



# AKANKSHA ANALYTICAL & RESEARCH LAB

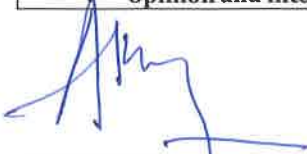
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization


TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-973/2022-23
		<b>Report Date</b>	29/11/2022
		<b>Inward No</b>	11-216
		<b>Inward Date</b>	24/11/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	ETP Inlet	<b>Analysis End date</b>	28/11/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	4.49	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	25000	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	74380	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	196	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.80	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	5996	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	306	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	352	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### REMARK-

- ❖ 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  
(Mr.Akshay Khot)

  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-974/2022-23
		<b>Report Date</b>	29/11/2022
		<b>Inward No</b>	11-217
		<b>Inward Date</b>	24/11/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	ETP Outlet	<b>Analysis End date</b>	28/11/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.67	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	70.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	182	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	82.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	<1.00	≤10.0	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1352	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	170	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	308	≤1000	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### 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

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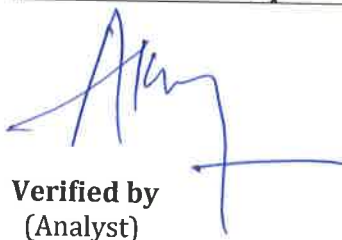
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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-385/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/07/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	Old Boiler (37 T/hr)	<b>Sampling Time</b>	01:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	12.56	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	° C	119.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.29	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.78	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	267653.69	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	110.5	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	89.52	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	121.04	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2411.10	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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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-386/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/08/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	New Boiler (80T/hr)	<b>Sampling Time</b>	02:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	09.83	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	°C	132.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.66	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.31	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	190496.58	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	128.7	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1378.22	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	264.2	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2585.5	N.S.	IS 13270 :1992

## REMARK, OPINION & INTERPRITATION-

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/68-381/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/03/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	East Side- Mr. Ramesh Gaikwad	<b>Sampling Time</b>	12:15 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.9	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	37	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	10.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	15.65	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	57.84	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	18.56	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.78	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.09	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-382/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/04/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	West side- Shri. Nivruthi Dhobale House	<b>Sampling Time</b>	11:40 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.4	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	12.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	09.89	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	58.47	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	18.02	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.21	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	00.93	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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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भीमाशंकर सहकारी साखर कारखाना लि.  
पत्र आवक नं. २०८२  
दिनांक - १६/१२/२०२२  
सही

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/68-379/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/01/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	South side - Shri Pandurang Walase House	<b>Samplng Time</b>	11:30 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.4	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	12.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	10.20	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	51.78	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	19.04	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.10	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.12	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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.
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- ❖ N.S. -Not Specified

Verified by  
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Authorized Signatory

...End of test report...



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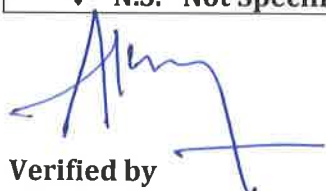
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<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-380/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/02/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	North Side-Yogesh Pingale	<b>Sampling Time</b>	12:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	38	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.37	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	11.45	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	50.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	19.10	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.47	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	00.91	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	BDL	≤ 20	IS:3025 (PART-54) 2003

## REMARK, OPINION & INTERPRITATION-

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-383/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/05/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	Main Gate (Company Premises)	<b>Sampling Time</b>	11:50 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.6	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	40	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	18.91	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	17.02	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	64.56	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	24.12	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.26	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.52	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-982/2022-23
		<b>Report Date</b>	01/12/2022
		<b>Inward No</b>	11-225
		<b>Inward Date</b>	24/11/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	Well Water-Ramesh Gaikwad East	<b>Analysis End date</b>	01/12/2022
		<b>Sample Condition</b>	Fit For Analysis
<b>Sample Collected By</b>	Party	<b>Sample Volume</b>	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.74	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	3458	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.51	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1147	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	155	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	522	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	416	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	51.5	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	68.9	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	265	≤200	APHA23 <sup>rd</sup> Edition 20174500-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	12.5	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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  
(Mr.Akshay Khot)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-984/2022-23
		<b>Report Date</b>	01/12/2022
		<b>Inward No</b>	11-227
		<b>Inward Date</b>	24/11/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	Well Water-Madan Badase (East)	<b>Analysis End date</b>	01/12/2022
		<b>Sample Condition</b>	Fit For Analysis
<b>Sample Collected By</b>	Party	<b>Sample Volume</b>	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.41	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1748	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.76	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	658	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	82.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	277	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	297	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	55.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	38.0	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	68.2	≤200	APHA23 <sup>rd</sup> Edition 20174500-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	5.90	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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

