5182(Part-23):2006


Verified by
(Analyst)


Authorized Signatory

...End of test report...





AKANKSHA ANALYTICAL & RESEARCH LAB

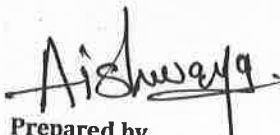
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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-357/2021-22
Sample Testing Location Laboratory		Report Date 03/01/2022
Sample Detail ETP Outlet		Inward No 12-465
Sample Collected By Party		Inward Date 26/12/2021
Sample Volume 3000 ml		Analysis Start date 28/12/2021
		Analysis End date 31/12/2021
		Sample Condition Fit For Analysis


Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	----	8.10	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	80.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	241	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	13.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1139	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	134	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	6.87	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

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- ❖ Sample will be preserve for seven days after analysis.
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- ❖ All the test conducted at permanent location not at out source
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- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

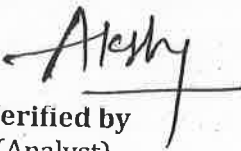
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/63-098/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/03/21-22
		Inward Date	25/12/2021
Sample Location	North East- Mr. Ramesh Gaikwad (Civil) House	Sampling Time	11:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	28.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.33	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	15.21	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	60.12	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	20.14	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.01	≤ 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	01.13	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,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)


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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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-097/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/02/21-22
		Inward Date	25/12/2021
Sample Location	South West -Mr.Balasaheb Dhobale House (Dhobale Mala)	Sampling Time	11:15 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	28.3	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.36	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	56.94	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.12	≤ 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	00.96	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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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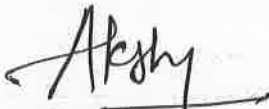
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/63-096/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/01/21-22
		Inward Date	25/12/2021
Sample Location	South East -Zap vasti Near school	Sampling Time	10:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	28.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	51	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.82	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	53.69	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.12	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.91	≤ 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	01.23	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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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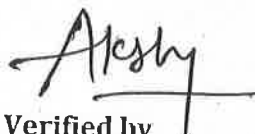
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-099/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/04/21-22
		Inward Date	25/12/2021
Sample Location	North west - Taniskha Mangal Karyalaya	Sampling Time	11:45 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	28.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	18.56	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	62.25	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.87	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.39	≤ 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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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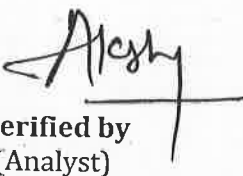
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-100/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/05/21-22
		Inward Date	25/12/2021
Sample Location	Kata Gate (Company Premises)	Sampling Time	11:55 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	28.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.31	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	15.69	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	77.45	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.96	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.28	≤ 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	01.57	≤ 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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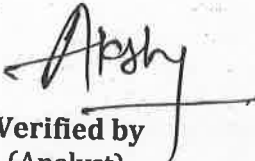
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-102/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/07/21-22
		Inward Date	25/12/2021
Sample Location	Old Boiler (37 T/hr)	Sampling Time	01:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	121.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.45	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.95	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	271906.45	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	120.13	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	94.12	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	122.14	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2614.25	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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-103/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/08/21-22
		Inward Date	25/12/2021
Sample Location	New Boiler (80T/hr)	Sampling Time	02:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	138.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.81	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.51	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	192937.09	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	136.48	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1493.12	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	279.57	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2645.78	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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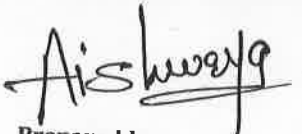
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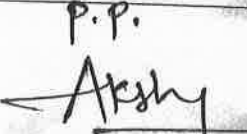
TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-351/2021-22
Sample Testing Location Laboratory		Report Date 03/01/2022
Sample Detail Borewell Water-Tanishak Mangal Karyalay-North West		Inward No 12-459
Sample Collected By Party		Inward Date 26/12/2021
		Analysis Start date 28/12/2021
		Analysis End date 31/12/2021
		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.01	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1380	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.30	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	897	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	74.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	485	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	410	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	60.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	62.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	57.8	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	1.48	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadami-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-352/2021-22
Sample Testing Location		Report Date 03/01/2022
Sample Detail		Inward No 12-460
Sample Collected By		Inward Date 26/12/2021
Laboratory		Analysis Start date 28/12/2021
Borewell Water-Vinayak Jadhav Zap wasti-South east		Analysis End date 31/12/2021
Party		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.02	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1454	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.96	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	945	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	149	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	182	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	420	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	148	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	12.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	130	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	1.59	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Ashy
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/44-353/2021-22
Sample Testing Location		Report Date	03/01/2022
Laboratory		Inward No	12-461
Sample Detail		Inward Date	26/12/2021
Well Water-Ramesh Gaikwad- North east		Analysis Start date	28/12/2021
Sample Collected By		Analysis End date	31/12/2021
Party		Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.01	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1737	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.64	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1129	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	154	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	707	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	420	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	56.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	67.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	86.9	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	1.62	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

P.P.

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadso)

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-354/2021-22
Sample Testing Location	Laboratory	Report Date 03/01/2022
Sample Detail	Well Water-Balasaheb Dhoble- South west	Inward No 12-462
Sample Collected By	Party	Inward Date 26/12/2021
		Analysis Start date 28/12/2021
		Analysis End date 31/12/2021
		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.01	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1285	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.04	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	835	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	74.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	384	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	450	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	104	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	45.6	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	58.4	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	1.68	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.07	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Alesh
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...

