

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORT		Page 1 of 1	
NAME OF COMPANY: M/s.Bhimashankar sahakari sakhar Karkhana Ltd. Dattatraynagar,Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AL/TR/31-499/2018-19
		Report Date	26/11/2018
		Inward No	11-132
		Inward Date	19/11/2018
Sample Detail	ETP Anaerobic Tank Outlet	Analysis Start date	20/11/2018
Sample Collected By	AARL	Analysis End date	26/11/2018
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH	-----	6.61	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	89.0	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	6441	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	4049	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	800	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	148	600 Max.	IS 3025 (Part 40 RA 2009 Argentometric method
7.	Sulphate	mg/lit.	1013	1000 Max.	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	10 Max.	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ The above Treated Effluent Water sample is not within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*S.R. Warnulkar*

Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORT		Page 1 of 1	
NAME OF COMPANY: <b>M/s.Bhimashankar sahakarl sakhar karkhana Ltd.</b> Dattatraynagar,Pargaon Village-Awasari Bk. Tal.-Ambegaon, Dist. - Pune-412406		Report No	AL/TR/31-497/2018-19
		Report Date	26/11/2018
		Inward No	11-130
		Inward Date	19/11/2018
Sample Detail	Untreated Effluent Sample	Analysis Start date	20/11/2018
Sample Collected By	AARL	Analysis End date	26/11/2018
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Method
1.	pH	-----	5.87	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	196	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	3209	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	3057	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	620	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	49.3	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	1987	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORT		Page 1 of 1	
NAME OF COMPANY: <b>M/s.Bhimashankar sahakari sakhar Karkhana Ltd.</b> Dattatraynagar,Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		Report No	AL/TR/31-137/2018-19
		Report Date	26/11/2018
		Inward No	11-131
		Inward Date	19/11/2018
Sample Detail	Treated Effluent Sample	Analysis Start date	20/11/2018
Sample Collected By	AARL	Analysis End date	26/11/2018
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH	-----	6.54	5.5 to 9.0	IS 3025 (Part 11) RA 2012Electrometric method
2.	Total Suspended Solids	mg/lit.	98.0	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	2003	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	235	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	87.0	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	98.6	600 Max.	IS 3025 (Part 40 RA 2009 Argentometric method
7.	Sulphate	mg/lit.	786	1000 Max.	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	10 Max.	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ The above Treated Effluent Water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*S.R. Warnulkar*

Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/44-849/18-19
		DATE	24/11/2018
		INWARD NO.	AL/5-838/01/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Pamdurang Vasti (South side)	19/11/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	28.0	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	7.12	80
4.	Oxides of Nitrogen ( NOx )	µg/m <sup>3</sup>	8.45	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	32.5	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.3	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	13.6	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.60	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

*S. H. Sawant*

(Lab In charge)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/44-850/18-19
		DATE	24/11/2018
		INWARD NO.	AL/5-838/02/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Chichgai Mala (East side)	19/11/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	28.5	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	6.52	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	6.60	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	30.3	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	12.0	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	13.5	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.64	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

(Lab In charge)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406	TR NO	AL/TR/AM/44-851/18-19	
	DATE	24/11/2018	
	INWARD NO.	AL/5-838/03/18-19	
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Mali mala (West side)	19/11/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	32.5	---
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	8.20	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	9.45	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	32.4	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	11.2	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	13.6	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.72	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

*S. H. Vaidya*

(Lab In charge)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/44-852/18-19
		DATE	24/11/2018
		INWARD NO.	AL/5-838/04/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Tanishka Lawns (North Side)	19/11/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	27.4	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	6.45	80
4.	Oxides of Nitrogen ( NOx)	µg/m <sup>3</sup>	7.20	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	28.6	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.2	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	12.8	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.52	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

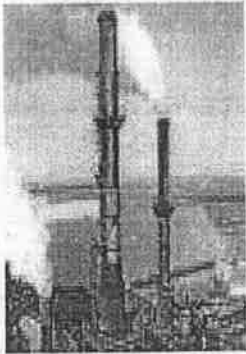
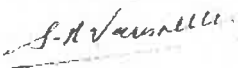
*S. H. Varnali*

(Lab In charge)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORTS FOR STACK EMISSION -PROCESS			
Sample Report No.	AL/TR/AM/44-853/18-19		
Name of company	M/s. <i>Bhlma Sahankar Sahakari Sakhar Karkhana Ltd.</i> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	19/11/2018	Time of Sampling: Daytime	
Report Date	24/11/2018	Inward No	AI/5-838/05/18-19
PARTICULARS OF STACK			
	Attached to	Boiler Stack 2 New Stack (80 T/Hr.)	
	Diameter	3.54 mtr	
	Height	73 Mtr.	
	Area	9.837 m <sup>2</sup>	
	Temperature	130 <sup>0</sup> C	
	Differential Pressure	1.23 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	4.21 m/s	
	Volume of gas	110706.77 NM <sup>3</sup> /Hr.	
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	138	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	1595	< 3886	Kg/day
Oxide of Nitrogen	352	--	mg/Nm <sup>3</sup>
Carbon Monoxide	3060	--	ppm
Note :- All limits as per MPCB For Akanksha Analytical & Research Lab			
			