Prepared by  
(Mr.Akshay Khot)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-981/2022-23
		<b>Report Date</b>	01/12/2022
		<b>Inward No</b>	11-224
		<b>Inward Date</b>	24/11//2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	Well Water-Nivruti Dhobale (west)	<b>Analysis End date</b>	01/12/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
		<b>Sample Volume</b>	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
<b>A) PHYSICAL ANALYSIS</b>					
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>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.47	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1057	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	112	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	479	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	386	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	59.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	57.0	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	199	≤200	APHA23 <sup>rd</sup> Edition 20174500-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	12.0	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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  
(Mr.Akshay Khot)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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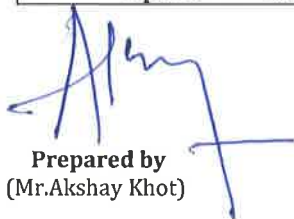
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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-980/2022-23
		<b>Report Date</b>	01/12/2022
		<b>Inward No</b>	11-223
		<b>Inward Date</b>	24/11/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	Well Water-Pandurang Walse South	<b>Analysis End date</b>	01/12/2022
		<b>Sample Condition</b>	Fit For Analysis
<b>Sample Collected By</b>	Party	<b>Sample Volume</b>	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.52	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1528	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.62	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	657	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	72.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	266	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	327	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	51.5	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	47.5	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	62.2	≤200	APHA23 <sup>rd</sup> Edition 20174500-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	5.94	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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	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  
(Mr.Akshay Khot)

  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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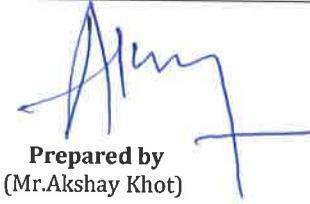
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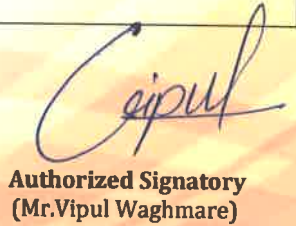
TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/48-983/2022-23
		<b>Report Date</b>	01/12/2022.
		<b>Inward No</b>	11-226
		<b>Inward Date</b>	24/11/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/11/2022
<b>Sample Detail</b>	Well Water-Yogesh Pingale North	<b>Analysis End date</b>	01/12/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
		<b>Sample Volume</b>	2250 ml

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity @ 25°C	NTU	0.13	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	3184	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.42	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1040	≤500	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	112	≤250	IS3025(Part:32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	479	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	406	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	59.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	61.8	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	192	≤200	APHA23 <sup>rd</sup> Edition 20174500-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	11.9	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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.
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- ❖ BDL-Below Detectable Limit.
- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

  
Prepared by  
(Mr.Akshay Khot)

  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



# AKANKSHA ANALYTICAL & RESEARCH LAB

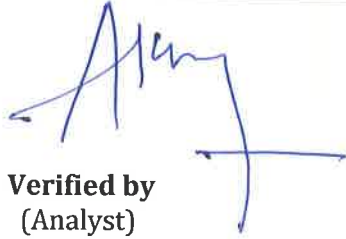
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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-387/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/09/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	Company Premises	<b>Sampling Time</b>	03:00 PM To 03:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
<b>A. Outside of Shop</b>					
1.	Near Guest House	dB(A)	61.5	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Kandoba Temple	dB(A)	58.3		
3.	Near switch yard	dB(A)	60.4		
<b>B. Inside of Shop</b>					
4.	Mill House	dB(A)	70.1	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Boiling House	dB(A)	72.3		
6.	Boiler House	dB(A)	71.2		

## 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
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/68-384/22-23
		<b>Report Date</b>	02/12/2022
		<b>Inward No</b>	AL/7-764/06/22-23
		<b>Inward Date</b>	24/11/2022
<b>Sample Location</b>	Bagasse Yard {Fugitive Sample}	<b>Sampling Time</b>	12:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	80.21	IS:5182(Part-23):2006
2.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	22.45	IS:5182(Part-23):2006

  
Verified by  
(Analyst)

  
Authorized Signatory

...End of test report...