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Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-355/2021-22
Sample Testing Location Laboratory		Report Date 03/01/2022
Sample Detail River Water		Inward No 12-463
Sample Collected By Party		Inward Date 26/12/2021
		Analysis Start date 28/12/2021
		Analysis End date 31/12/2021
		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.02	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	808	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	9.54	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	525	≤500	Electrometric Method
7.	Chlorides as Cl	mg/lit	44.7	≤250	IS 3025 (Part 16) RA 2012
8.	Total Alkalinity as CaCO ₃	mg/lit	263	≤250	Gravimetric method
9.	Total Hardness as CaCO ₃	mg/lit	260	≤200	IS3025(Part-32) RA 2009
10.	Calcium as Ca	mg/lit	48.0	≤200	Argentometric Method
11.	Magnesium as Mg	mg/lit	33.6	≤75.0	IS3025(Part-21) RA 2014
12.	Sulphate as SO ₄ ²⁻	mg/lit	20.1	≤30.0	EDTA Titrimetric method
13.	Nitrate as NO ₃	mg/lit	1.49	≤200	IS3025(Part-40) RA 2009
14.	Iron as Fe	mg/lit	0.12	≤45.0	EDTA Method
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	APHA 23 rd Edition 2017 3500- Mg B
16.	Fecal Coliform	MPN/100ml	Present	Absent	Calculation method
17.	E- Coli	MPN/100ml	Present	Absent	APHA 23 rd Edition 2017 4500-E-SO ₄ ²⁻
					APHA 23 rd Edition 2017 4500-B-NO ₃
					IS3025(Part-53)

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Apsy
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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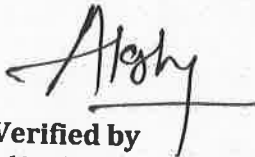
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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-104/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/09/21-22
		Inward Date	25/12/2021
Sample Location	Company Premises	Sampling Time	03:00 PM To 03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Petrol	dB(A)	73.6	≤ 75 dB(A)	IS 4763-1968 (PART 10) RA 2002
2.	Near Sakhar Shala	dB(A)	72.9		
3.	Near Collage	dB(A)	72.1		
B. Inside of Shop					
4.	Near Workshop	dB(A)	82.5	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near New Boiler	dB(A)	88.1		
6.	Near Godown	dB(A)	78.6		

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...

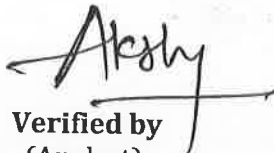



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-101/21-22
		Report Date	03/01/2022
		Inward No	AL/7-327/06/21-22
		Inward Date	25/12/2021
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	80.78	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.95	IS:5182(Part-23):2006


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/44-920/2021-22
Sample Testing Location Laboratory		Report Date 01/02/2022
Sample Detail ETP Outlet		Inward No 1-491
Sample Collected By Party		Inward Date 25/01/2022
Sample Volume 3000 ml		Analysis Start date 27/01/2022
		Analysis End date 31/01/2022
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	8.19	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	26.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	79.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	5.00	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	BDL	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1294	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	90.0	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	656	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

- ❖ 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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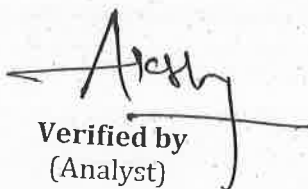
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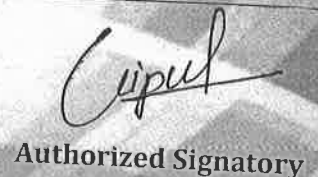
ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-618/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/02/21-22
		Inward Date	23/01/2022
Sample Location	East Side -Near Amantran hotel	Sampling Time	10:48 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.8		
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.48	≤ 80	EPA -454/R-99-005
4.	Oxides of Nitrogen (NO _x)	µg/m ³	19.54	≤ 80	IS:5182(Part-2):2001
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	60.12	≤ 100	IS:5182(Part-6):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	19.59	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.47	≤ 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	01.36	≤ 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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-620/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/04/21-22
		Inward Date	23/01/2022
Sample Location	West Side- Pandurang Dhobale	Sampling Time	11:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.49	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	58.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	20.32	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.12	≤ 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	01.09	≤ 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...



AKANKSHA ANALYTICAL & RESEARCH LAB

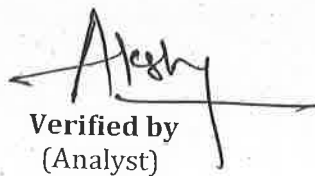
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/63-617/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/01/21-22
		Inward Date	23/01/2022
Sample Location	South Side-Yogesh Pingale	Sampling Time	11:05 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.22	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	56.89	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.14	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.41	≤ 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	00.96	≤ 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...



AKANKSHA ANALYTICAL & RESEARCH LAB

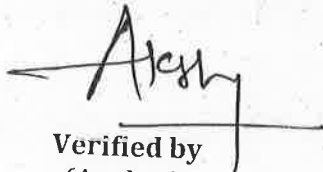
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- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/63-619/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/03/21-22
		Inward Date	23/01/2022
Sample Location	North Side- Sachin Dhobale	Sampling Time	11:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	48	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	09.81	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	57.96	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.78	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.41	≤ 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	00.98	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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...



