



AKANKSHA ANALYTICAL & RESEARCH LAB

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

TEST REPORT				Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No		AL/TR/70-183/2023-24
		Report Date		07/12/2023
		Inward No		12-006
		Inward Date		02/12/2023
Sample Testing Location	Laboratory	Analysis Start date		02/12/2023
Sample Detail	ETP Outlet	Analysis End date		06/12/2023
Sample Collected By	Party	Sample Condition		Fit For Analysis
Sample Volume	3000 ml			

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.26	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	77.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	224	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	11.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.10	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1292	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	176	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄	mg/lit.	107	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

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

Prepared by
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...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

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/70-182/2023-24
		Report Date	07/12/2023
		Inward No	12-005
		Inward Date	02/12/2023
Sample Testing Location	Laboratory	Analysis Start date	02/12/2023
Sample Detail	ETP Inlet	Analysis End date	06/12/2023
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	4.40	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	1400	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	4176	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	18.0	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.60	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	2440	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	391	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄	mg/lit.	190	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

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

Vrushi

Prepared by
(Mrs.Vrushali kadam-Londhe)

Dhanashri

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Vipul

Authorized Signatory
(Mr.Vipul Waghmare)

...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

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/70-442/2023-24
		Report Date	03/01/2024
		Inward No	12-274
		Inward Date	28/12/2023
Sample Testing Location	Laboratory	Analysis Start date	28/12/2023
Sample Detail	ETP Outlet	Analysis End date	02/01/2024
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	3000 ml		

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.82	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	58.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	168	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	44.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	<1.00	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1394	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	131	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	108	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

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

Prepared by
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)



Authorized Signatory
(Mr.Vipul Waghmare)

...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

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/70-441/2023-24	
		Report Date	03/01/2024	
		Inward No	12-273	
		Inward Date	28/12/2023	
Sample Testing Location	Laboratory	Analysis Start date	28/12/2023	
Sample Detail	ETP Inlet	Analysis End date	02/01/2024	
Sample Collected By	Party	Sample Condition	Fit For Analysis	
Sample Volume	3000 ml			

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	4.80	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	3111	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	9317	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	403	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.10	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	4620	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	160	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	294	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)



Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/70-651/2023-24
		Report Date 03/02/2024
		Inward No 01-183
		Inward Date 27/01/2024
Sample Testing Location	Laboratory	Analysis Start date 29/01/2024
Sample Detail	ETP Outlet	Analysis End date 02/02/2024
Sample Collected By	Party	Sample Condition Fit For Analysis
Sample Volume	3000 ml	

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.18	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	28.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	122	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	86.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.20	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1470	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	208	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	61.4	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

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

Prepared by
(Mrs.Vrushali kadam -Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)



Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-650/2023-24
		Report Date	03/02/2024
		Inward No	01-182
		Inward Date	27/01/2024
Sample Testing Location	Laboratory	Analysis Start date	29/01/2024
Sample Detail	ETP Inlet	Analysis End date	02/02/2024
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	5.40	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	1200	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit.	3520	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	614	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	1.80	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	3123	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	140	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit.	732	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

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

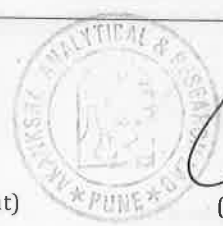
Vrushi

Prepared by
(Mrs.Vrushali kadam-Londhe)

Dhanashri

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

...End of test report...



Vipul

Authorized Signatory
(Mr.Vipul Waghmare)



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board , M/o Environment, Forest & Climate Change, Govt. of India
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT			Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakar Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-865/2023-24
		Report Date	28/02/2024
		Inward No	02-178
		Inward Date	22/02/2024
Sample Testing Location	Laboratory	Analysis Start date	23/02/2024
Sample Detail	ETP Outlet		
Sample Collected By	Party	Analysis End date	27/02/2024
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C		5.60	5.5-9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit	29.0	≤100	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand	mg/lit	168	≤250	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit	91.0	≤100	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit	1.60	≤10.0	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit	912	≤2100	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit	259	≤600	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/lit	463	≤1000	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

REMARK-

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


Prepared by
(Mrs.Vrushali kadam-Londhe)


Reviewed by
Mrs.Dhanashree Thorat)


Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

TEST REPORT		Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-864/2023-24
		Report Date	28/02/2024
		Inward-No	02-177
		Inward Date	22/02/2024
Sample Testing Location	Laboratory	Analysis Start date	23/02/2024
Sample Detail	ETP Inlet	Analysis End date	27/02/2024
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	3000 ml		

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	----	7.25	IS 3025 (Part 11) RA 2012 Electrometric method
2.	BOD @27° C For 3 Days	mg/lit.	1600	IS 3025 (Part 44) RA 2014 Azide Modification Method
3.	Chemical Oxygen Demand ¹	mg/lit.	4720	IS 3025 (Part 58) RA 2012 Open Reflux Method
4.	Total Suspended Solids	mg/lit.	1190	IS 3025 (Part 17) RA 2012 Gravimetric method
5.	Oil & Grease	mg/lit.	2.20	APHA 23 rd Edition 2017 5520 B
6.	Total Dissolved Solids	mg/lit.	1973	IS 3025 (Part 16) RA 2012 Gravimetric method
7.	Chlorides as Cl	mg/lit.	220	IS 3025 (Part 32) RA 2009 Argentometric method
8.	Sulphate as SO ₄ ²	mg/lit.	34.8	APHA-23 rd Edition 2017 4500-E-SO ₄ ²⁻

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
(Mrs.Vrushali kadam-Londhe)


Reviewed by
Mrs.Dhanashree Thorat)


Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT				Page 1 of 1	
NAME OF COMPANY & ADDRESS: M/s. Dhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.			Report No		AL/TR/80-215/2024-25
			Report Date		06/04/2024
			Inward No		03-272
			Inward Date		30/03/2024
Sample Testing Location		Laboratory		Analysis Start date	01/04/2024
Sample Detail		ETP Outlet			
Sample Collected By		Party		Analysis End date	05/04/2024
Sample Volume		3000 ml		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as Per MPCB Consent	Method
1.	pH@25° C	-----	7.91	5.5-9.0	IS 3025 (Part 11) RA 2022 Electrometric method
2.	BOD @27° C For 3 Days	mg/l.	28.0	≤100	IS 3025 (Part 44) RA 2023 Azide Modification Method
3.	Chemical Oxygen Demand	mg/l.	110	≤250	IS 3025 (Part 58) RA 2023 Open Reflux Method
4.	Total Suspended Solids	mg/l.	58.0	≤100	IS 3025 (Part 17) RA 2022 Gravimetric method
5.	Oil & Grease	mg/l.	2.7	≤10.0	APHA-24 th Edition 2023 -5520 B
6.	Total Dissolved Solids	mg/l.	1585	≤2100	IS 3025 (Part 16) RA 2023 Gravimetric method
7.	Chlorides as Cl	mg/l.	213.69	≤600	IS 3025 (Part 32) RA 2019 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/l.	139.85	≤1000	APHA-24 th Edition 2023 4500-E-SO ₄ ²⁻

REMARK-

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

Quam

Prepared by
(Mrs.Vrushali kadam-londhe)

Sonali

Reviewed by
(Ms.Sonali Mohite)



Vipul

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT		Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal. - Ambegaon, Dist. - Pune-412406.		Report No AL/TR/80-214/2024-25
		Report Date 06/04/2024
		Inward No 03-271
		Inward Date 30/03/2024
Sample Testing Location	Laboratory	Analysis Start date 01/04/2024
Sample Detail	ETP Inlet	Analysis End date 05/04/2024
Sample Collected By	Party	Sample Condition Fit For Analysis
Sample Volume	3000 ml	