# AKANKSHA ANALYTICAL & RESEARCH LAB

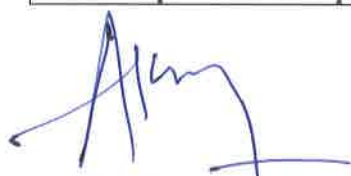
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- ISO 45001 : 2018 Certified Organization


TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-257/2022-23
		<b>Report Date</b>	30/12/2022
		<b>Inward No</b>	12-243
		<b>Inward Date</b>	26/12/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	27/12/2022
<b>Sample Detail</b>	ETP Inlet	<b>Analysis End date</b>	30/12/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	4.58	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	20000	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	60240	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	275	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	8.30	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	6005	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	119	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	1164	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### REMARK-

- ❖ 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**  
(Mr. Akshay Khot)

  
**Authorized Signatory**  
(Mr. Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-258/2022-23
		<b>Report Date</b>	30/12/2022
		<b>Inward No</b>	12-244
		<b>Inward Date</b>	26/12/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	27/12/2022
<b>Sample Detail</b>	ETP Outlet	<b>Analysis End date</b>	30/12/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	8.52	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	90.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	188	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	48.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	4.00	≤10.0	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	259	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	178	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	192	≤1000	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### 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  
(Mr. Akshay Khot)

  
Authorized Signatory  
(Mr. Vipul Waghmare)

...End of test report...



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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-222/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/07/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	Old Boiler (37 T/hr)	<b>Sampling Time</b>	01:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	12.56	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	° C	117.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.21	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.69	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	265825.3	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	108.9	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	88.96	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	118.79	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2423.36	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

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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-223/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/08/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	New Boiler (80T/hr)	<b>Sampling Time</b>	02:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	09.83	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	°C	139.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.58	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.29	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	186795.7	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	124.1	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1371.2	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	261.3	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	254.12	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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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-217/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/02/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	South East-Shri. Vishvnath Nahre House	<b>Sampling Time</b>	11:45 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.5	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	12.52	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	14.91	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	50.12	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	16.78	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.85	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.19	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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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भीमाशंकर सहकारी साखर कारखाना लि.  
पत्र आवक नं. 3992  
दिनांक - १२/०१/२०२३  
सही

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/69-216/22-23
		Report Date	03/01/2023
		Inward No	AL/7-822/01/22-23
		Inward Date	26/12/2022
Sample Location	South West -Shri. Popat Lole 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	29.3	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	10.14	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	45.63	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	17.45	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.56	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.10	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/69-218/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/03/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	North west – Taniskha Mangal Karyalaya	<b>Sampling Time</b>	12:15 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	46	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	15.87	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	18.49	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	59.84	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	19.02	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.26	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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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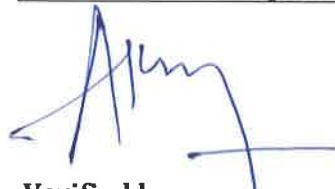
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-219/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/04/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	North East -Shri. Santosh Dhobale House	<b>Sampling Time</b>	12:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	46	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.85	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	13.67	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	46.58	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	16.74	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.81	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.12	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling, 3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-220/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/05/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	Kata Gate (Company Premises)	<b>Sampling Time</b>	11:50 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.6	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	48	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	23.21	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	25.96	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	70.12	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	26.54	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.21	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	02.74	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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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- ISO 45001 : 2018 Certified Organization

TEST REPORT			Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-251/2022-23	
		<b>Report Date</b>	30/12/2022	
		<b>Inward No</b>	12-237	
<b>Sample Testing Location</b>		<b>Inward Date</b>	26/12/2022	
Laboratory		<b>Analysis Start date</b>	27/12/2022	
<b>Sample Detail</b>		<b>Analysis End date</b>	30/12/2022	
South East -Borewell Water- Vishwanath Narhe		<b>Sample Condition</b>	Fit For Analysis	
<b>Sample Collected By</b>				
Party				
<b>Sample Volume</b>				
2250 ml				

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.35	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1238	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.69	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	705	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	101	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	338	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	61.2	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	137	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	64.3	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>-2</sup>	mg/lit	609	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.2	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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	Present	Absent	IS1622:1981 Reaff.2014

#### 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  
(Mr. Akshay Khot)

Authorized Signatory  
(Mr. Vipul Waghmare)

...End of test report...



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TEST REPORT			Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.			<b>Report No</b>	AL/TR/49-250/2022-23
			<b>Report Date</b>	30/12/2022
			<b>Inward No</b>	12-236
			<b>Inward Date</b>	26/12/2022
<b>Sample Testing Location</b>	Laboratory			
<b>Sample Detail</b>	Well Water-Popat Lole South-West	<b>Analysis Start date</b>	27/12/2022	
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	30/12/2022	
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
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	1552	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.91	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1009	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	85.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	440	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	368	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	76.8	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	42.2	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	609	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.0	≤45.0	APHA 23 <sup>rd</sup> Edition 2017 4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr. Akshay Khot)