AKANKSHA ANALYTICAL & RESEARCH LAB

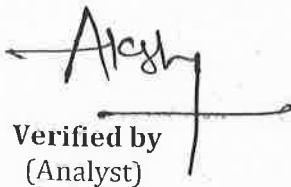
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- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-621/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/05/21-22
Sample Location	Main Gate (Company Premises)	Inward Date	23/01/2022
Sample Collected By	AARL	Sampling Time	12:00 PM
		Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	47	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.91	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	65.46	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.25	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.39	≤ 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	01.53	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,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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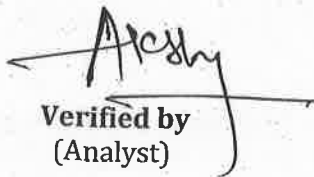
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-623/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/07/21-22
		Inward Date	23/01/2022
Sample Location	Old Boiler (37 T/hr)	Sampling Time	01:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	115.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.56	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.98	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	277366.61	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	125.89	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	91.23	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	126.21	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2678.41	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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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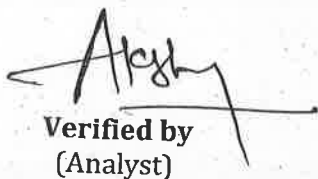
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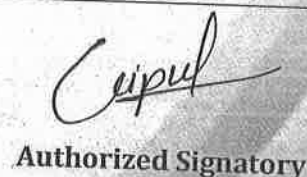
SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-624/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/08/21-22
		Inward Date	23/01/2022
Sample Location	New Boiler (80T/hr)	Sampling Time	02:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	131.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.91	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.54	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	197138.68	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	140.12	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1512.65	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	275.86	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2656.41	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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/44-921/2021-22
		Report Date	01/02/2022
		Inward No	1-494
		Inward Date	25/01/2022
Sample Testing Location	Laboratory	Analysis Start date	27/01/2022
Sample Detail	Borewell water-Pandurang Dhoble- West side	Analysis End date	31/01/2022
		Sample Condition	Fit For Analysis
Sample Collected By	Party	Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.25	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	693	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.98	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	451	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	28.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	185	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	220	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	54.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	20.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	19.2	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	3.17	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...

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Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/44-924/2021-22
		Report Date	01/02/2022
		Inward No	1-497
		Inward Date	25/01/2022
Sample Testing Location	Laboratory	Analysis Start date	27/01/2022
Sample Detail	Well Water-Yogesh bhimaji pingale- South side	Analysis End date	31/01/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	---	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.34	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	778	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.41	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	506	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	36.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	217	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	180	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	30.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	25.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	26.0	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.22	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/44-923/2021-22
		Report Date	01/02/2022
		Inward No	1-496
		Inward Date	25/01/2022
Sample Testing Location	Laboratory	Analysis Start date	27/01/2022
Sample Detail	Well Water-Bharat Dhobale- North side	Analysis End date	31/01/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour		Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.31	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOS/cm	812	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C		8.99	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	528	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	48.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	221	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	224	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	68.8	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	17.3	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	32.3	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	3.56	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation – Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

Vipul
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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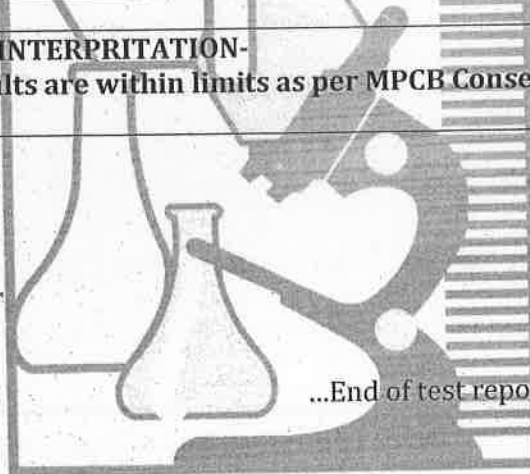
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-625/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/09/21-22
		Inward Date	23/01/2022
Sample Location	Company Premises	Sampling Time	03:00 PM To 03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Petrol Pump	dB(A)	72.9	≤ 75 dB(A)	IS 4763-1968 (PART 10) RA 2002
2.	Near Khandoba Temple	dB(A)	72.0		
3.	Near Guest House	dB(A)	68.2		
B. Inside of Shop					
4.	Near Mill House	dB(A)	81.8	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Boiler No-2	dB(A)	85.6		
6.	Near Boiling House	dB(A)	79.7		

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)



...End of test report...