Sr. No.	Parameter	Unit	Result	Method
1.	pH@25° C	-----	4.20	IS 3025 (Part 11) RA 2022 Electrometric method
2.	BOD @27° C For 3 Days	mg/l.	1500	IS 3025 (Part 44) RA 2023 Azide Modification Method
3.	Chemical Oxygen Demand	mg/l.	4408	IS 3025 (Part 58) RA 2023 Open Reflux Method
4.	Total Suspended Solids	mg/l.	240	IS 3025 (Part 17) RA 2022 Gravimetric method
5.	Oil & Grease	mg/l.	4.1	APHA-24 th Edition 2023 -5520 B
6.	Total Dissolved Solids	mg/l.	4184	IS 3025 (Part 16) RA 2023 Gravimetric method
7.	Chlorides as Cl	mg/l.	169.98	IS 3025 (Part 32) RA 2019 Argentometric method
8.	Sulphate as SO ₄ ²⁻	mg/l.	1060.58	APHA-24 th Edition 2023 4500-E-SO ₄ ²⁻

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

(Signature)

Prepared by
(Mrs.Vrushali kadam-londhe)

(Signature)
Reviewed by
(Ms.Sonali Mohite)



(Signature)
Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

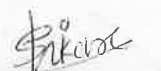
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

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/76-465/23-24
	Report Date	09/12/2023
	Inward No	AL/8-492/03/23-24
	Sampling Date	30/11/2023
Sample Location	East Side- Mr. Ramesh Gaikwad	Sampling Time 12:21 PM
Sample Collected By	AARL	Time duration 08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.41	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	18.36	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	50.26	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	21.26	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.95	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.25	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)

...End of test report...


Authorized Signatory



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

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/76-466/23-24
		Report Date	09/12/2023
		Inward No	AL/8-492/04/23-24
		Sampling Date	30/11/2023
Sample Location	West side- Shri. Nivruthi Dhobale House	Sampling Time	12:29 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	51	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.23	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	17.63	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.26	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	20.26	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.32	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.95	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

[Signature]

Verified by
(Analyst)



[Signature]

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 आंक. सं. २६५५
दिनांक - २२/१२/२०२३

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/76-463/23-24
		Report Date	09/12/2023
		Inward No	AL/8-492/01/23-24
		Sampling Date	30/11/2023
Sample Location	South side - Shri Pandurang Walase House	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	52	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.26	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	17.25	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	45.26	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	20.15	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.33	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.14	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Verified by
(Analyst)

PM
Rahul
23/12



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

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
		Report Date
		Inward No
		Sampling Date
Sample Location	North Side-Yogesh Pingale	Sampling Time
Sample Collected By	AARL	Time duration

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.25	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	19.26	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	44.56	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	20.41	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.63	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.95	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)

...End of test report...




Authorized Signatory



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

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/76-467/23-24	
		Report Date	09/12/2023	
		Inward No	AL/8-492/05/23-24	
		Sampling Date	30/11/2023	
Sample Location	Main Gate (Company Premises)	Sampling Time	12:35 PM	
Sample Collected By	AARL	Time duration	08 Hr	

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	50	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.26	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	24.23	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	53.52	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.26	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.87	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.56	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Signature
Verified by
(Analyst)



Signature
Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

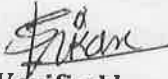
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

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/77-290/23-24
		Report Date	05/01/2024
		Inward No	AL/8-566/01/23-24
		Sampling Date	27/12/2023
Sample Location	South East-Shri. Raghunath Dhobale House	Sampling Time	01:57 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	21.23	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	22.25	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.60	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.50	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.23	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.25	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	µg/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No
		Report Date
		Inward No
		Sampling Date
Sample Location	South west - Taniskha Mangal Karyalaya	Sampling Time
Sample Collected By	AARL	Time duration

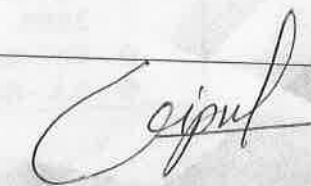
SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.26	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	22.25	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.60	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.25	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.45	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.23	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report...



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

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/77-292/23-24	
		Report Date	05/01/2024	
		Inward No	AL/8-566/03/23-24	
		Sampling Date	27/12/2023	
Sample Location	North East -Shri. Pravin Sable House	Sampling Time	01:05 PM	
Sample Collected By	AARL	Time duration	08 Hr	

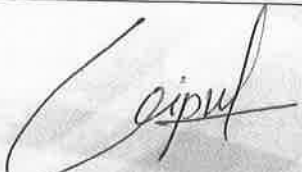
SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.25	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	22.56	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	46.20	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.90	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	16.23	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.15	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING				Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/77-293/23-24	
		Report Date	05/01/2024	
		Inward No	AL/8-566/04/23-24	
		Sampling Date	27/12/2023	
Sample Location	North west - Shri. Suresh Giri House	Sampling Time	02:20 PM	
Sample Collected By	AARL	Time duration	08 Hr	

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.23	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	23.26	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	45.50	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.20	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.26	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.98	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/77-294/23-24
		Report Date	05/01/2024
		Inward No	AL/8-566/05/23-24
		Sampling Date	27/12/2023
Sample Location	Karkhana Premises- Senior College	Sampling Time	01:25 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.26	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	23.25	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	45.60	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.50	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.23	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.45	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	< 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

भीमाशंकर सहकारी साखर कारखाना लि.
चम आसारी ब्लाक ३६३४
दिनांक - २४/०२/२४ *Bigal*

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/78-003/23-24
		Report Date	05/02/2024
		Inward No	AL/8-641/01/23-24
		Sampling Date	27/01/2024
Sample Location	East Side- Mr. Ramesh Gaikwad House	Sampling Time	11:40 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.78	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	20.36	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.10	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	22.60	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.41	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.36	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

[Signature]
Verified by
(Analyst)



[Signature]
Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/78-001/23-24
		Report Date	05/02/2024
		Inward No	AL/8-641/02/23-24
		Sampling Date	27/01/2024
Sample Location	West side- Shri. Nivruthi Dhobale House	Sampling Time	10:40 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.45	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	21.78	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	48.70	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.10	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.47	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.12	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING				Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-005/23-24	
		Report Date	05/02/2024	
		Inward No	AL/8-641/03/23-24	
		Sampling Date	27/01/2024	
Sample Location	South side - Shri Pandurang Walase House	Sampling Time	11:20 AM	
Sample Collected By	AARL	Time duration	08 Hr	

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.45	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	20.89	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	49.50	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	21.40	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	16.23	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.63	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Verified by
(Analyst)

...End of test report...

Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No
		Report Date
		Inward No
		Sampling Date
Sample Location	North Side-Yogesh Pingale House	Sampling Time
Sample Collected By	AARL	Time duration

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	58	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.69	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	21.98	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	47.60	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	21.60	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.15	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.20	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampeling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK,OPINION & INTERPRITATION-

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

Verified by
(Analyst)

...End of test report...

Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-007/23-24
		Report Date	05/02/2024
		Inward No	AL/8-641/05/23-24
		Sampling Date	27/01/2024
Sample Location	Kata Gate (Company Premises)	Sampling Time	10:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	29.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	57	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	21.78	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	20.63	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	49.80	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	21.70	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.45	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.40	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

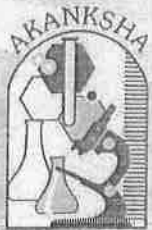
- ❖ All above results are within limits as per (NAAQS) National Ambient Air Quality Standards 2009.
- ❖ BDL-Below Detectable Limit.
- ❖ N.S. -Not Specified


Verified by
(Analyst)