Authorized Signatory  
(Mr. Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-254/2022-23
		<b>Report Date</b>	30/12/2022
		<b>Inward No</b>	12-240
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	26/12/2022
<b>Sample Detail</b>	North West Borewell Water- Tanishka Mangal Karyalay	<b>Analysis Start date</b>	27/12/2022
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	30/12/2022
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.20	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1784	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	9.14	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1010	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	52.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	470	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	208	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	43.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	24.0	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	211	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	11.4	≤45.0	APHA 23 <sup>rd</sup> Edition 2017-4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr. Akshay Khot)

Authorized Signatory  
(Mr. Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-249/2022-23
		<b>Report Date</b>	30/12/2022
		<b>Inward No</b>	12-235
		<b>Inward Date</b>	26/12/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	27/12/2022
<b>Sample Detail</b>	Well Water-Santosh Dhobale North-East	<b>Analysis End date</b>	30/12/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	2250 ml		

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.24	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1580	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.78	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	745	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	50.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	268	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	242	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	57.6	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	23.5	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	90.0	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	3.85	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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	Present	Absent	IS1622:1981 Reaff.2014

**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  
 (Mr. Akshay Khot)

Authorized Signatory  
 (Mr. Vipul Waghmare)

...End of test report...



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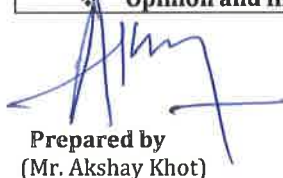
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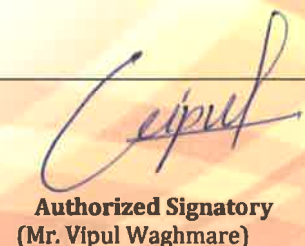
TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-252/2022-23
		<b>Report Date</b>	30/12/2022
		<b>Inward No</b>	12-238
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	26/12/2022
<b>Sample Detail</b>	Well Water-Balu Narhe South-East	<b>Analysis Start date</b>	27/12/2022
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	30/12/2022
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.08	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1689	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.74	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1203	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	104	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	346	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	614	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	146	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	59.5	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	91.1	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.2	≤45.0	APHA 23 <sup>rd</sup> Edition 2017-4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr. Akshay Khot)

  
Authorized Signatory  
(Mr. Vipul Waghmare)

...End of test report...



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## TEST REPORT

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<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-253/2022-23
		<b>Report Date</b>	30/12/2022
		<b>Inward No</b>	12-239
		<b>Inward Date</b>	26/12/2022
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	27/12/2022
<b>Sample Detail</b>	Ghod River Water	<b>Analysis End date</b>	30/12/2022
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	2250 ml		

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	1.40	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1247	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	10.04	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	811	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	53.6	≤250	IS3025(Part-32) RA 2009 / Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	312	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	212	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	33.6	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	30.7	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	211	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	5.20	≤45.0	APHA 23 <sup>rd</sup> Edition 2017 4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr. Akshay Khot)

Authorized Signatory  
(Mr. Vipul Waghmare)

...End of test report...



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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-224/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/09/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	Company Premises	<b>Sampling Time</b>	03:00 PM To 03:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
<b>A. Outside of Shop</b>					
1.	Near Petrol Pump	dB(A)	70.4	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Chichgai Road	dB(A)	69.2		
3.	Near Sakhar Shala	dB(A)	71.3		
<b>B. Inside of Shop</b>					
4.	Near Sugar House	dB(A)	71.5	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Workshop	dB(A)	70.2		
6.	Near Boiler House	dB(A)	71.3		

### 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	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-221/22-23
		<b>Report Date</b>	03/01/2023
		<b>Inward No</b>	AL/7-822/06/22-23
		<b>Inward Date</b>	26/12/2022
<b>Sample Location</b>	Bagasse Yard {Fugitive Sample}	<b>Sampling Time</b>	12:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	83.21	IS:5182(Part-23):2006
2.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	23.40	IS:5182(Part-23):2006

  
**Verified by**  
(Analyst)

  
**Authorized Signatory**

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-599/2022-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	1-297
		<b>Inward Date</b>	30/01/2023
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	01/02/2023
<b>Sample Detail</b>	ETP Inlet	<b>Analysis End date</b>	06/02/2023
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	4.38	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	1800	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	5142	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	285	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	<1.00	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	3132	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	188	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	424	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### REMARK-

- ❖ 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  
(Mr.Akshay khot)