Authorized Signatory




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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/63-622/21-22
		Report Date	01/02/2022
		Inward No	AL/7-378/06/21-22
		Inward Date	23/01/2022
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	83.26	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.12	IS:5182(Part-23):2006


Verified by
(Analyst)


Authorized Signatory

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-479/2021-22
		Report Date	04/03/2022
		Inward No	2-454
		Inward Date	25/02/2022
Sample Testing Location	Laboratory	Analysis Start date	26/02/2022
Sample Detail	ETP Outlet	Analysis End date	03/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	3000 ml		

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	----	7.85	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	52.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	160	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	95.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	6.00	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1597	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	25.0	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	212	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

- ❖ 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

P.P.
Aresh
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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भीमाशंकर सहकारी साखर कारखाना लि.
पत्र आतक मं. ३४६५
दिनांक - १२ / ३ / २०२२


ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/64-088/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/01/21-22
		Inward Date	24/02/2022
Sample Location	East side-Shri. shankar Shinde House	Sampling Time	11:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.5	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	12.37	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.82	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.01	≤ 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	01.21	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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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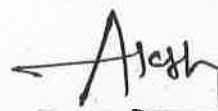
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No AL/TR/64-089/21-22
		Report Date 04/03/2022
		Inward No AL/7-413/02/21-22
		Inward Date 24/02/2022
Sample Location	West side- Shri. Dhondiram Pingale House	Sampling Time 12:15 PM
Sample Collected By	AARL	Time duration 08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.5	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	12.29	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.72	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.46	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.96	≤ 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	00.95	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/64-090/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/03/21-22
		Inward Date	24/02/2022
Sample Location	North Side- Shri Balasaheb Dhobale House	Sampling Time	12:28 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	31.7	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	33	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.12	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.41	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	53.26	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.45	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.44	≤ 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	00.91	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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...



AKANKSHA ANALYTICAL & RESEARCH LAB

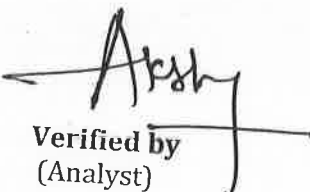
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-091/21-2
		Report Date	04/03/2022
		Inward No	AL/7-413/04/21-22
		Inward Date	24/02/2022
Sample Location	South side - Shri Pandurang Walase House	Sampling Time	01:15 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	30	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.14	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.92	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	54.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.87	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	18.10	≤ 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	01.02	≤ 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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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/44-922/2021-22
		Report Date	01/02/2022
		Inward No	1-495
		Inward Date	25/01/2022
Sample Testing Location	Laboratory	Analysis Start date	27/01/2022
Sample Detail	Borewell Water-Ramesh Jadhav- East side	Analysis End date	31/01/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.45	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	2118	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.25	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1377	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	45.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	302	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	650	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	176	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	50.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	411	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.88	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/44-925/2021-22
Sample Testing Location		Report Date	01/02/2022
Laboratory		Inward No	AL/W/01-08/1/2021-22
Sample Detail		Inward Date	25/01/2022
Ground water-ramdas cahvan well water- East side		Analysis Start date	27/01/2022
Sample Collected By		Analysis End date	31/01/2022
Party		Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.28	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	804	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.37	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	517	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	41.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	221	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	194	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	34.7	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	27.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	24.0	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	4.31	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...

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Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com



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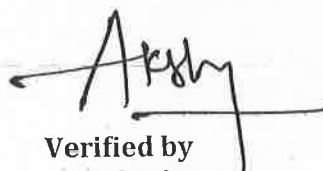
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-092/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/05/21-22
		Inward Date	24/02/2022
Sample Location	Kata Gate (Company Premises)	Sampling Time	02:05 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	29	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.36	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	15.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	75.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.98	≤ 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	01.62	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 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...



AKANKSHA ANALYTICAL & RESEARCH LAB

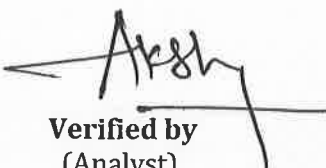
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-094/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/07/21-22
		Inward Date	24/02/2022
Sample Location	Old Boiler (37 T/hr)	Sampling Time	03:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	125.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.30	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.85	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	265937.95	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	115.63	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	94.12	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	120.14	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2589.36	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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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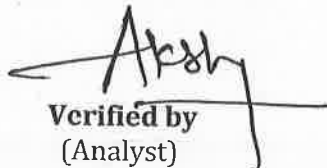
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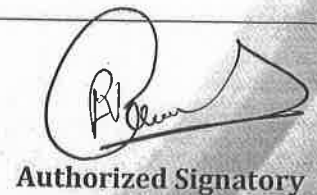
SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-095/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/08/21-22
		Inward Date	24/02/2022
Sample Location	New Boiler (80T/hr)	Sampling Time	03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	138.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.68	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.38	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	189616.95	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	133.25	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1491.45	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	273.56	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2638.12	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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-481/2021-22
		Report Date	04/03/2022
		Inward No	2-456
		Inward Date	25/02/2022
Sample Testing Location	Laboratory	Analysis Start date	26/02/2022
Sample Detail	East side Well water- Shri Ramesh Gaikwad	Analysis End date	03/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.73	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1747	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.23	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1136	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	115	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	603	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	410	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	76.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	52.8	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	105	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	8.44	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report



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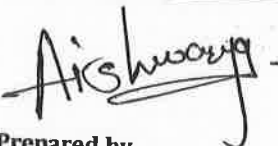
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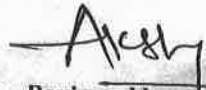
TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-482/2021-22
		Report Date	04/03/2022
		Inward No	2-457
		Inward Date	25/02/2022
Sample Testing Location	Laboratory	Analysis Start date	26/02/2022
Sample Detail	West side Well Water- Shri. Dhondiram Pingale	Analysis End date	03/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.69	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1620	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.34	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1053	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	105	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	432	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	520	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	56.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	91.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	68.1	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	11.0	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)

P.P.

Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report

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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-480/2021-22
		Report Date	04/03/2022
Sample Testing Location	Laboratory	Inward No	2-455
		Inward Date	25/02/2022
Sample Detail	South side Well Water- Shri Pandurang Walase	Analysis Start date	26/02/2022
		Analysis End date	03/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.80	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	2161	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	----	8.22	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1140	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	120	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	342	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	640	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	136	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	72.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	525	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	13.3	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.07	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ N.S. Not Specified
- ❖ Opinion and Interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-483/2021-22
		Report Date	04/03/2022
		Inward No	2-458
		Inward Date	25/02/2022
Sample Testing Location	Laboratory	Analysis Start date	26/02/2022
Sample Detail	North Side Borewell water- Shri Balasaheb Dhoble	Analysis End date	03/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.09	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	648	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.41	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	421	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	30.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	201	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	190	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	48.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	16.8	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	12.4	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	11.8	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

P.P.
Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-487/2021-22
Sample Testing Location		Report Date	04/03/2022
Laboratory		Inward No	AL/W/02-21/1/2021-22
Sample Detail		Inward Date	25/02/2022
South Side Borewell water- Shri Yogesh Dhoble		Analysis Start date	26/02/2022
Sample Collected By		Analysis End date	03/03/2022
Party		Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.39	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1648	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.41	6.5 to 8.5	IS 3025 (Part 11) RA 2012
6.	Total Dissolved Solids	mg/lit	921	≤500	Electrometric Method
7.	Chlorides as Cl	mg/lit	63.0	≤250	IS 3025 (Part 16) RA 2012 Gravimetric method
8.	Total Alkalinity as CaCO ₃	mg/lit	301	≤200	IS3025(Part-32) RA 2009 Argentometric Method
9.	Total Hardness as CaCO ₃	mg/lit	490	≤200	IS3025(Part-23)RA 2009
10.	Calcium as Ca	mg/lit	148	≤75.0	IS3025(Part-21) RA 2014 EDTA Titrimetric method
11.	Magnesium as Mg	mg/lit	56.8	≤30.0	IS3025(Part-40) RA 2009 EDTA Method
12.	Sulphate as SO ₄ ²⁻	mg/lit	62.4	≤200	APHA 23 rd Edition 2017 3500- Mg B Calculation method
13.	Nitrate as NO ₃	mg/lit	10.5	≤45.0	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
14.	Iron as Fe	mg/lit	0.07	≤0.3	APHA 23 rd Edition 20174500-B-NO ₃ IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ Sample will be preserve for seven days after analysis.
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...

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Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com



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AMBIENT & WORK ZONE NOISE LEVEL MONITORING 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-412 406		Report No	AL/TR/64-096/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/09/21-22
		Inward Date	24/02/2022
Sample Location	Company Premises	Sampling Time	04:00 PM To 04:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Petrol Pump	dB(A)	65.9	≤ 75 dB(A)	IS 4764-1968 (PART 10) RA 2002
2.	Near Bas stand	dB(A)	68.2		
3.	Main Gate	dB(A)	64.7		
B. Inside of Shop					
4.	Boiler (old)	dB(A)	82.3	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Sugar House	dB(A)	78.1		
6.	Near Gavhan	dB(A)	76.5		

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...

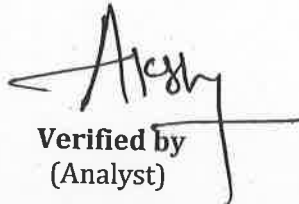


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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-093/21-22
		Report Date	04/03/2022
		Inward No	AL/7-413/06/21-22
		Inward Date	24/02/2022
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	02:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	83.69	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.21	IS:5182(Part-23):2006


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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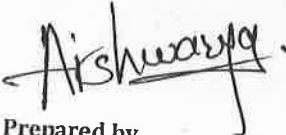
TEST REPORT


NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	Page 1 of 1
Sample Testing Location		Report Date	AL/TR/45-971/2022-23
Sample Detail		Inward No	04/04/2022
Sample Collected By		Inward Date	3-456
Sample Volume		Analysis Start date	27/03/2022
Laboratory		Analysis End date	28/03/2022
ETP Outlet		Sample Condition	31/03/2022
Party			Fit For Analysis
3000 ml			

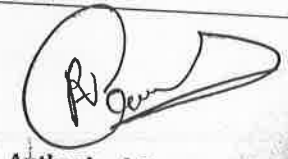
Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.87	5.5 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	80.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	221	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	13.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	6.00	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1598	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	128	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	335	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

- ❖ 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

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भीमाशंकर सहकारी साखर कारखाना
कारखाना नं. २४
दिनांक - १३/४/२०२२

[Signature]

