

Environmental Consultancy & Laboratory

Lab. Gazetted by MoEF-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]

Lab. Accredited by NABL - ISO/IEC 17025:2005 [TC-5600, Valid Until 27.05.2019 in the field of Testing] OHSAS 18001: 2007

QCI-NABET Accredited EIA Consulting Organization STP/ETP/WTP Project Management Consultants

Laboratory: G V Brothers Building, Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601. Maharashtra, India

Tele: +91 22 2547 49 07/ +91 22 2547 62 17 Email: lab@ultratech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village –Shetphalgade,Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1010/12-2018

ISSUE DATE YOUR REF.

: 05/12/2018

REF. DATE

: 4500077501 : 12/04/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

: C-27/10-2018

AMBIENT AIR QUALITY MONITORING **Location Code**

Sample Registration Date : 16/10/2018

Date of Sampling 14/10/2018 to 15/10/2018 Time of Sampling

10:00 Hrs. to 10:00 Hrs.

Sample Location

Near Main Gate

Co-ordinates N18°27'04.68";E74°67'06.31"

Analysis Starting Date Analysis Completion Date:

16/10/2018 20/10/2018

Collected By **Height of Sampler** **ULTRA-TECH** 1.0 Meter

Sample Lab Code Ambient Air Temperature:

UT/ELS/C-173/10-2018 24.3 °C to 33.8°C

Sampling Duration: 24 Hours Relative Humidity:

43.8 % to 83.8 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	17	 μg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06): 2006	27	μg/m³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	82	μg/m ³
4.	Particulate Matter (PM _{2.5})	UT/LQMS/SOP/AA05	46	μg/m³
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10): 1999	1.1	mg/m³

†: Sampling Period 1 Hr.

Opinions / Interpretations:

National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference. (Turnover to find Annexure).

Sampling	Instrument Used	Make & Model	Calibration Status
Equipment Details	Respirable Dust Sampler	Make - ENVIROTECH; Model -APM 460; Sr. No. RDS-02	Valid up to - 23/01/2019
	Fine Dust Sampler	Make – NETEL; Model- NPM-FDS 2.5 A; Sr. No. 22114	Valid up to - 06/03/2019

Note:

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- Monitoring area coming under Residential areas and observed values are relevant to sample collected only.
- This test report may not be reproduced in part, without the permission of this laboratory.
- 4. Any correction invalidates this test report.
- Weather was Sunnyand Clear during sampling period.

END OF REPORT –

ULTRA-TECH.

Dr. Rahul Kolhapurkar CONSUL (Authorized Signatory)

INDIA PIN-400 60

Page **1 of 1**

H.O.: Unit No. 224,225,206, Jai Commercial Complex, Eastern Express Highway, Opp. Cadbury Factory, Khopat, Thane (W) 400 601. Tel: +91-22-2534 27 76 / 2538 01 98 / 2533 14 33 Fax: +91-22-2542 96 50 Email: sales@ultratech.in

ANNEXURE-I

NATIONAL AMBIENT AIR QUALITY STANDARDS, PART III-SECTION IV The Gazette of India with Effect from Wednesday, November 18, 2009/KARTIKA 27, 1931

		Time	National Ambient A	ir Quality Standards
Sr. No.	Pollutants	Weighted Average	Industrial, Residential, Rural and Other Area	Ecological Sensitive Area (Notified by Central Government)
		Annual*	50	20
01.	Sulphur Dioxide (SO ₂), µg/m ³	24 Hours**	80	80
	0.11 (1)	Annual*	40	30
02,	Oxides of Nitrogen (NO _x), µg/m ³	24 Hours**	80	80
00	D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Annual*	60	60
03	Particulate Matter (PM ₁₀), μg/m ³	24 Hours**	100	100
0.4	D	Annual*	40	40
U4.	04. Particulate Matter (PM _{2.5}), μg/m ³	24 Hours**	60	60
٥,5	C	08 Hours*	02	02
05.	Carbon Monoxide (CO), mg/m ³	01 Hours**	04	04

^{*} Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

NOTE: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further

^{** 24} hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.



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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village –Shetphalgade,Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1011/12-2018

ISSUE DATE YOUR REF.

: 05/12/2018

REF. DATE

: 4500077501 : 12/04/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

Sample Registration Date :

16/10/2018

Date of Sampling Time of Sampling

14/10/2018 to 15/10/2018 11:00 Hrs. to 11:00 Hrs.

Analysis Starting Date Analysis Completion Date ;

Sample Lab Code

16/10/2018 20/10/2018

UT/ELS/C-174/10-2018 Ambient Air Temperature: 24.6 °C to 33.7 °C

AMBIENT AIR QUALITY MONITORING : C-27/10-2018 **Location Code** 02

Sample Location:

Near Store Room

Co-ordinates: N18°27'05.85"; E74°67'24.97"

Collected By **ULTRA-TECH** Height of Sampler: 1.0 Meter Sampling Duratio: 24 Hours

Relative Humidit: 45.6 % to 81.2%

Sr. No.				
5r. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02): 2001	14	μg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06): 2006	24	μg/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	72	
4.	Particulate Matter (PM25)	UT/LQMS/SOP/AA05	37	μg/m³
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10): 1999	1.2	μg/m³ mg/m³

†: Sampling Period 1 Hr.

Opinions / Interpretations:

National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference. (Turnover to find Annexure)..

Sampling	Instrument Used	Make & Model	Calibration Status
Equipment Details	Respirable Dust Sampler	AT IN 400, 31. NO. 100D I B98	Valid up to - 23/01/2019
	Fine Dust Sampler	Make – NETEL; Model- NPM-FDS 2.5 A; Sr. No. FDS-02	Valid up to - 06/03/2019

Note:

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- 4. Any correction invalidates this test report.
- Weather was Sunny and Clear during sampling period.