...End of test report


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-545/23-24
		Report Date	28/02/2024
		Inward No	AL/8-698/01/23-24
		Sampling Date	22/02/2024
Sample Location	South East-Shri. Vishvnath Nahre House	Sampling Time	11:20 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	57	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	21.32	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	23.45	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.20	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.10	≤ 60	IS:5182(Part-23):2006
7.	Ozone (O ₃)	µg/m ³	16.32	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.35	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Capul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/78-546/23-24
		Report Date	28/02/2024
		Inward No	AL/8-699/02/23-24
		Sampling Date	22/02/2024
Sample Location	South West- Shri. Vitthal Dhobale House	Sampling Time	11:26 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% RH	57	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.52	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	23.89	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.20	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.65	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.52	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.38	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/78-547/23-24
		Report Date	28/02/2024
		Inward No	AL/8-698/03/23-24
		Sampling Date	22/02/2024
Sample Location	North Side- Shri Balasaheb Dhobale House	Sampling Time	11:32 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	56	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.15	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	22.41	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	51.40	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.20	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.45	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	00.98	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shrankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-548/23-24
		Report Date	28/02/2024
		Inward No	AL/8 698/04/23-24
		Sampling Date	22/02/2024
Sample Location	South Side-Shri. Popat Lole House	Sampling Time	11:42 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	57	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.21	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	19.45	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	49.50	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	20.30	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.80	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.54	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling,3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-549/23-24
		Report Date	28/02/2024
		Inward No	AL/8-698/05/23-24
		Sampling Date	22/02/2024
Sample Location	Kata Gate (Company Premises)	Sampling Time	11:56 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	56	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.45	≤ 80	IS:5182(Part-2):2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	22.14	≤ 80	IS:5182(Part-6):2006
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.20	≤ 100	IS:5182(Part-23):2006
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.10	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.56	≤ 180	IS:5182(Part-9):1974
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22):2004
9.	Carbon Monoxide (CO)	mg/m ³	01.47	≤ 04	IS:5182(Part-10):1999
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401,(Indophenols method)Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11):2006
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12):2004
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	IS:3025 (PART-37)
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	IS:3025 (PART-54) 2003

REMARK, OPINION & INTERPRITATION-

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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

भीमाशंकर सहकारी साखर कारखाना लि.
पत्र आंक नं. 989
दिनांक - 20/08/2024
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/79-646/2024-25
		Report Date	06/04/2024
		Inward No	AL/8-787/01/2024-25
		Samplin Date	30/03/2024
Sample Location	South East - Shri Bharat Dhobale House	Sampling Time	10:50 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	36	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.45	≤ 80	IS:5182(Part-2/Sec-1)RA2023
4.	Oxides of Nitrogen (NO _x)	µg/m ³	18.20	≤ 80	IS:5182(Part-6)RA 2022
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	50.30	≤ 100	IS:5182(Part-23)RA 2022
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.20	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.45	≤ 180	IS:5182(Part-9)RA 2019
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22)RA 2019
9.	Carbon Monoxide (CO)	mg/m ³	01.52	≤ 04	IS:5182(Part-10)RA 2019
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11)RA 2022
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12)RA 2019
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	Lab Method/SOP/013/AAS EPM 2000 Equivalent filter paper
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	Lab Method/SOP/014/AAS EPM 2000 Equivalent filter paper

Details of equipment used and its Calibration Certificate

Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Ambient Air Quality Machine	AK-AAQ-03	2250148	30/07/2024
Digital Weighing Balance	AL-DWB-01	2023/60146/01	27/06/2024
Spectrophotometer	AARL/SPM/02	2250120	01/08/2024
Atomic Absorption Spectrometer	AARL/AA/01	2250106	01/08/2024

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

[Signature]
Verified by
(Analyst)



...End of test report

[Signature]
Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406	Report No	AL/TR/79-647/2024-25
	Report Date	06/04/2024
	Inward No	AL/8-787/02/2024-25
	Sampling Date	30/03/2024
Sample Location	South West- Shri. Mayur Dhobale House	Sampling Time 11:00 AM
Sample Collected By	AARL	Time duration 08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	30.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	37	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.69	≤ 80	IS:5182(Part-2/Sec-1)RA2023
4.	Oxides of Nitrogen (NO _x)	µg/m ³	24.58	≤ 80	IS:5182(Part-6)RA 2022
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	52.30	≤ 100	IS:5182(Part-23)RA 2022
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.80	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.78	≤ 180	IS:5182(Part-9)RA 2019
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22)RA 2019
9.	Carbon Monoxide (CO)	mg/m ³	01.65	≤ 04	IS:5182(Part-10)RA 2019
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11)RA 2022
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12)RA 2019
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	Lab Method/SOP/013/AAS EPM 2000 Equivalent filter paper
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	Lab Method/SOP/014/AAS EPM 2000 Equivalent filter paper

Details of equipment used and its Calibration Certificate

Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Ambient Air Quality Machine	AK-AAQ-04	2250149	30/07/2024
Digital Weighing Balance	AL-DWB-01	2023/60146/01	27/06/2024
Spectrophotometer	AARL/SPM/02	2250120	01/08/2024
Atomic Absorption Spectrometer	AARL/AA/01	2250106	01/08/2024

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)



...End of test report...


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/79-648/2024-25
		Report Date	06/04/2024
		Inward No	AL/8-787/03/2024-25
		Sampling Date	30/03/2024
Sample Location	North East- Shri Pandurang Karande House	Sampling Time	11:45 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.65	≤ 80	IS:5182(Part-2/Sec-1)RA2023
4.	Oxides of Nitrogen (NO _x)	µg/m ³	23.78	≤ 80	IS:5182(Part-6)RA 2022
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	53.60	≤ 100	IS:5182(Part-23)RA 2022
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.20	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.47	≤ 180	IS:5182(Part-9)RA 2019
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22)RA 2019
9.	Carbon Monoxide (CO)	mg/m ³	01.75	≤ 04	IS:5182(Part-10)RA 2019
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11)RA 2022
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12)RA 2019
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	Lab Method/SOP/013/AAS EPM 2000 Equivalent filter paper
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	Lab Method/SOP/014/AAS EPM 2000 Equivalent filter paper

Details of equipment used and its Calibration Certificate

Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Ambient Air Quality Machine	AK-AAQ-05	2250150	30/07/2024
Digital Weighing Balance	AL-DWB-01	2023/60146/01	27/06/2024
Spectrophotometer	AARL/SPM/02	2250120	01/08/2024
Atomic Absorption Spectrometer	AARL/AA/01	2250106	01/08/2024

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)



...End of test report...


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

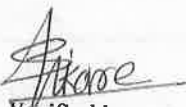
ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING				Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. -Ambegaon, Dist.- Pune-412 406		Report No	AL/TR/79-649/2024-25	
		Report Date	06/04/2024	
		Inward No	AL/8-787/04/2024-25	
		Smpling Date	30/03/2024	
		Sampling Time	12:10 PM	
		Time duration	08 Hr	
Sample Location	North West- Mr. Prashant Asware			
Sample Collected By	AARL			

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.30	≤ 80	IS:5182(Part-2/Sec-1)RA2023
4.	Oxides of Nitrogen (NO _x)	µg/m ³	23.21	≤ 80	IS:5182(Part-6)RA 2022
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	50.40	≤ 100	IS:5182(Part-23)RA 2022
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.10	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.54	≤ 180	IS:5182(Part-9)RA 2019
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22)RA 2019
9.	Carbon Monoxide (CO)	mg/m ³	01.78	≤ 04	IS:5182(Part-10)RA 2019
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11)RA 2022
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12)RA 2019
13.	Arsenic (As)	ng/m ³	BDL	≤ 06	Lab Method/SOP/013/AAS EPM 2000 Equivalent filter paper
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	Lab Method/SOP/014/AAS EPM 2000 Equivalent filter paper

Details of equipment used and its Calibration Certificate			
Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Ambient Air Quality Machine	AK-AAQ-06	2250151	30/07/2024
Digital Weighing Balance	AL-DWB-01	2023/60146/01	27/06/2024
Spectrophotometer	AARL/SPM/02	2250120	01/08/2024
Atomic Absorption Spectrometer	AARL/AA/01	2250106	01/08/2024