(Lab In charge)			



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORTS FOR STACK EMISSION -PROCESS			
Sample Report No.	AL/TR/AM/44-854/18-19		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	19/11/2018	Time of Sampling: Daytime	
Report Date	24/11/2018	Inward No	AI/5-838/06/18-19
PARTICULARS OF STACK			
	Attached to	Boiler Stack 1 Old Stack (37 T/Hr.)	
	Diameter	4.00 mtr	
	Height	60 Mtr.	
	Area	12.56 m <sup>2</sup>	
	Temperature	128 <sup>0</sup> C	
	Differential Pressure	0.80 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	3.40 m/s	
	Volume of gas	114277.42NM <sup>3</sup> /Hr.	
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	96.5	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	36.30	< 3886	Kg/day
Oxide of Nitrogen	260	--	mg/Nm <sup>3</sup>
Carbon Monoxide	2584	--	ppm
Note :- All limits as per MPCB For Akanksha Analytical & Research Lab			
(Lab In charge)			

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORT

Page 1 of 1

NAME OF COMPANY: <b>M/s.Bhimashankar sahakari sakhar Karkhana Ltd.</b> Dattatraynagar,Pargaon Village-Awasari Bk. Tal.-Ambegaon, Dist. – Pune-412406		<b>Report No</b>	AL/TR/31-771/2018-19
		<b>Report Date</b>	10/01/2019
		<b>Inward No</b>	12-192
		<b>Inward Date</b>	28/12/2018
<b>Sample Detail</b>	Treated Effluent Sample	<b>Analysis Start date</b>	29/12/2018
<b>Sample Collected By</b>	AARL	<b>Analysis End date</b>	09/01/2019
<b>Sample Volume</b>	3000 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH	----	6.90	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	13.0	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	273	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	29.6	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	6.00	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	38.8	600 Max.	IS 3025 (Part 40 RA 2009 Argentometric method
7.	Sulphate	mg/lit.	14.7	1000 Max.	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	10 Max.	APHA-23 <sup>rd</sup> Edition 2017 5520 B

### REMARK, OPINION & INTERPRITATION-

- ❖ The above Treated Effluent Water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Aishwarya*  
Verified by  
(Analyst)

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



ANALYSIS REPORT		Page 1 of 1	
NAME OF COMPANY: <b>M/s.Bhimashankar sahakari sakhar karkhana Ltd.</b> Dattatraynagar, Pargaon Village-Awasari Bk. Tal.-Ambegaon, Dist. – Pune-412406		Report No	AL/TR/31-770/2018-19
		Report Date	10/01/2019
		Inward No	12-191
		Inward Date	28/12/2018
Sample Detail	Untreated Effluent Sample	Analysis Start date	29/12/2018
Sample Collected By	AARL	Analysis End date	09/01/2019
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sl. NO.	Parameter	Unit	Result	Method
1.	pH	-----	4.00	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	361	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	4439	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	1695	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	560	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	102	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	180	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ Sample will be preserve for seven days after analysis. .
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Aishwarya*  
Verified by  
(Analyst)

*S. R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



MAIL IN 5463

Date. 16/1/2019

## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhimu Suhankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO AL/TR/AM/45-934/18-19	
		DATE 07/01/2019	
		INWARD NO. AL/5-905/01/18-19	
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Pathar Vasti (South-East)	28/12/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	25.8	---
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	5.12	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	4.60	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	26.9	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	7.60	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.0	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.30	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

*S. A. Varnellu*

Lab In charge

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/45- 935/18-19
		DATE	07/01/2019
		INWARD NO.	AL/5-905/02/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Vaidya Vasti (South West)	28/12/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	26.5	---
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	6.20	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	7.15	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	27.5	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.3	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	16.8	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.35	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

**For Akanksha Analytical & Research Lab**

*S. H. Varnell*

**Lab In charge**

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/45-936/18-19
		DATE	07/01/2019
		INWARD NO.	AL/5-905/03/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Dhobale Vasti (North West)	28/12/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	26.4	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	5.80	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	7.40	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	28.3	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	11.5	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	16.9	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.40	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

*S. A. Vannal*

Lab In charge

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk, Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/45-937/18-19
		DATE	07/01/2019
		INWARD NO.	AL/5-905/04/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON:
Ambient Air	AARL	Kathapur Road (North East)	28/12/2018

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	27.0	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	10.5	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	11.3	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	32.8	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	13.4	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	16.8	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.60	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

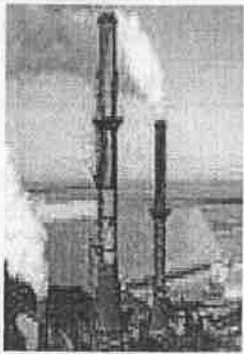
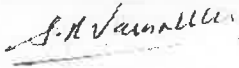
*S. H. Varnellu*