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/64-605/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/01/22-23
		Inward Date	27/03/2022
Sample Location	East side-Shri. Pavan Walase House	Sampling Time	10:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	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	12.21	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	14.75	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	46.32	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	16.39	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.86	≤ 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	01.19	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 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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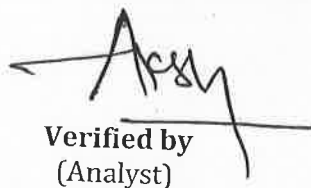
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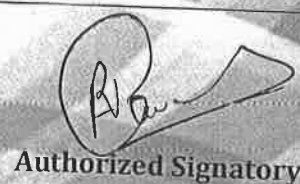
ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-606/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/02/22-23
		Inward Date	27/03/2022
Sample Location	West side- Shri. Balasaheb Wavhare House	Sampling Time	10:00 AM
Sample Collected By	AARL	Time duration	08 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	36	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.21	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	09.65	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.70	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.23	≤ 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	01.02	≤ 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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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-608/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/04/22-23
		Inward Date	27/03/2022
Sample Location	South side - Shri Balasaheb kasabe House	Sampling Time	10:20 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.1	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	33	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.16	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.01	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.36	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.91	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.78	≤ 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	01.12	≤ 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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/64-607/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/03/22-23
		Inward Date	27/03/2022
Sample Location	North Side- Shri Sushant Sonavane House	Sampling Time	10:10 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	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	09.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	10.35	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.02	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	17.31	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.57	≤ 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	00.96	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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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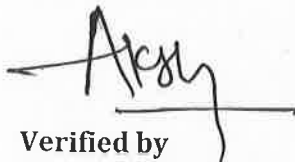
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-609/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/05/22-23
		Inward Date	27/03/2022
Sample Location	Main Gate (Company Premises)	Sampling Time	10:40 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.1	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	32	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.31	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	62.87	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.96	≤ 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	01.59	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,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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SOURCE EMISSION MONITORING 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-412 406		Report No	AL/TR/64-611/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/07/22-23
		Inward Date	27/03/2022
Sample Location	Old Boiler (37 T/hr)	Sampling Time	01:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	128.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.35	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.93	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	266477.20	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	113.21	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	91.58	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	122.01	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2593.20	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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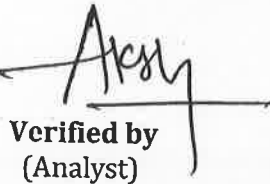
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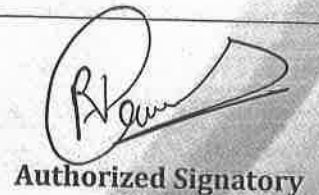
SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-612/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/08/22-23
		Inward Date	27/03/2022
Sample Location	New Boiler (80T/hr)	Sampling Time	02:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	135.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.76	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.43	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	192370.29	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	131.85	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1396.28	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	271.47	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2635.62	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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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/45-967/2022-23
Sample Testing Location Laboratory		Report Date 04/04/2022
Sample Detail Well Water-Pavan Valse-East Side		Inward No 3-452
Sample Collected By Party		Inward Date 27/03/2022
		Analysis Start date 28/03/2022
		Analysis End date 31/03/2022
		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.30	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	1790	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.81	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1164	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	103	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	493	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	414	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	52.5	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	67.9	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	221	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	6.63	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.06	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya
Prepared by
(Aishwarya Bobade)

P.P.
Akshy
Reviewed by
(Vipul Waghmare)

Karuna
Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-969/2022-23
Sample Testing Location		Report Date	04/04/2022
Sample Detail		Inward No	3-454
Sample Collected By		Inward Date	27/03/2022
Laboratory		Analysis Start date	28/03/2022
Borewell Water-Navnath Mhetre-North Side		Analysis End date	31/03/2022
Party		Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.39	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2073	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.08	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1351	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	113	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	558	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	515	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	101	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	63.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	389	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	14.8	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-966/2022-23
		Report Date	04/04/2022
		Inward No	3-451
		Inward Date	27/03/2022
Sample Testing Location	Laboratory	Analysis Start date	28/03/2022
Sample Detail	Borewell Water-Balasaheb Wavre-West Side	Analysis End date	31/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.32	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1783	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.50	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1159	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	98.5	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	471	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	424	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	56.6	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	67.9	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	297	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	22.9	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
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- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation – Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

P.P. Aishy

Reviewed by
(Vipul Waghmare)

(Mrs. Karuna Kadam-Dhadse)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...

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Bibvewadi, Pune 411037. | Phone : 020-24240030 | Email : akankshalab2007@gmail.com



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-965/2022-23
		Report Date	04/04/2022
		Inward No	3-450
		Inward Date	27/03/2022
Sample Testing Location	Laboratory	Analysis Start date	28/03/2022
Sample Detail	Borewell water-Santosh Kasbe- South Side	Analysis End date	31/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.25	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1715	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.93	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1115	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	128	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	328	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	667	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	125	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	84.8	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	219	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	2.96	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.05	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/45-968/2022-23
		Report Date	04/04/2022
		Inward No	3-453
		Inward Date	27/03/2022
Sample Testing Location	Laboratory	Analysis Start date	28/03/2022
Sample Detail	Borewell water-Sushant Sonawane-North Side	Analysis End date	31/03/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.45	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	2223	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.27	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1445	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	128	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	536	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	505	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	121	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	48.5	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	383	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	17.1	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.07	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by
(Aishwarya Bobade)

Reviewed by
(Vipul Waghmare)