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



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/79-650/2024-25
		Report Date	06/04/2024
		Inward No	AL/8-787/05/2024-25
		Sampling Date	30/03/2024
Sample Location	Main Gate (Company Premises)	Sampling Time	10:30 AM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	LIMITS	METHOD
1.	Ambient Temperature	°C	32.0	N.S.	EPA -454/R-99-005
2.	Relative Humidity	% rh	35	N.S.	EPA -454/R-99-005
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.69	≤ 80	IS:5182(Part-2/Sec-1)RA2023
4.	Oxides of Nitrogen (NO _x)	µg/m ³	25.62	≤ 80	IS:5182(Part-6)RA 2022
5.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	54.20	≤ 100	IS:5182(Part-23)RA 2022
6.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.80	≤ 60	IS:5182(Part-24):2019
7.	Ozone (O ₃)	µg/m ³	16.74	≤ 180	IS:5182(Part-9)RA 2019
8.	Lead (Pb)	µg/m ³	BDL	≤ 1.0	IS:5182(Part-22)RA 2019
9.	Carbon Monoxide (CO)	mg/m ³	01.86	≤ 04	IS:5182(Part-10)RA 2019
10.	Ammonia as (NH ₃)	µg/m ³	BDL	≤ 400	Method No.401, (Indophenols method) Method Of Air Sampling, 3 rd Edition
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	≤ 05	IS:5182 (Part 11)RA 2022
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	≤ 01	IS:5182 (Part 12)RA 2019
13.	Arsenic (As)	ng/m ³	RDL	≤ 06	Lab Method/SOP/013/AAS EPM 2000 Equivalent filter paper
14.	Nickel (Ni)	ng/m ³	BDL	≤ 20	Lab Method/SOP/014/AAS EPM 2000 Equivalent filter paper

Details of equipment used and its Calibration Certificate

Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Ambient Air Quality Machine	AK-AAQ-01	2250146	30/07/2024
Digital Weighing Balance	AL-DWB-01	2023/60146/01	27/06/2024
Spectrophotometer	AARL/SPM/02	2250120	01/08/2024
Atomic Absorption Spectrometer	AARL/AA/01	2250106	01/08/2024

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)



...End of test report...


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

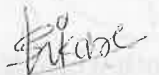
- Recognized by Ministry of Environment Forest and Climate Change (MoEFCC), New Delhi
- ISO 9001 : 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/76-469/23-24
		Report Date	09/12/2023
		Inward No	AL/8-492/07/23-24
		Sampling Date	30/11/2023
Sample Location	Old Boiler (45 T/hr)-2	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	30 Min

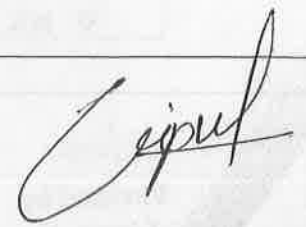
SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	120.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.30	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.80	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	267624.23	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	102.50	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	120.53	≤ 3920	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	148.80	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2425.14	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...



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

SOURCE EMISSION MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/76-470/23-24
		Report Date	09/12/2023
		Inward No	AL/8-492/08/23-24
		Sampling Date	30/11/2023
Sample Location	New Boiler (80 T/hr)-1	Sampling Time	12:40 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	133.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.67	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.32	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	190521.58	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	111.40	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1376.20	≤ 3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	228.60	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2545.2	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


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

SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/77-296/23-24
		Report Date	05/01/2024
		Inward No	AL/8-566/07/23-24
		Sampling Date	27/12/2023
Sample Location	Old Boiler (45 T/hr)-2	Sampling Time	03:00 PM
Sample Collected By	AARL	Time duration	30 Min

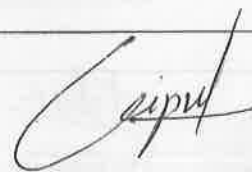
SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	121.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.31	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.82	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	267595.09	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	98.26	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	122.26	≤ 3920	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	147.26	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2413.25	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

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


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

SOURCE EMISSION MONITORING REPORT		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No AL/TR/77-297/23-24
		Report Date 05/01/2024
		Inward No AL/8-566/08/23-24
		Sampling Date 27/12/2023
Sample Location	New Boiler (80 T/hr)-1	Sampling Time 03:30 PM
Sample Collected By	AARL	Time duration 30 Min

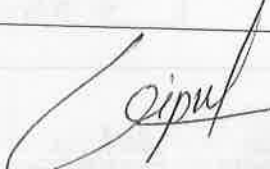
SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	134.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.68	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.34	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	190546.45	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	99.23	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1352.36	≤ 3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	242.25	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2548.60	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...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon,Dist. - Pune-412 406		Report No	AL/TR/78-009/23-24
		Report Date	05/02/2024
		Inward No	AL/8-641/07/23-24
		Sampling Date	27/01/2024
Sample Location	Old Boiler (45 T/hr)-2 No.	Sampling Time	12:40 PM
Sample Collected By	AARL	Time duration	30 Min

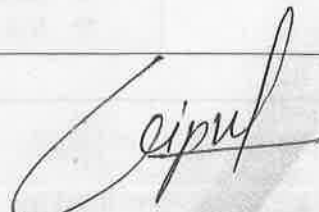
SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	122.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.32	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.84	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	267566.01	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	90.40	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	128.50	≤ 3920	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	150.63	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2425.36	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)




Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
ISO 9001: 2015 Certified Organization
ISO 45001 : 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No
		Report Date
		Inward No
		Sampling Date
Sample Location	New Boiler (80 T/hr)-1 No.	Sampling Time
Sample Collected By	AARL	Time duration

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	135.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.69	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.36	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	190571.20	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	96.20	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1355.63	≤ 3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	244.45	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2550.25	N.S.	IS 13270 :1992

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)

...End of test report...


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-551/23-24
		Report Date	28/02/2024
		Inward No	AL/8-698/07/23-24
		Sampling Date	22/02/2024
Sample Location	Old Boiler (45 T/hr)-2 No.	Sampling Time	01:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	123.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	04.33	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.86	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	267537.07	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	92.10	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	130.52	≤ 3920	IS 11255 (PART 2):1985
13.	Oxide of Nitrogen	mg/Nm ³	153.41	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2430.56	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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-552/23-24
		Report Date	28/02/2024
		Inward No	AL/8-698/08/23-24
		Sampling Date	22/02/2024
Sample Location	New Boiler (80 T/hr)-1 No.	Sampling Time	02:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	136.0	N.S.	IS 11255 (PART 3):2008
8.	Differential Pressure	mmwg	03.70	N.S.	IS 11255 (PART 3):2008
9.	Velocity	m/s	07.38	N.S.	IS 11255 (PART 3):2008
10.	Gas volume	Nm ³ /hr.	190595.82	N.S.	IS 11255 (PART 3):2008
11.	Particulate Matter	mg/Nm ³	94.30	≤ 150	IS 11255 (PART 1):1985
12.	Sulphur Dioxide	kg/day	1345.31	≤ 3120	IS 11255 (PART 2): 1985
13.	Oxide of Nitrogen	mg/Nm ³	250.45	N.S.	IS 11255 (PART 7):2005
14.	Carbon Monoxide	ppm	2558.14	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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT

NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	Page 1 of 1 AL/TR/79-652/2024-25
		Report Date	06/04/2024
		Inward No	AL/8-787/07/2024-25
		Sampling Date	30/03/2024
Sample Location	Old Boiler (45 T/hr)-2 No.	Sampling Time	12:40 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A.	Stack Details				
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	04.00	N.S.	--
6.	Stack area	m ²	12.56	N.S.	--
B.	Parameters				
7.	Flue Gas Temperature	°C	124.0	N.S.	IS 11255 (PART 3) RA 2013
8.	Differential Pressure	mmwg	04.34	N.S.	IS 11255 (PART 3) RA 2013
9.	Velocity	m/s	07.88	N.S.	IS 11255 (PART 3) RA 2013
10.	Gas volume	Nm ³ /hr.	267508.28	N.S.	IS 11255 (PART 3) RA 2013
11.	Particulate Matter	mg/Nm ³	96.40	≤ 150	IS 11255 (PART 1) RA 2019
12.	Sulphur Dioxide	kg/day	122.69	<3920	IS 11255 (PART 2) RA 2019
13.	Oxide of Nitrogen	mg/Nm ³	144.85	N.S.	IS 11255 (PART 7) RA2022
14.	Carbon Monoxide	ppm	2442.65	N.S.	IS:13270(Part-3):2008

Details of equipment used and its Calibration Certificate

Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Flue Gas Analyzer	AK-VAYU-03	VAYU-098	03/05/2024
Stack Monitoring Kit Manual	AK-SMK-01	2250144	30/07/2024

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)



...End of Test report...