Lab In charge

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



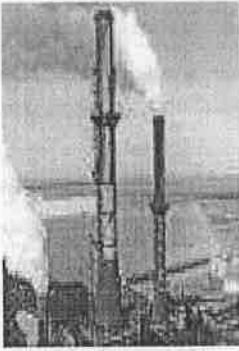
ANALYSIS REPORTS FOR STACK EMISSION -PROCESS			
Sample Report No.	AL/TR/AM/45-938/18-19		
Name of company	M/s. <b>Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	28/12/2018	Time of Sampling: Daytime	
Report Date	07/01/2019	Inward No	Al/5-905/05/18-19
PARTICULARS OF STACK			
	Attached to	Boiler Stack 2 New Stack (80 T/Hr.)	
	Diameter	3.54 mtr	
	Height	73 Mtr.	
	Area	9.837 m2	
	Temperature	138°C	
	Differential Pressure	1.20 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	4.21 m/s	
	Volume of gas	108278.91 NM3/Hr.	
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	129	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	1655	< 3886	Kg/day
Oxide of Nitrogen	360	--	mg/Nm <sup>3</sup>
Carbon Monoxide	3130	--	ppm
Note :- All limits as per MPCB For Akanksha Analytical & Research Lab  <b>Lab In charge</b>			



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORTS FOR STACK EMISSION -PROCESS			
Sample Report No.	AL/TR/AM/45-939/18-19		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	28/12/2018	Time of Sampling: Daytime	
Report Date	07/01/2019	Inward No	Al/5-905/06/18-19
PARTICULARS OF STACK			
	Attached to	Boiler Stack 1 Old Stack (37 T/Hr.)	
	Diameter	4.00 mtr	
	Height	60 Mtr.	
	Area	12.56 m2	
	Temperature	128°C	
	Differential Pressure	0.82 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	3.48 m/s	
	Volume of gas	114280.89NM3/Hr.	
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	103.0	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	35.60	< 3886	Kg/day
Oxide of Nitrogen	246	--	mg/Nm <sup>3</sup>
Carbon Monoxide	2612	--	ppm
Note :- All limits as per MPCB <b>For Akanksha Analytical &amp; Research Lab</b> <i>S. K. Varnali</i> <b>Lab In charge</b>			

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY:</b> M/s.Bhimashankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.-Ambegaon, Dist. – Pune-412406		Report No	AL/TR/31-939/2018-19
		Report Date	30/01/2019
		Inward No	01-161
		Inward Date	23/01/2019
Sample Detail	Untreated Effluent Sample	Analysis Start date	24/01/2019
Sample Collected By	AARL	Analysis End date	29/01/2019
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Method
1.	pH	-----	3.78	IS 3025 (Part 11) RA 2012 Electometric method
2.	Total Suspended Solids	mg/lit.	2558	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	13652	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	54251	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	18000	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	613	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	1063	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	249	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Aishwarya*  
Verified by  
(Analyst)

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY:</b> M/s.Dhimashankar sahakari sakhar Karkhana Ltd. Dattatraynagar,Pargaon Village-Awasari Bk. Tal.-Ambegaon, Dist. - Pune-412406		Report No	AL/TR/31-940/2018-19
		Report Date	30/01/2019
		Inward No	01-162
		Inward Date	23/01/2019
Sample Detail	Treated Effluent Sample	Analysis Start date	24/01/2019
Sample Collected By	AARL	Analysis End date	29/01/2019
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH	-----	7.26	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electometric method
2.	Total Suspended Solids	mg/lit.	66.0	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	979	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	129	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	26.0	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	88.2	600 Max.	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	80.2	1000 Max.	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	10 Max.	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ The above Treated Effluent Water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Aishwarya*  
Verified by  
(Analyst)

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,

Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.

An ISO 9001:2008, OHSAS 18001:2007 Certified Company

Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727

## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/46-303/18-19
		DATE	28/01/2019
		INWARD NO.	AL/5-946/01/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Main Gate	23/01/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	28.5	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	38.4	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	29.9	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	74.8	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	32.5	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.5	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.60	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL: Below Detectable Limit:

For Akanksha Analytical & Research Lab

*S. N. Venkatesh*  
(Lab In Charge)

*Aishwarya*  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORT

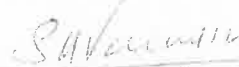
NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/46-304/18-19
		DATE	28/01/2019
		INWARD NO.	AL/5-946/02/18-19
SAMPLE :- Ambient Air	COLLECTED BY AARL	SAMPLE REF. Kata Gate	RECEIVED ON : 23/01/2019


Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	28.7	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	36.9	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	32.3	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	76.5	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	30.9	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.2	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.74	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

  
(Lab In Charge)

  
(Chemist)