Reviewed by  
(Mrs.Dhanashri Thorat)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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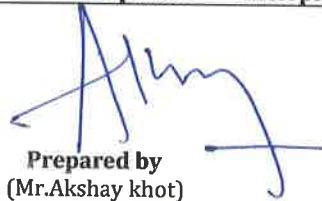
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TEST REPORT		Page 1 of 1
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b> AL/TR/49-600/2022-23
		<b>Report Date</b> 07/02/2023
		<b>Inward No</b> 01-298
		<b>Inward Date</b> 30/01/2023
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b> 01/02/2023
<b>Sample Detail</b>	ETP Outlet	
<b>Sample Collected By</b>	Party	<b>Analysis End date</b> 06/02/2023
<b>Sample Volume</b>	3000 ml	<b>Sample Condition</b> Fit For Analysis

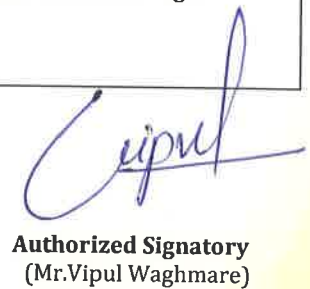
Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	8.18	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	38.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	106	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	21.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.20	≤10.0	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1182	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	99.3	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	280	≤1000	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

**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**  
 (Mr.Akshay khot)

  
**Reviewed by**  
 (Mrs.Dhanashri Thorat)

  
**Authorized Signatory**  
 (Mr.Vipul Waghmare)

...End of test report...



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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-835/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/07/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	Old Boiler (37 T/hr)	<b>Sampling Time</b>	01:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	12.56	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	° C	121.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.17	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.69	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	263213.12	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	106.8	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	89.74	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	116.32	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2412.3	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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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-836/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/08/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	New Boiler (80T/hr)	<b>Sampling Time</b>	02:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	09.83	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	° C	142.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.51	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.24	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	184290.8	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	122.14	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1365.2	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	258.7	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	251.45	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

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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b> AL/TR/69-832/22-23
		<b>Report Date</b> 07/02/2023
		<b>Inward No</b> AL/7-882/04/22-23
		<b>Inward Date</b> 30/01/2023
<b>Sample Location</b>	East side -Shri. Raju Seth Dhobale House	<b>Sampling Time</b> 11:24 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b> 08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.6	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	47	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.94	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	12.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	42.89	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	16.91	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.87	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.16	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling, 3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-830/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/02/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	West Side -Shri. Vikram walase House	<b>Sampling Time</b>	10:45 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.2	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.45	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	10.14	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	47.52	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	18.23	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.98	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.16	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling, 3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/69-831/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/03/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	North side- Shri. Namdev Dhobale House	<b>Sampling Time</b>	02:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.2	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	42	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.96	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	09.87	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	54.23	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	18.02	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.19	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	00.97	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

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

भीमाशंकर सहकारी साखर कारखाना लि.  
पत्र आवक नं. 3890  
दिनांक - 22/02/2023  
सही

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/69-829/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/01/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	South Side-Shri. Popat Lole House	<b>Sampling Time</b>	11:00 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.4	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	49	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	12.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	10.25	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	42.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	16.55	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-7):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.12	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-833/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/05/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	Main Gate (Company Premises)	<b>Sampling Time</b>	11:46 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	46	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	19.12	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	17.01	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	63.10	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	24.23	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.32	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.47	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-608/2022-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	1-306
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	30/01/2023
<b>Sample Detail</b>	Well Water-Raju sheth Dhobale(East side)	<b>Analysis Start date</b>	01/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	06/02/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.35	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	910	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.70	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	592	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	84.4	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	222	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	240	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	32.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	38.4	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	122	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	5.17	≤45.0	APHA 23 <sup>rd</sup> Edition 2017-4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr.Akshay khot)

Reviewed by  
(Mrs.Dhanashri Thorat)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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### TEST REPORT

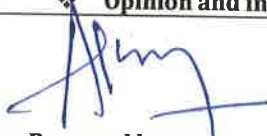
Page 1 of 1

<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-607/2022-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	1-305
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	30/01/2023
<b>Sample Detail</b>	Well Water-Vikram Walse (West side)	<b>Analysis Start date</b>	01/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	06/02/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

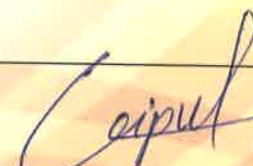
Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.28	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	2926	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.42	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1902	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	92.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	296	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	482	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	27.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	99.4	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	529	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	11.3	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr.Akshay khot)

  
Reviewed by  
(Mrs.Dhanashri Thorat)

  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-605/2022-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	1-303
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	30/01/2023
<b>Sample Detail</b>	Borewell Water -Namdev Dhobale (North Side)	<b>Analysis Start date</b>	01/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	06/02/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.20	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1467	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.61	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	954	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	87.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	358	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	434	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	96.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	46.6	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	203	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.0	≤45.0	APHA 23 <sup>rd</sup> Edition 2017-4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ The above analysis water sample is not within the prescribed limits.
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- ❖ Above analysis results are related to sample as tested.
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- ❖ N.S. Not Specified
- ❖ Opinion and interpretation - Not applicable