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

SOURCE EMISSION MONITORING REPORT		Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No AL/TR/79-653/2024-25
		Report Date 06/04/2024
		Inward No AL/8-787/08/2024-25
		Sampling Date 30/03/2024
Sample Location New Boiler (80 T/hr)-1 No.		Sampling Time 01:20 PM
Sample Collected By AARI,		Time duration 30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	72.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	03.54	N.S.	--
6.	Stack area	m ²	09.83	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	°C	137.0	N.S.	IS 11255 (PART 3) RA 2013
8.	Differential Pressure	mmwg	03.71	N.S.	IS 11255 (PART 3) RA 2013
9.	Velocity	m/s	07.40	N.S.	IS 11255 (PART 3) RA 2013
10.	Gas volume	Nm ³ /hr.	190620.32	N.S.	IS 11255 (PART 3) RA 2013
11.	Particulate Matter	mg/Nm ³	96.20	≤ 150	IS 11255 (PART 1) RA 2019
12.	Sulphur Dioxide	kg/day	1312.45	≤ 3120	IS 11255 (PART 2) RA 2019
13.	Oxide of Nitrogen	mg/Nm ³	263.32	N.S.	IS 11255 (PART 7) RA2022
14.	Carbon Monoxide	ppm	2565.26	N.S.	IS:13270(Part-3):2008
Details of equipment used and its Calibration Certificate					
Name of Equipment		Lab ID No.	Calibration Certificate No.		Validity
Flue Gas Analyzer		AK-VAYU-03	VAYU-098		03/05/2024
Stack Monitoring Kit Manual		AK-SMK-01	2250144		30/07/2024

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



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
ISO 9001: 2015 Certified Organization
ISO 45001 : 2018 Certified Organization

12

SOURCE EMISSION MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/79-654/2024-25
		Report Date	06/04/2024
		Inward No	AL/8-787/09/2024-25
		Sampling Date	30/03/2024
Sample Location	Incineration Boiler (Distillery)- 22T/hr-No-1	Sampling Time	01:50 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	DESCRIPTION	UNIT	RESULT	LIMITS	METHOD
A. Stack Details					
1.	Material of stack	--	RCC	N.S.	--
2.	Type of fuel	--	Bagasse	N.S.	--
3.	Stack Height from G.L.	m	60.00	N.S.	--
4.	Type of Stack	--	Round	N.S.	--
5.	Dimensions of Stack	m	01.52	N.S.	--
6.	Stack area	m ²	01.81	N.S.	--
B. Parameters					
7.	Flue Gas Temperature	° C	220.0	N.S.	IS 11255 (PART 3) RA 2013
8.	Differential Pressure	mmwg	03.66	N.S.	IS 11255 (PART 3) RA 2013
9.	Velocity	m/s	08.06	N.S.	IS 11255 (PART 3) RA 2013
10.	Gas volume	Nm ³ /hr.	31832.58	N.S.	IS 11255 (PART 3) RA 2013
11.	Particulate Matter	mg/Nm ³	28.40	≤ 150	IS 11255 (PART 1) RA 2019
12.	Sulphur Dioxide	kg/day	45.74	≤ 100	IS 11255 (PART 2) RA 2019
13.	Oxide of Nitrogen	mg/Nm ³	56.84	N.S.	IS 11255 (PART 7) RA2022
14.	Carbon Monoxide	ppm	61.45	N.S.	IS:13270(Part-3):2008

Details of equipment used and its Calibration Certificate

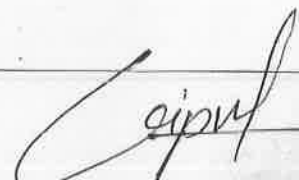
Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Flue Gas Analyzer	AK-VAYU-02	VAYU-097	03/05/2024
Stack Monitoring Kit Manual	AK-SMK-01	2250144	30/07/2024

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



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

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/76-468/23-23
		Report Date	09/12/2023
		Sampling Date	AL/8-492/06/23-24
		Inward Date	30/11/2023
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	01:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	78.36	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	23.96	IS:5182(Part-23):2006


Verified by
(Analyst)

...End of test report...


Authorized Signatory

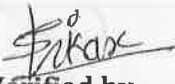


AKANKSHA ANALYTICAL & RESEARCH LAB

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

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/77-295/23-24
		Report Date	05/01/2024
		Sampling Date	AL/8-566/06/23-24
		Sampling Date	27/12/2023
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	02:05 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	75.26	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	24.23	IS:5182(Part-23):2006


Verified by
(Analyst)





Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

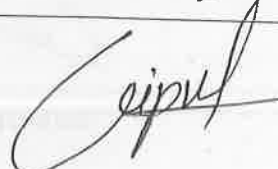
- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-008/23-24
		Report Date	05/02/2024
		Sampling Date	AL/8-641/06/23-24
		Sampling Date	27/01/2024
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	01:00 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	74.26	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	25.63	IS:5182(Part-23):2006


Verified by
(Analyst)

...End of test report...


Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-550/23-24
		Report Date	28/02/2024
		Sampling Date	AL/8-698/06/23-24
		Sampling Date	22/02/2024
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	12:10 PM
Sample Collected By	AARL	Time duration	08 Hr

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	72.36	IS:5182(Part-23):2006
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	28.45	IS:5182(Part-23):2006

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

ANALYSIS REPORT FOR AMBIENT AIR QUALITY MONITORING				Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/79-651/2024-25	
		Report Date	06/04/2024	
		Sampling Date	AL/8-787/06/2024-25	
		Sampling Date	30/03/2024	
Sample Location	Bagasse Yard {Fugitive Sample}	Sampling Time	01:30 PM	
Sample Collected By	AARL	Time duration	08 Hr	

SR.NO.	PARAMETER	UNIT	RESULT	METHOD
1.	Particulate matter-PM ₁₀ (less than 10 micron)	µg/m ³	68.95	IS:5182(Part-23)RA 2022
2.	Particulate matter-PM _{2.5} (less than 2.5 micron)	µg/m ³	32.45	IS:5182(Part-24):2019

Details of equipment used and its Calibration Certificate			
Name of Equipment	Lab ID No.	Calibration Certificate No.	Validity
Ambient Air Quality Machine	AK-AAQ-02	2250147	30/07/2024
Digital Weighing Balance	AL-DWB-01	2023/60146/01	27/06/2024
Spectrophotometer	AARL/SPM/02	2250120	01/08/2024
Atomic Absorption Spectrometer	AARL/AA/01	2250106	01/08/2024

Verified by
(Analyst)



...End of test report...

Authorized Signatory



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

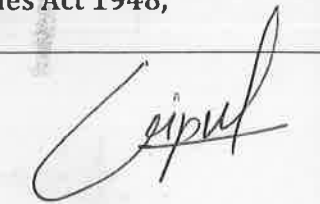
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT			Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/76-471/23-24
		Report Date	09/12/2023
		Inward No	AL/8-492/09/23-24
		Sampling Date	30/11/2023
Sample Location	Company Premises	Sampling Time	02:00 PM To 02:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Guest House	dB(A)	62.3	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Kandoba Temple	dB(A)	60.2		
3.	Near switch yard	dB(A)	61.2		
B. Inside of Shop					
4.	Mill House	dB(A)	71.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Boiling House	dB(A)	73.5		
6.	Near 80 TPH Boiler	dB(A)	74.2		

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...



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

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/77-298/23-24
		Report Date	05/01/2024
		Inward No	AL/8-566/09/23-24
		Sampling Date	27/12/2023
Sample Location	Company Premises	Sampling Time	01:00 PM To 01:30 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Sakhar Shala	dB(A)	61.2	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Senior College	dB(A)	62.5		
3.	Near Copy Yard	dB(A)	63.6		
B. Inside of Shop					
4.	Near Workshop	dB(A)	72.2	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near 13 MW Turbine	dB(A)	74.6		
6.	Near Sugar House	dB(A)	73.2		

REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)

...End of test report...




Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

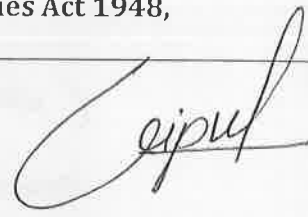
AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT		Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/78-011/23-24
		Report Date	05/02/2024
		Inward No	AL/8-641/09/23-24
		Sampling Date	27/01/2024
Sample Location	Company Premises	Sampling Time	12:30 PM To 01:00 PM
Sample Collected By	AARL	Time duration	30 Min

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near Switch Yard	dB(A)	68.1	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Petrol Pump	dB(A)	69.2		
3.	Near Colony	dB(A)	64.6		
B. Inside of Shop					
4.	Near Mill House	dB(A)	74.3	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near Boiling House	dB(A)	76.2		
6.	Near 45 TPH Boiler	dB(A)	77.3		

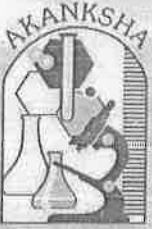
REMARK, OPINION & INTERPRITATION-

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


Verified by
(Analyst)


Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board , M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT				Page 1 of 1	
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406				Report No	AL/TR/78-553/23-24
				Report Date	28/02/2024
				Inward No	AL/8-698/09/23-24
				Sampling Date	22/02/2024
Sample Location	Company Premises			Sampling Time	01:30 PM To 02:00 PM
Sample Collected By	AARL			Time duration	30 Min

SR.NO	LOCATIONS	UNIT	RESULT	LIMITS	METHIOD
A. Outside of Shop					
1.	Near chichgai road	dB(A)	66.5	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2002
2.	Near Petrol Pump	dB(A)	70.8		
3.	Near sakhar shala	dB(A)	71.7		
B. Inside of Shop					
4.	Near Sugar House	dB(A)	76.3	≤ 90 dB(A)	IS 9989-1981 (RA 2001)
5.	Near work shop	dB(A)	74.5		
6.	Near 80 TPH Boiler	dB(A)	78.4		

REMARK, OPINION & INTERPRITATION-

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

Caipul

Authorized Signatory

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

AMBIENT & WORK ZONE NOISE LEVEL MONITORING REPORT				Page 1 of 1
NAME OF COMPANY:- M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		Report No	AL/TR/79-655/2024-25	
		Report Date	06/04/2024	
		Inward No	AL/8-787/10/2024-25	
		Sampling Date	30/03/2024	
Sample Location	Company Premises	Sampling Time	12:00 PM To 12:30 PM	
Sample Collected By	AARL	Time duration	30 Min	

SR. NO	LOCATIONS	UNIT	RESULT	LIMITS	METHOD
A. Outside of Shop					
1.	Near khandoba mandir	dB(A)	68.6	≤ 75 dB(A)	IS 4758-1968 (PART 10) RA 2017
2.	Near college	dB(A)	72.5		
3.	Near petrol pump	dB(A)	70.4		
B. Inside of Shop					
4.	Near mill house	dB(A)	77.5	≤ 90 dB(A)	IS 9989-1981 (RA 2020)
5.	Near boiling house	dB(A)	72.3		
6.	Near workshop	dB(A)	71.4		
Details of equipment used and its Calibration Certificate					
Name of Equipment		Lab ID No.	Calibration Certificate No.		Validity
Sound Level Meter		AK-SLM-05	2250141		30/07/2024

REMARK, OPINION & INTERPRITATION-

- ❖ All above results are within limits as per MPCB Consent The Factories Rule 1963, standards.

Signature
Verified by
(Analyst)



End of test report...

Signature
Authorized Signatory



AKANKSHA ANALYTICAL & RESEARCH LAB

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

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-189/2023-24
		Report Date	07/12/2023
		Inward No	12-012
		Inward Date	02/12/2023
Sample Testing Location	Laboratory	Analysis Start date	02/12/2023
Sample Detail	Well Water -Shri Ramesh Gaikwad (East Side)	Analysis End date	06/12/2023
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	2250 ml		

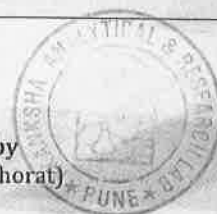
Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL.	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.59	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1620	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.85	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1053	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	141	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	293	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	624	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	129	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	72.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	110	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	53.3	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

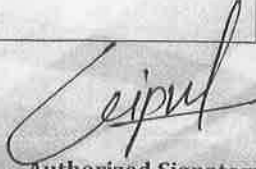
REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)


Reviewed by
(Mrs.Dhanashri Kadam-Thorat)




Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

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

13

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/70-186/2023-24
		Report Date	07/12/2023
		Inward No	12-009
		Inward Date	02/12/2023
Sample Testing Location	Laboratory	Analysis Start date	02/12/2023
Sample Detail	Well Water -Shri Nivruti Dhobale (West Side)	Analysis End date	06/12/2023
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	2250 ml		

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.68	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	892	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.53	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	580	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	63.6	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	237	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	270	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	54.1	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	32.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	21.8	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	7.37	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)



Authorized Signatory
(Mr.Vipul Waghmare)

...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

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/70-188/2023-24
		Report Date	07/12/2023
		Inward No	12-011
Sample Testing Location	Laboratory	Inward Date	02/12/2023
Sample Detail	Well Water -Shri Pandurang Walse (South Side)	Analysis Start date	02/12/2023
Sample Collected By	Party	Analysis End date	06/12/2023
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.72	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1851	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.80	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	141	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	384	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	676	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	141	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	77.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	118	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	48.0	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030,08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

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

TEST REPORT			Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-187/2023-24
		Report Date	07/12/2023
		Inward No	12-010
Sample Testing Location	Laboratory	Inward Date	02/12/2023
Sample Detail	Well Water -Shri Yogesh Pingle (North Side)	Analysis Start date	02/12/2023
Sample Collected By	Party	Analysis End date	06/12/2023
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.61	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1841	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.52	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1197	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	127	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	565	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	520	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	108	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	59.9	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	76.3	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	42.7	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibviewadi, Pune 411037. | Phone : 020-24240030,08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

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

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-191/2023-24
		Report Date	07/12/2023
		Inward No	AL/W/12-12/01/2023-24
		Inward Date	02/12/2023
Sample Testing Location	Laboratory		
Sample Detail	Well Water -Shri Vitthal Dhobale (East Side)	Analysis Start date	02/12/2023
Sample Collected By	Party	Analysis End date	06/12/2023
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.63	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1634	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
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	1065	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	148	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	296	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	634	≤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	72.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	116	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	58.3	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...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

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/70-446/2023-24	
		Report Date	03/01/2024	
		Inward No	12-278	
Sample Testing Location	Laboratory	Inward Date	28/12/2023	
Sample Detail	Well Water -Shri Ragunath Dobale(South East)	Analysis Start date	28/12/2023	
Sample Collected By	Party	Analysis End date	02/01/2024	
Sample Volume	2250 ml	Sample Condition	Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.25	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1609	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.82	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	992	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	140	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	330	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	535	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	103	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	66.7	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	230	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	47.8	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030,08530074787 | Email : akankshalab2007@gmail.com



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

NAME OF COMPANY & ADDRESS:		Report No	Page 1 of 1
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.		Report Date	AL/TR/70-444/2023-24
Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Inward No	03/01/2024
Sample Testing Location		Inward Date	12-276
Sample Detail		Analysis Start date	28/12/2023
Sample Collected By		Analysis End date	28/12/2023
Sample Volume		Sample Condition	02/01/2024
			Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.34	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOS/cm	1511	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.70	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	750	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	146	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	399	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	597	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	119	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	71.7	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	180	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	68.8	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030, 08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

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

TEST REPORT				Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-445/2023-24	
		Report Date	03/01/2024	
		Inward No	12-277	
Sample Testing Location	Laboratory	Inward Date	28/12/2023	
Sample Detail	Well Water -Shri Pravin Sabale (North East)	Analysis Start date	28/12/2023	
Sample Collected By	Party	Analysis End date	02/01/2024	
Sample Volume	2250 ml	Sample Condition	Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.13	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1431	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.60	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	896	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	116	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	353	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	556	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	107	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	69.2	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	162	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	51.4	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...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