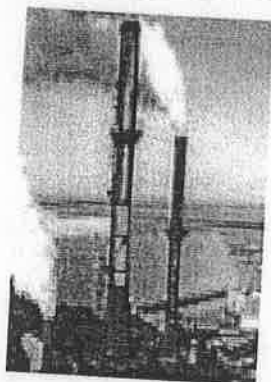
# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
 Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
 An ISO 9001:2008, OHSAS 18001:2007 Certified Company.  
 Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727

## ANALYSIS REPORTS FOR STACK EMISSION - PROCESS

Sample Report No.	AL/TR/AM/46-305/18-19		
Name of company	M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	23/01/2019	Time of Sampling: Daytime	
Report Date	28/01/2019	Inward No	Al/5-946/03/18-19

### PARTICULARS OF STACK



Attached to	Boiler Stack 2 New Stack (80 T/Hr.)
Diameter	3.54 mtr
Height	73 Mtr.
Area	9.837 m <sup>2</sup>
Temperature	134 <sup>0</sup> C
Differential Pressure	1.20 mmWG
Material of Construction	RCC
Velocity of Gases	4.19 m/s
Volume of gas	108809.69 NM <sup>3</sup> /Hr.

### POLLUTIONAL PARAMETERS

PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	135	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	1614	< 3886	Kg/day
Oxide of Nitrogen	350	--	mg/Nm <sup>3</sup>
Carbon Monoxide	3230	--	ppm

Note :- All limits as per MPCB  
 For Akanksha Analytical & Research Lab

*[Signature]*  
 (Lab-In Charge)

*[Signature]*  
 (Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

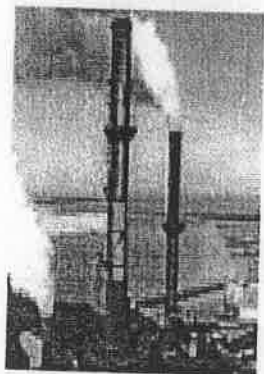
Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORTS FOR STACK EMISSION -PROCESS

Sample Report No.	AL/TR/AM/46-306/18-19		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	23/01/2019	Time of Sampling: Daytime	
Report Date	28/01/2019	Inward No	AI/5-946/04/18-19

### PARTICULARS OF STACK




Attached to	Boiler Stack 1 Old Stack (37 T/Hr.)
Diameter	4.00 mtr
Height	60 Mtr.
Area	12.56 m <sup>2</sup>
Temperature	130 <sup>0</sup> C
Differential Pressure	0.80 mmWG
Material of Construction	RCC
Velocity of Gases	3.40 m/s
Volume of gas	113993.50NM <sup>3</sup> /Hr.

### POLLUTIONAL PARAMETERS

PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	102	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	38.60	< 3886	Kg/day
Oxide of Nitrogen	245	--	mg/Nm <sup>3</sup>
Carbon Monoxide	2630	--	ppm

Note :- All limits as per MPCB  
- For Akanksha Analytical & Research Lab

  
(Lab In Charge)

  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB



Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727

## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/46-785/18-19
		DATE	23/02/2019
		INWARD NO.	AL/5-984/01/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Kathapur Road (East Side)	19/02/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	32.2	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	13.6	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	12.5	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	34.2	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	12.6	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.3	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.68	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS:

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

*Savanna*  
(Lab In Charge)

*Ashwani*  
(Chemist)

मीलनांतर सुकनी भाकर कायनाम वि.  
पुणे महानगरपालिका  
दिवस - 213/2019



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORT


NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/46-786/18-19
		DATE	23/02/2019
		INWARD NO.	AL/5-984/02/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Vaidya Vasti (West Side)	19/02/2019


Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	32.8	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	6.50	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	7.24	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	26.8	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.5	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.0	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.40	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

  
(Lab In Charge)

  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORT

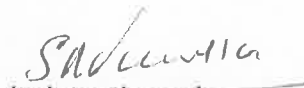
NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/46-787/18-19
		DATE	23/02/2019
		INWARD NO.	AL/5-984/03/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Pathar Vasti (South-Side)	19/02/2019

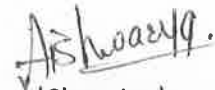
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	33.0	---
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	5.42	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	4.30	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	25.8	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	7.50	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.3	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.37	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

  
(Lab In Charge)

  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORT

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO AL/TR/AM/46-788/18-19	
		DATE 23/02/2019	
		INWARD NO. AL/5-984/04/18-19	
SAMPLE :- Ambient Air	COLLECTED BY AARL	SAMPLE REF. Chinchgai Vasti (North Side)	RECEIVED ON : 19/02/2019


Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	32.6	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	5.45	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	7.80	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	26.9	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.6	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.2	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.48	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

Note :- All limits as per NAAQS.

BDL : Below Detectable Limit.