Prepared by  
(Mr.Akshay khot)

Reviewed by  
(Mrs.Dhanashri Thorat)

Authorized Signatory  
(Mr.Vipul Waghmare)

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## TEST REPORT

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<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-606/2022-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	1-304
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	30/01/2023
<b>Sample Detail</b>	Well Water --Popat Lole (South Side)	<b>Analysis Start date</b>	01/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	06/02/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.84	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1761	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.43	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1145	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	47.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	301	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	222	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	39.2	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	29.0	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	94.0	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	9.04	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

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

Prepared by  
(Mr.Akshay khot)

Reviewed by  
(Mrs.Dhanashri Thorat)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-604/2022-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	1-302
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	30/01/2023
<b>Sample Detail</b>	Borewell water -Ulas Chavan (South Side)	<b>Analysis Start date</b>	01/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	06/02/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
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	1778	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.49	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1156	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	158	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	339	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	500	≤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	52.8	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	426	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.0	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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  
(Mr.Akshay khot)

Reviewed by  
(Mrs.Dhanashri Thorat)

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-837/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/09/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	Company Premises	<b>Sampling Time</b>	03:00 PM To 03:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
<b>A. Outside of Shop</b>					
1.	Near Petrol Pump	dB(A)	72.3	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Karkhana Colony	dB(A)	60.1		
3.	Near Guest House	dB(A)	65.3		
<b>B. Inside of Shop</b>					
4.	Near Sugar House	dB(A)	77.8	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Mill	dB(A)	76.1		
6.	Near Boiler (New)	dB(A)	76.4		

## REMARK, OPINION & INTERPRITATION-

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

Verified by  
(Analyst)

Authorized Signatory

...End of test report...





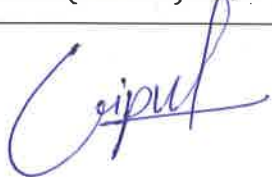
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/69-834/22-23
		<b>Report Date</b>	07/02/2023
		<b>Inward No</b>	AL/7-882/06/22-23
		<b>Inward Date</b>	30/01/2023
<b>Sample Location</b>	Bagasse Yard {Fugitive Sample}	<b>Sampling Time</b>	01:45 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	81.96	IS:5182(Part-23):2006
2.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	24.28	IS:5182(Part-23):2006

  
**Verified by**  
(Analyst)

  
**Authorized Signatory**

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-845/2022-23
		<b>Report Date</b>	03/03/2023
		<b>Inward No</b>	2-227
		<b>Inward Date</b>	24/02/2023
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/02/2023
<b>Sample Detail</b>	ETP Inlet	<b>Analysis End date</b>	01/03/2023
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	----	4.45	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	2300	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	6611	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	512	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	2.20	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	3638	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	163	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	55.2	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### REMARK-

- ❖ 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

P.P. Semalate  
Prepared by  
(Mr.Akshay khot)

Dhanashri  
Reviewed by  
(Mrs.Dhanashri Thorat)

Vipul  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-846/2022-23
		<b>Report Date</b>	03/03/2023
		<b>Inward No</b>	02-228
		<b>Inward Date</b>	24/02/2023
<b>Sample Testing Location</b>	Laboratory	<b>Analysis Start date</b>	25/02/2023
<b>Sample Detail</b>	ETP Outlet	<b>Analysis End date</b>	01/03/2023
<b>Sample Collected By</b>	Party	<b>Sample Condition</b>	Fit For Analysis
<b>Sample Volume</b>	3000 ml		

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.	22.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	82.0	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	9.00	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	<1.00	≤10.0	APHA 23 <sup>rd</sup> Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1415	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	133	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit.	105	≤1000	APHA-23 <sup>rd</sup> Edition 2017 4500-E-SO <sub>4</sub> <sup>2-</sup>

#### 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

*P.P. Shinde*  
Prepared by  
(Mr.Akshay khot)

*Dhanashri*  
Reviewed by  
(Mrs.Dhanashri Thorat)

*Vipul*  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-277/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/07/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	Old Boiler (37 T/hr)	<b>Sampling Time</b>	01:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	12.56	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	° C	127.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.11	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.69	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	259345.39	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	104.8	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	87.45	≤2880	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	114.6	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2398.2	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

PP. *Pradham*  
Verified by  
(Analyst)

*Cipul*  
Authorized Signatory

...End of test report...