TEST REPORT

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	Page 1 of 1 AL/TR/70-443/2023-24
		Report Date	03/01/2024
		Inward No	12-275
Sample Testing Location	Laboratory	Inward Date	28/12/2023
Sample Detail	Well water-Shri Suresh Giri House (North West)	Analysis Start date	28/12/2023
Sample Collected By	Party	Analysis End date	02/01/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.32	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1437	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.70	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	921	≤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 ₃	mg/lit	365	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	659	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	124	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	84.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	198	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	72.5	≤45.0	APHA 23 rd Edition 2017-4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030, 08530074787 | Email : akankshalab2007@gmail.com



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

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	Page 1 of 1 AL/TR/70-447/2023-24
		Report Date	03/01/2024
		Inward No	12-279
Sample Testing Location	Laboratory	Inward Date	28/12/2023
Sample Detail	Ghod Menna River Sangam	Analysis Start date	28/12/2023
Sample Collected By	Party	Analysis End date	02/01/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.15	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1255	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.49	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	803	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	233	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	23.9	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	144	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	54.4	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	1.98	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	150	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	24.9	≤45.0	APHA 23 rd Edition 2017-4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030, 08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-653/2023-24
		Report Date	03/02/2024
		Inward No	01-185
Sample Testing Location	Laboratory	Inward Date	27/01/2024
Sample Detail	Well Water -Shri Ramesh Gaikwad (East Side)	Analysis Start date	29/01/2024
Sample Collected By	Party	Analysis End date	02/02/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.16	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOS/cm	1307	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
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	850	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	106	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	390	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	367	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	106	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	24.5	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	81.6	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	41.2	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS:

M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. -
Pune-412406.

Sample Testing Location

Laboratory

Sample Detail

Borewell Water -Shri Nivruti
Dhobale (West Side)

Sample Collected By

Party

Sample Volume

2250 ml

Report No

AL/TR/70-654/2023-24

Report Date

03/02/2024

Inward No

01-186

Inward Date

27/01/2024

Analysis Start date

29/01/2024

Analysis End date

02/02/2024

Sample Condition

Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.07	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOS/cm	640	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.62	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	416	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	34.0	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	173	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	214	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	53.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	19.6	≤30.0	APHA 23 rd Edition 2017 3500-Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	24.3	≤200	APHA 23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	7.26	≤45.0	APHA 23 rd Edition 2017-4500-B-NO ₃
14.	Iron as Fe	mg/lit	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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

[Signature]

Prepared by
(Mrs.Vrushali kadam-Londhe)

[Signature]

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)



[Signature]

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS:

M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.
Dattatraynagar, Pargaon Village-Awasari Blk.Tal.-Ambegaon, Dist. -
Pune-412406.

Report No

AL/TR/70-652/2023-24

Report Date

03/02/2024

Inward No

01-184

Inward Date

27/01/2024

Sample Testing Location

Laboratory

Sample Detail

Well Water - Shri Pandhurang
Walse (South Side)

Analysis Start date

29/01/2024

Sample Collected By

Party

Analysis End date

02/02/2024

Sample Volume

2250 ml

Sample Condition

Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.25	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1898	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.43	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	1234	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	160	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	260	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	816	≤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	120	≤30.0	APIIA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	156	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	50.8	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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

(Mrs.Vrushali kadam-Londhe)

Reviewed by

(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses,
Bibvewadi, Pune 411037. | Phone : 020-24240030,08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-655/2023-24
		Report Date	03/02/2024
		Inward No	01-187
Sample Testing Location	Laboratory	Inward Date	27/01/2024
Sample Detail	Well Water -Shri Yogesh Pingale (North side)	Analysis Start date	29/01/2024
Sample Collected By	Party	Analysis End date	02/02/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	---	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.10	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1227	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.70	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	798	≤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 ₃	mg/lit	325	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	387	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	110	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	27.0	<30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	79.4	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	40.9	≤45.0	APHA 23 rd Edition 2017-4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses,
Bibvewadi, Pune 411037. | Phone : 020-24240030,08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412106.		Report No	AL/TR/70-656/2023-24
		Report Date	03/02/2024
		Inward No	01-188
		Inward Date	27/01/2024
Sample Testing Location	Laboratory		
Sample Detail	Well Water -Shri Santosh Shinde(East Side)	Analysis Start date	29/01/2024
Sample Collected By	Party	Analysis End date	02/02/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.21	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1456	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.55	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	947	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	116	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	260	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	550	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	179	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	24.5	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	158	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	51.3	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.03	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
(Mrs.Dhanashri Kadam-Thorat)

Authorized Signatory
(Mr.Vipul Waglimare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

TEST REPORT				Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-868/2023-24	
		Report Date	28/02/2024	
Sample Testing Location		Inward No	02-181	
		Inward Date	22/02/2024	
Sample Detail	Borewell Water - Shri Rohidas Dhobale	Analysis Start date	23/02/2024	
Sample Collected By	Party	Analysis End date	27/02/2024	
Sample Volume	2250 ml	Sample Condition	Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.15	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1146	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.38	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	97.8	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	364	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	400	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	84.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	45.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	75.3	≤200	APHA- 23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	43.9	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Culi	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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
Mrs.Dhanashree Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-869/2023-24
		Report Date	28/02/2024
		Inward No	02-182
		Inward Date	22/02/2024
Sample Testing Location	Laboratory		
Sample Detail	Borewell Water -Shri. Machindra Kute	Analysis Start date	23/02/2024
Sample Collected By	Party	Analysis End date	27/02/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.22	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1155	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	7.23	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	751	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	103	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	364	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	400	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	84.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	45.6	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	71.2	<200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	43.2	≤45.0	APHA 23 rd Edition 20174500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
Mrs.Dhanashree Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village- Awasari Blk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-870/2023-24
		Report Date	28/02/2024
		Inward No	02-183
		Inward Date	22/02/2024
Sample Testing Location	Laboratory		
Sample Detail	Borewell Water -Shri. Vishwanath Narhe	Analysis Start date	23/02/2024
Sample Collected By	Party	Analysis End date	27/02/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	---	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.19	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1458	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
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	948	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	127	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	250	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	580	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	128	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	62.4	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	207	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	53.5	≤45.0	APHA 23 rd Edition 2017-4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.02	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
Mrs.Dhanashree Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

16

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-871/2023-24
		Report Date	28/02/2024
		Inward No	02-184
		Inward Date	22/02/2024
Sample Testing Location	Laboratory		
Sample Detail	Borewell Water -Shri. Vitthal Dhobale	Analysis Start date	23/02/2024
Sample Collected By	Party	Analysis End date	27/02/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.57	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	858	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
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	558	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	78.3	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	302	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	260	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	56.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	28.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	44.2	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	21.5	≤45.0	APHA 23 rd Edition 2017-4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
Mrs.Dhanashree Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

16

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001: 2018 Certified Organization

TEST REPORT				Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/70-872/2023-24	
		Report Date	28/02/2024	
		Inward No	02-185	
		Inward Date	22/02/2024	
Sample Testing Location	Laboratory	Analysis Start date	23/02/2024	
Sample Detail	Well Water - Shri Balasaheb Dhobale			
Sample Collected By	Party	Analysis End date	27/02/2024	
Sample Volume	2250 ml	Sample Condition	Fit For Analysis	

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.48	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOs/cm	1353	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.07	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/lit	880	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/lit	88.1	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/lit	499	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/lit	390	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/lit	60.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/lit	57.6	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/lit	93.0	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/lit	31.7	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/lit	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-Londhe)

Reviewed by
Mrs.Dhanashree Thorat)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

17

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/80-218/2024-25	
		Report Date	06/04/2024	
		Inward No	03-275	
		Inward Date	30/03/2024	
Sample Testing Location	Laboratory			
Sample Detail	Well Water Shri Bharat Dhobale(South -East)		Analysis Start date	01/04/2024
Sample Collected By	Party		Analysis End date	05/04/2024
Sample Volume	2250 ml		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.19	≤1.00	IS3025(Part-10)2023
4.	Conductivity	μMHOs/cm	1413.85	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.41	6.5 to 8.5	IS 3025 (Part 11) RA 2022 Electrometric Method
6.	Total Dissolved Solids	mg/l	919	≤500	IS 3025 (Part 16) RA 2023 Gravimetric Method
7.	Chlorides as Cl	mg/l	121.42	≤250	IS3025(Part-32) RA 2019 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/l	447.3	≤200	IS3025(Part-23)RA 2023
9.	Total Hardness as CaCO ₃	mg/l	393	≤200	IS3025(Part-21) RA 2009 EDTA Titrimetric method
10.	Calcium as Ca	mg/l	48.0	≤75.0	IS3025(Part-40) RA 2019 EDTA Method
11.	Magnesium as Mg	mg/l	65.0	≤30.0	APHA 24 th Edition 2023 - 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/l	72.88	≤200	APIIA-24 th Edition 2023 4500-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/l	51.71	≤45.0	APHA 24 th Edition 2023 4500 B - NO ₃
14.	Iron as Fe	mg/l	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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

(Signature)

Prepared by
(Mrs.Vrushali kadam-londhe)

(Signature)

Reviewed by
(Ms.Sonali Mohite)
...End of test report...