For Akanksha Analytical & Research Lab

  
(Lab In Charge)

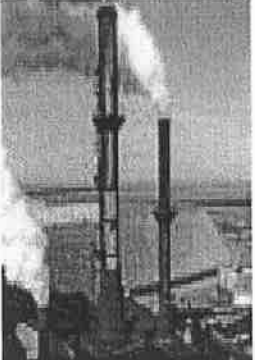
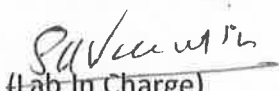
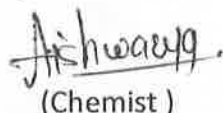
  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company



Approved from "ACMAAPK" Vide File No. 11036/15/09/Lab. 12727  
**ANALYSIS REPORTS FOR STACK EMISSION - PROCESS**

Sample Report No.	AL/TR/AM/46-789/18-19		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	19/02/2019	Time of Sampling: Daytime	
Report Date	23/02/2019	Inward No	AI/5-984/05/18-19
<b>PARTICULARS OF STACK</b>			
	Attached to	Boiler Stack (80 T/Hr.)	
	Diameter	3.54 mtr	
	Height	73 Mtr.	
	Area	9.837 m2	
	Temperature	135 <sup>0</sup> C	
	Differential Pressure	1.19 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	4.18 m/s	
	Volume of gas	108222.50 NM3/Hr.	
<b>POLLUTIONAL PARAMETERS</b>			
<b>PARAMETER</b>	<b>RESULTS</b>	<b>LIMITS</b>	<b>UNITS</b>
Particulate Matter	126	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	1652	< 3886	Kg/day
Oxide of Nitrogen	325	--	mg/Nm <sup>3</sup>
Carbon Monoxide	3090	--	ppm
Note :- All limits as per MPCB For Akanksha Analytical & Research Lab			
 (Lab In Charge)		 (Chemist)	

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company



Approved from "ACMPC" Vide File No. 11035/11/99/Lab-1777  
**ANALYSIS REPORTS FOR STACK EMISSION - PROCESS**

Sample Report No.	AL/TR/AM/46-790/18-19		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	19/02/2019	Time of Sampling: Daytime	
Report Date	23/02/2019	Inward No	AI/5-984/06/18-19

## PARTICULARS OF STACK

	Attached to	Boiler Stack (37 T/Hr.)
	Diameter	4.00 mtr
	Height	60 Mtr.
	Area	12.56 m <sup>2</sup>
	Temperature	130°C
	Differential Pressure	0.80 mmWG
	Material of Construction	RCC
	Velocity of Gases	3.40 m/s
	Volume of gas	113993.50NM <sup>3</sup> /Hr.

## POLLUTIONAL PARAMETERS

PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	105.0	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	36.90	< 3886	Kg/day
Oxide of Nitrogen	240	--	mg/Nm <sup>3</sup>
Carbon Monoxide	2850	--	ppm

Note :- All limits as per MPCB  
For Akanksha Analytical & Research Lab

(Lab In Charge)

(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## TEST REPORT

Page 1 of 1

<b>NAME OF COMPANY:</b> M/s. Bhima Shankar sahakari sakhar karkhana Ltd. Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. – Pune-412406		<b>Report No</b>	AL/TR/32-153/2018-19
		<b>Report Date</b>	26/02/2019
		<b>Inward No</b>	02-175
		<b>Inward Date</b>	19/02/2019
<b>Sample Detail</b>	Untreated Effluent Sample	<b>Analysis Start date</b>	20/02/2019
<b>Sample Collected By</b>	AARL	<b>Analysis End date</b>	25/02/2019
<b>Sample Volume</b>	3000 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Method
1.	pH	----	4.49	IS 3025 (Part 11) RA 2012 Electometric method
2.	Total Suspended Solids	mg/lit.	287	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	2243	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	5583	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	1100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	216	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	467	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	APHA-23 <sup>rd</sup> Edition 2017 5520 B

### REMARK, OPINION & INTERPRITATION-

- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Aishwarya*

Verified by  
(Analyst)

*S. R. Warnulkar*

Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY:</b> <b>M/s. Bhima Shankar sahakari sakhar Karkhana Ltd.</b> Dattatraynagar , Pargon Village- Awasari Bk. Tal.- Ambegaon , Dist. – Pune-412406		Report No	AL/TR/32-154/2018-19
		Report Date	26/02/2019
		Inward No	02-176
		Inward Date	19/02/2019
Sample Detail	Treated Effluent Sample	Analysis Start date	20/02/2019
Sample Collected By	AARL	Analysis End date	25/02/2019
Sample Volume	3000 ml	Sample Condition	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH	-----	7.74	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	92.0	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	1172	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	16.7	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	3.00	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	119	600 Max.	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	226	1000 Max.	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	10 Max.	APHA-23 <sup>rd</sup> Edition 2017 5520 B

## REMARK, OPINION & INTERPRITATION-

- ❖ The above Treated Effluent Water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Ashwarya*  
Verified by  
(Analyst)

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## ANALYSIS REPORTS FOR AMBIENT AIR MONITORING

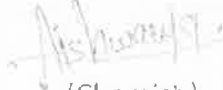
NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO	AL/TR/AM/47-558/18-19
		DATE	08/04/2019
		INWARD NO.	AL/6-040/01/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Main Gate	28/03/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	34.3	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	19.8	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	20.5	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	52.6	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	18.0	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.9	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.84	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