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



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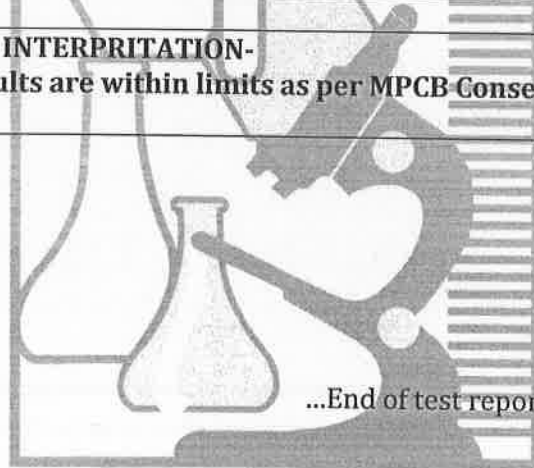
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-613/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/09/22-23
		Inward Date	27/03/2022
Sample Location	Company Premises	Sampling Time	03:00 PM To 03:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Guest House	dB(A)	64.3	≤ 75 dB(A)	IS 4764-1968 (PART 10) RA 2002
2.	Near karkhana colony	dB(A)	62.5		
3.	Near Bagasse	dB(A)	67.6		
B. Inside of Shop					
4.	Boiler No-3	dB(A)	73.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Sakhar shala	dB(A)	70.9		
6.	Near godawan	dB(A)	69.7		

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)



...End of test report...


Authorized Signatory

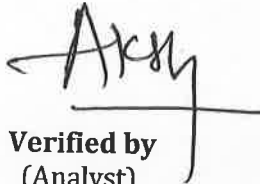


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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/64-610/22-23
		Report Date	04/04/2022
		Inward No	AL/7-453/06/22-23
		Inward Date	27/03/2022
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	10:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	81.96	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.78	IS:5182(Part-23):2006


Verified by
(Analyst)


Authorized Signatory

...End of test report...



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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/46-521/2022-23
Sample Testing Location Laboratory		Report Date 06/05/2022
Sample Detail ETP Outlet		Inward No 4-469
Sample Collected By Party		Inward Date 26/04/2022
Sample Volume 3000 ml		Analysis Start date 28/04/2022
		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	8.06	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit	30.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit	145	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit	35.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit	1.00	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit	1295	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	88.1	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit	135	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

- ❖ 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 sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

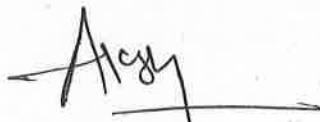
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/65-045/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/01/22-23
		Inward Date	26/04/2022
Sample Location	East side-Shri. Sopan Jadhav House	Sampling Time	12:18 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	26	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.20	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	16.18	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.96	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.96	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.91	≤ 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	02.05	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-046/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/02/22-23
		Inward Date	26/04/2022
Sample Location	West side- Shri. Ganesh Borge House	Sampling Time	12:41 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	24	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.96	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	12.47	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	44.02	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.30	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.22	≤ 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	02.41	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method) Method Of Air Sampling, 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)


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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/65-047/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/03/22-23
		Inward Date	26/04/2022
Sample Location	North Side- Shri Suresh Bohradhe House	Sampling Time	02:20 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	26	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.99	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.52	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	46.13	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	19.88	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.07	≤ 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	01.57	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,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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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-048/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/04/22-23
		Inward Date	26/04/2022
Sample Location	South side - Shri Mahesh Shinde House	Sampling Time	03:27 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	24	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.85	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	11.57	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	43.76	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	18.10	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.41	≤ 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	02.01	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 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 Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-049/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/05/22-23
		Inward Date	26/04/2022
Sample Location	Kata Gate (Company Premises)	Sampling Time	02:40 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	26	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.59	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	24.63	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	68.77	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.60	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	17.00	≤ 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	02.87	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,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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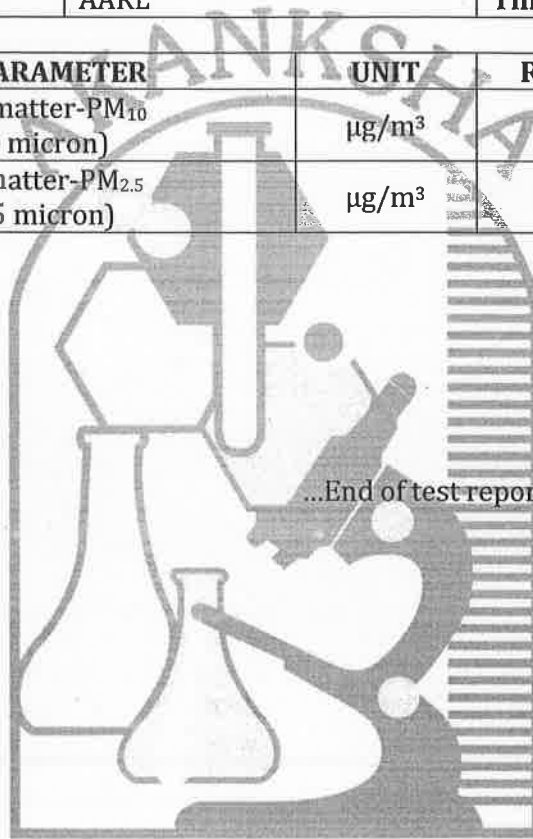
ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-050/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/06/22-23
		Inward Date	26/04/2022
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	02:49 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	91.24	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	32.41	IS:5182(Part-23):2006