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SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-278/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/08/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	New Boiler (80T/hr)	<b>Sampling Time</b>	02:00 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
<b>A. Stack Details</b>					
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 <sup>2</sup>	09.83	N.S.	--
<b>B. Parameters</b>					
7.	Flue Gas Temperature	° C	138.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.48	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.18	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm <sup>3</sup> /hr.	184392.34	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm <sup>3</sup>	120.4	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1348.5	≤3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	255.6	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	243.65	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

P.P. Prasad

Verified by  
(Analyst)

Authorized Signatory

...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-272/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/02/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	South East-Shri. Raghunath Dhobale House	<b>Sampling Time</b>	11:40 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	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	43	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.35	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	10.21	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	46.12	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	18.34	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.85	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.11	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling, 3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

P.P. Gadam

Verified by  
(Analyst)

*Cipul*

Authorized Signatory

...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/70-271/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/01/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	South West -Shri. Rohidas Dhobale House	<b>Sampling Time</b>	12:05 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.2	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	40	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	10.31	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	43.02	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	16.67	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.49	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.21	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Samping,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

P.P. Pradam  
**Verified by**  
 (Analyst)

**Authorized Signatory**

...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-274/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/04/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	North East -Shri. Pravin Sable House	<b>Sampling Time</b>	10:50 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.8	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	45	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11.02	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	12.65	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	40.78	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	16.96	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.81	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.17	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampeling, 3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

P.P. Ghosh  
Verified by  
(Analyst)

Authorized Signatory

...End of test report...





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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		<b>Report No</b>	AL/TR/70-273/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/03/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	North west - Shri. Suresh Giri House	<b>Sampling Time</b>	10:30 AM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.7	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	46	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	10.98	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	09.92	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	52.14	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	18.12	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.10	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	00.91	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

P.P. *[Signature]*

Verified by  
(Analyst)

*[Signature]*

Authorized Signatory

...End of test report...



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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-275/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/05/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	Karkhana Premises- Senior College	<b>Sampling Time</b>	12:16 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.2	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	40	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	16.48	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	17.12	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	60.21	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	23.69	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.27	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	01.38	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampingel,3 <sup>rd</sup> Edition
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m <sup>3</sup>	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m <sup>3</sup>	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

P.P. *Pradham*

Verified by  
(Analyst)

Authorized Signatory

...End of test report...



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TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-840/2022-23
		<b>Report Date</b>	02/03/2023
		<b>Inward No</b>	2-222
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	24/02/2023
<b>Sample Detail</b>	Well Water -Raghunath Dhobale (South East)	<b>Analysis Start date</b>	25/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	01/03/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.58	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1843	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.78	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1198	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	123	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	364	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	632	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	126	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	75.9	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	151	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.1	≤45.0	APHA 23 <sup>rd</sup> Edition 2017 4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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

P.P. Simalate

Prepared by  
(Mr.Akshay khot)

Dhanashri

Reviewed by  
(Mrs.Dhanashri Thorat)

Vipul

Authorized Signatory  
(Mr.Vipul Waghmare)

...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/49-841/2022-23
		Report Date	02/03/2023
Sample Testing Location		Inward No	2-223
		Inward Date	24/02/2023
Sample Detail	Laboratory Borewell Water-Rohidas Dhobale (South West)	Analysis Start date	25/02/2023
Sample Collected By	Party	Analysis End date	01/03/2023
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
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	2014	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.57	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1309	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	158	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	759	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	388	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	77.5	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	46.5	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	145	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	12.8	≤45.0	APHA 23 <sup>rd</sup> Edition 2017-4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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

P.P. Sonabete  
Prepared by  
(Mr. Akshay khot)

Qradom  
Reviewed by  
(Mrs. Dhanashri Thorat)

Cipuf  
Authorized Signatory  
(Mr. Vipul Waghmare)

...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/49-838/2022-23
		Report Date	02/03/2023
Sample Testing Location	Laboratory	Inward No	2-220
Sample Detail	Well water- Pravin Sabale (North East)	Inward Date	24/02/2023
Sample Collected By	Party	Analysis Start date	25/02/2023
Sample Volume	2250 ml	Analysis End date	01/03/2023
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.82	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1846	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.81	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1200	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	83.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	396	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	673	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	134	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	80.8	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	157	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	13.0	≤45.0	APHA 23 <sup>rd</sup> Edition 2017-4500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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

*P.P. Sanakate*  
Prepared by  
(Mr.Akshay khot)

*Dhanashri*  
Reviewed by  
(Mrs.Dhanashri Thorat)

*Vipul*  
Authorized Signatory  
(Mr.Vipul Waghmare)