### REMARKS / OBSERVATIONS:

All above results are within National Ambient Air Quality Standards 2009.  
For Akanksha Analytical & Research Lab

  
(Lab In Charge)

  
(Chemist)



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved by "AGM/EPK" vide File No. 11036/15/98/Lab/2727



## ANALYSIS REPORTS FOR AMBIENT AIR MONITORING

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b>		TR NO	AL/TR/AM/47-559/18-19
Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		DATE	08/04/2019
		INWARD NO.	AL/6-040/02/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Pandurang Vasti (Ganesh Mandir)	28/03/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	34.9	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	6.20	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	7.60	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	25.2	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.6	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.3	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.45	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nicke! (Ni)	ng/m <sup>3</sup>	Absent	20

### REMARKS / OBSERVATIONS:

All above results are within National Ambient Air Quality Standards 2009.  
**For Akanksha Analytical & Research Lab**

*S. V. ...*  
(Lab In Charge)

*A. Ch...*  
(Chemist)



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727

## ANALYSIS REPORTS FOR AMBIENT AIR MONITORING

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b>		TR NO	AL/TR/AM/47-560/18-19
Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		DATE	08/04/2019
		INWARD NO.	AL/6-040/03/18-19
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Tanishka Hall (North-Side)	28/03/2019

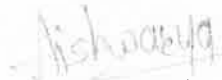
Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	35.0	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	5.60	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	6.30	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	29.6	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.3	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.8	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.45	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

### REMARKS / OBSERVATIONS:

All above results are within National Ambient Air Quality Standards 2009.

**For Akanksha Analytical & Research Lab**

  
(Lab In Charge)

  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

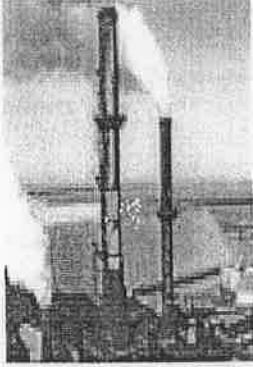
Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## STACK EMISSION MONITORING REPORT

Sample Report No.	AL/TR/AM/47-561/18-19		
Name of company	M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	28/03/2019	Time of Sampling: Daytime	
Report Date	08/04/2019	Inward No	AI/6-040/04/18-19

### PARTICULARS OF STACK

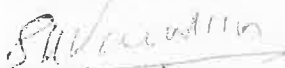
	Attached to	Boiler Stack (80 T/Hr.)
	Diameter	3.54 mtr
	Height	73 Mtr.
	Area	9.837 m <sup>2</sup>
	Temperature	129 <sup>o</sup> C
	Differential Pressure	1.20 mmWG
	Material of Construction	RCC
	Velocity of Gases	4.17 m/s
	Volume of gas	109484.27 NM <sup>3</sup> /Hr.


### POLLUTIONAL PARAMETERS

PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	135	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	1620	< 3886	Kg/day
Oxide of Nitrogen	315	--	mg/Nm <sup>3</sup>
Carbon Monoxide	3210	--	ppm

#### Remark & Observations :

All above results are within limits prescribed in the MPCB Consent For Akanksha Analytical & Research Lab

  
(Lab In Charge)

  
(Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

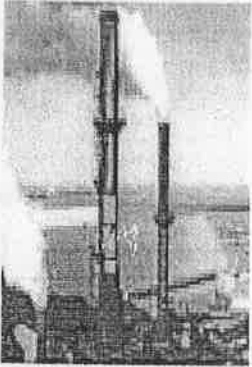
Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
 Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
 An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
 Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## STACK EMISSION MONITORING REPORT

Sample Report No.	AL/TR/AM/47-562/18-19		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	28/03/2019	Time of Sampling: Daytime	
Report Date	08/04/2019	Inward No	Al/6-040/05/18-19

### PARTICULARS OF STACK


	Attached to	Boiler Stack (37 T/Hr.)
	Diameter	4.00 mtr
	Height	60 Mtr.
	Area	12.56 m <sup>2</sup>
	Temperature	135 <sup>0</sup> C
	Differential Pressure	0.81 mmWG
	Material of Construction	RCC
	Velocity of Gases	3.45 m/s
	Volume of gas	113998.74NM <sup>3</sup> /Hr.