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SOURCE EMISSION MONITORING 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-412 406		Report No	AL/TR/65-051/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/07/22-23
		Inward Date	26/04/2022
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	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	142.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.87	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	08.53	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	275158.40	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	104.17	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	128.70	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	108.96	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2428.17	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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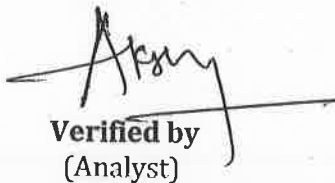
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-052/22-23
		Report Date	04/05/2022
		Inward No	AL/7-496/08/22-23
		Inward Date	26/04/2022
Sample Location	New Boiler (80T/hr)	Sampling Time	02:20 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	142.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.12	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.85	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	199663.52	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	124.05	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1341.23	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	252.02	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2578.11	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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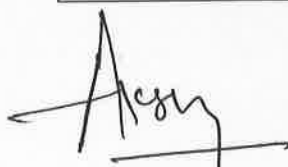
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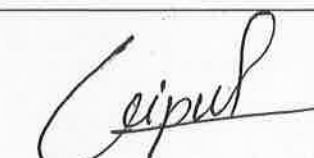
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1		
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/65-053/22-23	
		Report Date	04/05/2022	
		Inward No	AL/7-496/09/22-23	
Sample Location		Company Premises	Inward Date	26/04/2022
Sample Collected By		AARL	Sampling Time	03:20 PM To 03:50 PM
			Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Kopi yard	dB(A)	62.7	≤ 75 dB(A)	IS 4764-1968 (PART 10) RA 2002
2.	Near Canteen	dB(A)	58.3		
3.	South yard	dB(A)	64.5		
B. Inside of Shop					
4.	Near Mill House	dB(A)	76.4	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Spray Pond	dB(A)	67.2		
6.	Near Building House	dB(A)	63.1		

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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TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/46-515/2022-23
Sample Testing Location		Report Date 06/05/2022
Laboratory		Inward No 4-463
Sample Detail		Inward Date 26/04/2022
Sample Collected By		Analysis Start date 28/04/2022
Party		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.29	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	352	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.13	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	229	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	9.78	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	100	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	113	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	24.7	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	12.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	6.72	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	14.5	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.04	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is not within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the tests conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Aishwarya

Prepared by
(Aishwarya Bobade)

Vipul

Reviewed by
(Vipul Waghmare)

Karuna

Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

End of test report

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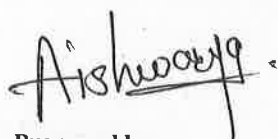
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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/46-516/2022-23
		Report Date	06/05/2022
		Inward No	4-464
		Inward Date	26/04/2022
Sample Testing Location	Laboratory	Analysis Start date	28/04/2022
Sample Detail	Well Water-Mahesh Shinde- South side	Analysis End date	02/05/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml


Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.27	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	295	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.95	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	192	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	9.78	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	93.5	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	86.5	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	22.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	7.42	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	5.49	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	14.4	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Absent	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ As per Specified above analysis water sample is within the desirable limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results are related to sample as tested.
- ❖ All the test conducted at permanent location not at out source
- ❖ The contents of this test report shall not be reproduced in part or without written approval of lab incharge.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

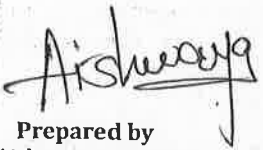
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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/46-517/2022-23
		Report Date	06/05/2022
		Inward No	4-465
		Inward Date	26/04/2022
Sample Testing Location	Laboratory	Analysis Start date	28/04/2022
Sample Detail	Borewell Water-Sopan Jadhav- East side	Analysis End date	02/05/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml


Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.63	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	2341	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.96	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1522	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	68.5	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	231	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	422	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	78.3	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	54.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	303	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	2.71	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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End of test report.



AKANKSHA ANALYTICAL & RESEARCH LAB

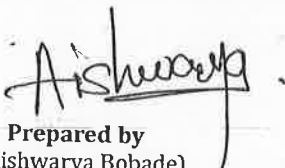
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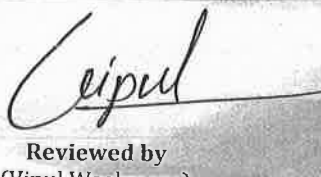
TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No AL/TR/46-518/2022-23
Sample Testing Location Laboratory		Report Date 06/05/2022
Sample Detail Borewell water-Suresh Borhade- North Side		Inward No 4-466
Sample Collected By Party		Inward Date 26/04/2022
		Analysis Start date 28/04/2022
		Analysis End date 02/05/2022
		Sample Condition Fit For Analysis
		Sample Volume 2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.54	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1449	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.44	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	942	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	73.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	392	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	381	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	37.1	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	69.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	50.6	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	1.72	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable


Prepared by
(Aishwarya Bobade)


Reviewed by
(Vipul Waghmare)


Authorized Signatory
(Mrs. Karuna Kadam-Dhadse)

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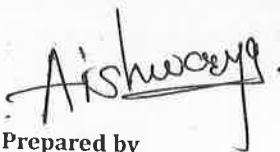
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TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/46-519/2022-23
		Report Date	06/05/2022
		Inward No	4-467
		Inward Date	26/04/2022
Sample Testing Location	Laboratory	Analysis Start date	28/04/2022
Sample Detail	Well Water-Ganesh Borge- West side	Analysis End date	02/05/2022
Sample Collected By	Party	Sample Condition	Fit For Analysis
		Sample Volume	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	-	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.71	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1735	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.37	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1128	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	108	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	452	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	319	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	45.3	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	49.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄ ²⁻	mg/lit	256	≤200	APHA23 rd Edition 20174500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	13.5	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

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