(Signature)
Authorized Signatory
Mr.Vipul Waghmare



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/80-219/2024-25
		Report Date	06/04/2024
		Inward No	03-276
		Inward Date	30/03/2024
Sample Testing Location	Laboratory	Analysis Start date	01/04/2024
Sample Detail	Borewell Water - Shri Mayur Dhobale(South -West)		
Sample Collected By	Party		
Sample Volume	2250 ml		
		Analysis End date	05/04/2024
		Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.24	≤1.00	IS3025(Part-10)2023
4.	Conductivity	μMHOs/cm	1512.31	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.23	6.5 to 8.5	IS 3025 (Part 11) RA 2022 Electrometric Method
6.	Total Dissolved Solids	mg/l	983	≤500	IS 3025 (Part 16) RA 2023 Gravimetric Method
7.	Chlorides as Cl	mg/l	121.42	≤250	IS3025(Part-32) RA 2019 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/l	319.5	≤200	IS3025(Part-23)RA 2023
9.	Total Hardness as CaCO ₃	mg/l	555	≤200	IS3025(Part-21) RA 2009 EDTA Titrimetric method
10.	Calcium as Ca	mg/l	157	≤75.0	IS3025(Part-40) RA 2019 EDTA Method
11.	Magnesium as Mg	mg/l	38.0	≤30.0	APHA 24 th Edition 2023 - 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/l	156.38	≤200	APHA-24 th Edition 2023 4500-E- SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/l	47.42	≤45.0	APHA 24 th Edition 2023 4500 B - NO ₃
14.	Iron as Fe	mg/l	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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

(Mrs.Vrushali kadam-londhe)

Reviewed by

(Ms.Sonali Mohite)

...End of test report

Authorized Signatory

(Mr.Vipul Waghmare)



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

Page 1 of 1

NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/80-220/2024-25
		Report Date	06/04/2024
		Inward No	03-277
		Inward Date	30/03/2024
Sample Testing Location	Laboratory	Analysis Start date	01/04/2024
Sample Detail	Borewell Water - Shri Pandurang Karande (North -East)	Analysis End date	05/04/2024
Sample Collected By	Party	Sample Condition	Fit For Analysis
Sample Volume	2250 ml		

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.35	≤1.00	IS3025(Part-10)2023
4.	Conductivity	μMHOs/cm	767.69	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.47	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/l	499	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/l	48.57	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/l	159.7	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/l	121	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/l	24.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/l	14.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/l	9.33	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/l	1.44	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/l	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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

(Signature)

Prepared by
(Mrs.Vrushali kadam-londhe)

(Signature)

Reviewed by
(Ms.Sonali Mohite)

...End of test report...



(Signature)
Authorized Signatory
(Mr.Vipul Waghmare)



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT

NAME OF COMPANY & ADDRESS:		Report No	Page 1 of 1
M/s. Bhima Shankar Sahakari Sakhar Karkhana Ltd.		Report Date	AL/TR/80-221/2024-25
Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune 412406.		Inward No	06/04/2024
Sample Testing Location		Inward Date	03-278
Sample Detail		Analysis Start date	30/03/2024
Sample Collected By		Analysis End date	01/04/2024
Sample Volume		Sample Condition	05/04/2024
			Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.24	≤1.00	IS3025(Part-10)2023
4.	Conductivity	μMHOs/cm	789.23	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.50	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/l	513	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/l	48.57	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/l	159.7	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/l	131	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/l	20.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/l	19.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/l	9.65	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/l	1.43	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/l	BDL	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15.	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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

(Signature)

Prepared by
(Mrs.Vrushali kadam-londhe)

(Signature)

Reviewed by
(Ms.Sonali Mohite)



(Signature)

Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

Office and Laboratory : S. No. 613, Plot No. 5, Gangadham Phase-I, Opp. Ganga Landmark Row Houses, Bibvewadi, Pune 411037. | Phone : 020-24240030,08530074787 | Email : akankshalab2007@gmail.com



AKANKSHA ANALYTICAL & RESEARCH LAB

- Recognized by Central Pollution Control Board, M/o Environment, Forest & Climate Change, Govt. of India.
- ISO 9001: 2015 Certified Organization
- ISO 45001 : 2018 Certified Organization

TEST REPORT			Page 1 of 1
NAME OF COMPANY & ADDRESS: M/s. Bhima Shankar Sahakari Sakhar Karlhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk.Tal.-Ambegaon, Dist. - Pune-412406.		Report No	AL/TR/80-222/2024-25
		Report Date	06/04/2024
		Inward No	03-279
		Inward Date	30/03/2024
Sample Testing Location	Laboratory		
Sample Detail	well Water - Shri Ramdas Chavan (South side)	Analysis Start date	01/04/2024
Sample Collected By	Party	Analysis End date	05/04/2024
Sample Volume	2250 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Desirable limits as per IS:10500, 2012	Method Ref
A) PHYSICAL ANALYSIS					
1.	Colour	Hazen	BDL	≤5.00	IS3025(Part-4)
2.	Odour	--	Unobjectionable	Unobjectionable	IS3025(Part-5)
3.	Turbidity@ 25°C	NTU	0.11	≤1.00	IS3025(Part-10)
4.	Conductivity	μMHOS/cm	1416.92	N.S	IS 3025 (Part 14):2013
B) CHEMICAL ANALYSIS					
5.	pH @ 25°C	---	8.24	6.5 to 8.5	IS 3025 (Part 11) RA 2012 Electrometric Method
6.	Total Dissolved Solids	mg/l	921	≤500	IS 3025 (Part 16) RA 2012 Gravimetric Method
7.	Chlorides as Cl	mg/l	131.13	≤250	IS3025(Part-32) RA 2009 Argentometric Method
8.	Total Alkalinity as CaCO ₃	mg/l	308.8	≤200	IS3025(Part-23)RA 2009
9.	Total Hardness as CaCO ₃	mg/l	525	≤200	IS3025(Part-21) RA 2014 EDTA Titrimetric method
10.	Calcium as Ca	mg/l	96.0	≤75.0	IS3025(Part-40) RA 2009 EDTA Method
11.	Magnesium as Mg	mg/l	67.0	≤30.0	APHA 23 rd Edition 2017 3500- Mg B Calculation method
12.	Sulphate as SO ₄	mg/l	139.20	≤200	APHA-23 rd Edition 2017-E-SO ₄ ²⁻
13.	Nitrate as NO ₃	mg/l	48.31	≤45.0	APHA 23 rd Edition 2017 4500-B-NO ₃
14.	Iron as Fe	mg/l	0.01	≤0.3	IS3025(Part-53)
C) BACTERIOLOGICAL ANALYSIS					
15	Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
16.	Fecal Coliform	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014
17.	E- Coli	MPN/100ml	Present	Absent	IS1622:1981 Reaff.2014

REMARK-

- ❖ 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
(Mrs.Vrushali kadam-londhe)

Reviewed by
(Ms.Sonali Mohi)



Authorized Signatory
(Mr.Vipul Waghmare)

...End of test report...