### POLLUTIONAL PARAMETERS

PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	112.0	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	42.00	< 3886	Kg/day
Oxide of Nitrogen	260	--	mg/Nm <sup>3</sup>
Carbon Monoxide	2917	--	ppm

### Remark & Observations :

All above results are within limits prescribed in the MPCB Consent **For Akanksha Analytical & Research Lab**

  
 (Lab In Charge)

  
 (Chemist)

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



TEST REPORT		Page 1 of 1	
<b>NAME OF COMPANY:</b> <b>M/s. Bhima Shankar sahakari sakhar karkhana Ltd.</b> Dattatraynagar, Pargaon Village-Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		<b>Report No</b>	AL/TR/32-443/2018-19
		<b>Report Date</b>	08/04/2019
		<b>Inward No</b>	03-237
		<b>Inward Date</b>	28/03/2019
<b>Sample Detail</b>	Untreated Effluent Sample	<b>Analysis Start date</b>	29/03/2019
<b>Sample Collected By</b>	AARL	<b>Analysis End date</b>	08/04/2019
<b>Sample Volume</b>	3000 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Method
1.	pH@ 27°C	-----	3.57	IS 3025 (Part 11) RA 2012 Electometric method
2.	Total Suspended Solids	mg/lit.	688	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	10151	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	16667	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	4100	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	360	IS 3025 (Part 40) RA 2009 Argentometric method
7.	Sulphate	mg/lit.	2647	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	APHA-23 <sup>rd</sup> Edition 2017 5520 B

### REMARK, OPINION & INTERPRITATION-

- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Aishwarya*  
Verified by  
(Analyst)

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab In-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E. P. Act 1986, vide GR No. S. O. 1680 (E) Sr. No. 63.  
An ISO 9001:2008, OHSAS 18001:2007 Certified Company  
Approved from "AGMARK" Vide file No. 11036/15/99/Lab./2727



## TEST REPORT

Page 1 of 1

<b>NAME OF COMPANY:</b> M/s. Bhima Shankar sahakari sakhar Karkhana Ltd. Dattatraynagar, Pargon Village- Awasari Bk. Tal.- Ambegaon, Dist. - Pune-412406		<b>Report No</b>	AL/TR/32-444/2018-19
		<b>Report Date</b>	08/04/2019
		<b>Inward No</b>	03-238
		<b>Inward Date</b>	28/03/2019
<b>Sample Detail</b>	Treated Effluent Sample	<b>Analysis Start date</b>	29/03/2019
<b>Sample Collected By</b>	AARL	<b>Analysis End date</b>	08/04/2019
<b>Sample Volume</b>	3000 ml	<b>Sample Condition</b>	Fit For Analysis

Sr. No.	Parameter	Unit	Result	Limits as per MPCB Norms	Method
1.	pH@ 27°C	-----	7.87	5.5 to 9.0	IS 3025 (Part 11) RA 2012 Electrometric method
2.	Total Suspended Solids	mg/lit.	6.00	100 Max.	IS 3025 (Part 17) RA 2012
3.	Total Dissolved Solids	mg/lit.	953	2100 Max.	IS 3025 (Part 16) RA 2012
4.	COD	mg/lit.	26.3	250 Max.	IS 3025 (Part 58) RA 2012 Open Reflux Method
5.	BOD @ 27°C For 3 Days	mg/lit.	5.00	100 Max.	IS 3025 (Part 44) RA 2014 Azide Modification Method
6.	Chlorides	mg/lit.	108	600 Max.	IS 3025 (Part 40 RA 2009 Argentometric method
7.	Sulphate	mg/lit.	71.3	1000 Max.	APHA-23 <sup>rd</sup> Edition 2017 4500-SO <sub>4</sub> -E
8.	Oil & Grease	mg/lit.	<1.0	10 Max.	APHA-23 <sup>rd</sup> Edition 2017 5520 B

### REMARK, OPINION & INTERPRITATION-

- ❖ The above Treated Effluent Water sample is within the prescribed limits.
- ❖ Sample will be preserve for seven days after analysis.
- ❖ Above analysis results pertain only to sample received conditions & not relevant to source or its process.
- ❖ The contents of this test report shall not be reproduced in part or in full in such a way that it will distort the findings.

*Ashwini*  
Verified by  
(Analyst)

*S.R. Warnulkar*  
Authorized by  
Mr. S.R. Warnulkar  
(Lab in-Charge)

...End of test report...

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORTS FOR AMBIENT AIR MONITORING

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO AL/TR/AM/48-027/19-20	
		DATE 25/04/2019	
		INWARD NO. AL/6-069/01/19-20	
SAMPLE :- Ambient Air	COLLECTED BY AARL	SAMPLE REF. Chinchgai Vasti	RECEIVED ON : 17/04/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	34.5	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	6.40	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	8.45	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	31.0	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	10.3	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.5	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.45	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

### REMARKS / OBSERVATIONS:

All above results are within National Ambient Air Quality Standards 2009.

**For Akanksha Analytical & Research Lab**

*S. H. Vannal*

**Lab In charge**

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORTS FOR AMBIENT AIR MONITORING

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b>		TR NO	AL/TR/AM/48-028/19-20
Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		DATE	25/04/2019
		INWARD NO.	AL/6-069/02/19-20
SAMPLE :-	COLLECTED BY	SAMPLE REF.	RECEIVED ON :
Ambient Air	AARL	Ganesh Nagar (South)	17/04/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	35.0	---
3.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	7.42	80
4.	Oxides of Nitrogen ( NO <sub>x</sub> )	µg/m <sup>3</sup>	6.60	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	31.9	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	11.8	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.5	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.45	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

### REMARKS / OBSERVATIONS:

All above results are within National Ambient Air Quality Standards 2009.