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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/49-839/2022-23
		Report Date	02/03/2023
Sample Testing Location		Inward No	2-221
		Inward Date	24/02/2023
Sample Detail	Laboratory Well Water -Suresh Giri (North West)	Analysis Start date	25/02/2023
Sample Collected By	Party	Analysis End date	01/03/2023
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

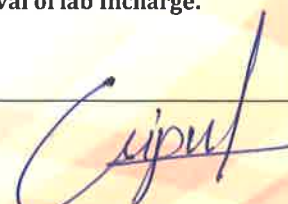
Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.12	≤1.00	IS3025(Part-10)
4.	Conductivity	µMHOs/cm	2064	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	7.71	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1342	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	212	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	770	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	408	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	69.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	56.3	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	88.8	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	12.8	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ The above analysis water sample is not within the prescribed limits.
- ❖ 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

P.P.   
Prepared by  
(Mr.Akshay khot)

  
Reviewed by  
(Mrs.Dhanashri Thorat)

  
Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



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## TEST REPORT

Page 1 of 1

<b>NAME OF COMPANY &amp; ADDRESS:</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		<b>Report No</b>	AL/TR/49-842/2022-23
		<b>Report Date</b>	02/03/2023
		<b>Inward No</b>	2-224
<b>Sample Testing Location</b>	Laboratory	<b>Inward Date</b>	24/02/2023
<b>Sample Detail</b>	Well Water-Sameer karande (East Side)	<b>Analysis Start date</b>	25/02/2023
<b>Sample Collected By</b>	Party	<b>Analysis End date</b>	01/03/2023
<b>Sample Volume</b>	2250 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
<b>A) PHYSICAL ANALYSIS</b>					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.48	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	2058	N.S	IS 3025 (Part 14):2013
<b>B) CHEMICAL ANALYSIS</b>					
5.	pH @ 25°C	---	8.02	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1338	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	143	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/lit	417	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO <sub>3</sub>	mg/lit	765	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	130	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	105	≤30.0	APHA 23 <sup>rd</sup> Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	142	≤200	APHA-23 <sup>rd</sup> Edition 2017-E-SO <sub>4</sub> <sup>2-</sup>
13.	Nitrate as NO <sub>3</sub>	mg/lit	12.7	≤45.0	APHA 23 <sup>rd</sup> Edition 20174500-B-NO <sub>3</sub>
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
<b>C) BACTERIOLOGICAL ANALYSIS</b>					
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-

- ❖ 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

*P.P. Samalate*

Prepared by  
(Mr.Akshay khot)

*Dhanashri*

Reviewed by  
(Mrs.Dhanashri Thorat)

*Vipul*

Authorized Signatory  
(Mr.Vipul Waghmare)

...End of test report...



# AKANKSHA ANALYTICAL & RESEARCH LAB

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- ISO 45001 : 2018 Certified Organization

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
<b>NAME OF COMPANY:-</b> <b>M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-279/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/09/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	Company Premises	<b>Sampling Time</b>	03:00 PM To 03:30 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
<b>A. Outside of Shop</b>					
1.	Near Petrol Pump	dB(A)	65.7	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Switch Yard	dB(A)	73.6		
3.	Near English Medium School	dB(A)	61.2		
<b>B. Inside of Shop</b>					
4.	Near Turbine	dB(A)	84.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Boiling House	dB(A)	86.9		
6.	Near Work Shop	dB(A)	85.6		

## REMARK, OPINION & INTERPRITATION-

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

P.P. *Pradham*

Verified by  
(Analyst)

*C. S. Pradham*

Authorized Signatory

...End of test report...





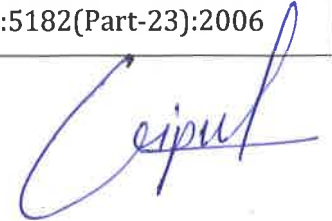
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ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
<b>NAME OF COMPANY:-</b> M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		<b>Report No</b>	AL/TR/70-276/22-23
		<b>Report Date</b>	04/03/2023
		<b>Inward No</b>	AL/7-932/06/22-23
		<b>Inward Date</b>	24/02/2023
<b>Sample Location</b>	Bagasse Yard {Fugitive Sample}	<b>Sampling Time</b>	01:45 PM
<b>Sample Collected By</b>	AARL	<b>Time duration</b>	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM <sub>10</sub> (less than 10 micron)	µg/m <sup>3</sup>	84.10	IS:5182(Part-23):2006
2.	Particulate matter-PM <sub>2.5</sub> (less than 2.5 micron)	µg/m <sup>3</sup>	25.12	IS:5182(Part-23):2006

PP: @readam  
**Verified by**  
(Analyst)

  
**Authorized Signatory**

...End of test report...