**For Akanksha Analytical & Research Lab**

*S.H. Varnalkar*

**Lab In charge**



# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## ANALYSIS REPORTS FOR AMBIENT AIR MONITORING

NAME OF COMPANY: <b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		TR NO AL/TR/AM/48-029/19-20	
		DATE 25/04/2019	
		INWARD NO. AL/6-069/03/19-20	
SAMPLE :- Ambient Air	COLLECTED BY AARL	SAMPLE REF. Kathapur Road (Esat)	RECEIVED ON : 17/04/2019

Sr. No.	Parameter	Unit	RESULT	Limits Max.
1.	Time duration	08 hrs.		
2.	Ambient Temperature	°C	36.2	---
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.6	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	9.45	80
5.	Particulate matter (PM) (less than 10 micron)	µg/m <sup>3</sup>	35.4	100
6.	Particulate matter (PM) (less than 2.5 micron)	µg/m <sup>3</sup>	12.3	60
7.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.0	180
8.	Lead (Pb)	µg/m <sup>3</sup>	Absent	1.0
9.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.60	04
10.	Ammonia as (NH <sub>3</sub> )	µg/m <sup>3</sup>	Absent	400
11.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Absent	05
12.	Benzo (a)Pyrene (BaP)	ng/m <sup>3</sup>	BDL	01
13.	Arsenic (As)	ng/m <sup>3</sup>	Absent	06
14.	Nickel (Ni)	ng/m <sup>3</sup>	Absent	20

### REMARKS / OBSERVATIONS:

All above results are within National Ambient Air Quality Standards 2009.

**For Akanksha Analytical & Research Lab**

*S. H. Varnal*

**Lab In charge**

# AKANKSHA ANALYTICAL & RESEARCH LAB


Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## STACK EMISSION MONITORING REPORT

Sample Report No.	AL/TR/AM/48-030/19-20		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	17/04/2019	Time of Sampling: Daytime	
Report Date	25/04/2019	Inward No	AI/6-069/04/19-20

### PARTICULARS OF STACK

	Attached to	Boiler Stack (80 T/Hr.)
	Diameter	3.54 mtr
	Height	73 Mtr.
	Area	9.837 m <sup>2</sup>
	Temperature	125 <sup>0</sup> C
	Differential Pressure	1.20 mmWG
	Material of Construction	RCC
	Velocity of Gases	4.14 m/s
	Volume of gas	110033.07 NM <sup>3</sup> /Hr.

### POLLUTIONAL PARAMETERS

PARAMETER	RESULTS	LIMITS	UNITS
Particulate Matter	131	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	1645	< 3886	Kg/day
Oxide of Nitrogen	320	--	mg/Nm <sup>3</sup>
Carbon Monoxide	3190	--	ppm

#### Remark & Observations :

All above results are within limits prescribed in the MPCB Consent

**For Akanksha Analytical & Research Lab**

*S. H. Varnali*


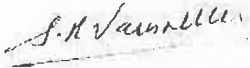
**Lab In charge**

# AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,  
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63  
An ISO 9001:2008, OHSAS18001:2007 Certified company  
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



## STACK EMISSION MONITORING REPORT

Sample Report No.	AL/TR/AM/48-031/19-20		
Name of company	<b>M/s. Bhima Sahankar Sahakari Sakhar Karkhana Ltd.</b> Dattatraynagar, Pargaon, Village-Awasari Bk., Tal. - Ambegaon, Dist. - Pune-412 406		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	17/04/2019	Time of Sampling: Daytime	
Report Date	25/04/2019	Inward No	AI/6-069/05/19-20
<b>PARTICULARS OF STACK</b>			
	Attached to	Boiler Stack (37 T/Hr.)	
	Diameter	4.00 mtr	
	Height	60 Mtr.	
	Area	12.56 m <sup>2</sup>	
	Temperature	140 <sup>0</sup> C	
	Differential Pressure	0.80 mmWG	
	Material of Construction	RCC	
	Velocity of Gases	3.45 m/s	
	Volume of gas	112604.97NM <sup>3</sup> /Hr.	
<b>POLLUTIONAL PARAMETERS</b>			
<b>PARAMETER</b>	<b>RESULTS</b>	<b>LIMITS</b>	<b>UNITS</b>
Particulate Matter	120.0	<150	mg/Nm <sup>3</sup>
Sulphur Dioxide	39.80	< 3886	Kg/day
Oxide of Nitrogen	265	--	mg/Nm <sup>3</sup>
Carbon Monoxide	2950	--	ppm
<b>Remark &amp; Observations :</b> All above results are within limits prescribed in the MPCB Consent <b>For Akanksha Analytical &amp; Research Lab</b>  <b>Lab In charge</b>			