END OF REPORT -

THANE (W) FOR UETRA-TECH, MOIA PIN-400 601

CONSUL (Authorized Signatory)

Page **1 of 1**

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ANNEXURE-I

NATIONAL AMBIENT AIR QUALITY STANDARDS, PART III-SECTION IV The Gazette of India with Effect from Wednesday, November 18, 2009/KARTIKA 27, 1931

		Time	National Ambient A	ir Quality Standards
Sr. No.	Pollutants	Weighted Average	Industrial, Residential, Rural and Other Area	Ecological Sensitive Area (Notified by Central Government)
		Annual*	50	20
01.	Sulphur Dioxide (SO ₂), μg/m ³	24 Hours**	80	80
		Annual*	40	30
02.	02. Oxides of Nitrogen (NO _x), μg/m ³	24 Hours**	80	80
		Annual*	60	60
03	Particulate Matter (PM ₁₀), μg/m ³	24 Hours**	100	100
		Annual*	40	40
04.	04. Particulate Matter (PM _{2.5}), μg/m ³	24 Hours**	60	60
		08 Hours*	02	02
05. Carbon Monoxide (CO), mg/m ³	01 Hours**	04	04	

^{*} Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

NOTE: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further

^{** 24} hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

OHSAS 18001: 2007



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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village –Shetphalgade, Taluka-Indapur

District-Pune 413030.

Date of Sampling

Time of Sampling

Sample Lab Code

REPORT NO.

: UT/ELS/REPORT/1012/12-2018

ISSUE DATE YOUR REF.

: 05/12/2018

REF. DATE

: 4500077501 : 12/04/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

Sample Registration Date : 16/10/2018

: C-27/10-2018

14/10/2018 to 15/10/2018 12:00 Hrs. to 12:00 Hrs.

Analysis Starting Date Analysis Completion Date:

16/10/2018 20/10/2018

UT/ELS/C-175/10-2018 Ambient Air Temperature: 24.3 °C to 33.9°C

AMBIENT AIR QUALITY MONITORING

Location Code

Sample Location

Near Distillary

Co-ordinates:N18°27'21.43"; E74°67'48.48"

Collected By **ULTRA-TECH** Height of Sampler

1.0 Meter

Sampling Duration: 24 Hours

Relative Humidity: 46.7 % to 81.8%

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	16	μg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	28	μg/m³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	70	μg/m³
4.	Particulate Matter (PM _{2.5})	UT/LQMS/SOP/AA05	33	μg/m³
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10): 1999	1.4	mg/m³

†: Sampling Period 1 Hr.

Opinions / Interpretations:

National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference. (Turnover to find Annexure)...

Sampling	Instrument Used	Make & Model	Calibration Status
Equipment Details	Respirable Dust Sampler	Make – POLLTECH; Model –PEM RDS 8NL; Sr. No. 1114	Valid up to - 23/01/2019
Details	Fine Dust Sampler	Make – NETEL; Model- NPM-FDS 2.5 A; Sr. No. FDS-03	Valid up to - 06/03/2019

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Weather was Sunny and Clear during sampling period.

- END OF REPORT -

ULTRA-TECH,

THANE (W) INDIA PIN-400 601

> Dr. Rahul Kolhapurkar (Authorized Signatory)

Page **1 of 1**

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		Time	National Ambient A	ir Quality Standards
Sr. No.	Pollutants	Weighted Average	Industrial, Residential, Rural and Other Area	Ecological Sensitive Area (Notified by Central Government)
	0.13 20 11 (00.3 / 0	Annual*	50	20
01.	Sulphur Dioxide (SO ₂), μg/m ³	24 Hours**	80	80
00	0.11 (37) (37)	Annual*	40	30
02.	Oxides of Nitrogen (NO _x), µg/m ³	24 Hours**	80	80
00	D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Annual*	60	60
03	Particulate Matter (PM ₁₀), μg/m ³	24 Hours**	100	100
0.4	D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Annual*	40	40
04.	Particulate Matter (PM _{2.5}), µg/m ³	24 Hours**	60	60
0.5	0 1 M 11 (00) / 3	08 Hours*	02	02
05.	Carbon Monoxide (CO), mg/m ³	01 Hours**	04	04

^{*} Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

NOTE: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further

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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade, Taluka-Indapur

District-Pune 413030.

Date of Monitoring

REPORT NO.

: UT/ELS/REPORT/1013/12-2018

ISO 9001: 2015

OHSAS 18001: 2007

ISSUE DATE

: 05/12/2018

YOUR REF. REF. DATE : 4500077501 : 12/04/2017

SAMPLE PARTICULARS

NOISE LEVEL QUALITY MONITORING

Sampling Plan Ref. No.

C-27/10-2018

Sample Lab Code

: UT/ELS/C-176/10-2018

: 14/10/2018

Survey Done By

: ULTRA-TECH

Sr.	Location	Noise Level Reading in dB(A)			
No.	Location	Time (Hrs)	Day dB(A)	Time (Hrs)	Night dB(A)
01.	Near Main Gate	12:30 to 12:35	68.2	22:10 to 22:15	50.2
02.	Near Store Room	12:45 to 12:50	64.9	22:20 to 22:25	48.6
03.	Near Distillery	13:05 to 13:10	70.2	22:35 to 22:40	47.2
04.	Near ETP	13:20 to 13:25	69.6	22:50 to 22:55	48.0

Opinions / Interpretations:

The Noise Pollution (Regulation And Control) Rules, 2000: Is Provided as Annexure II for Your Reference.

(Turnover to find Annexure).

Note:

1. Monitoring area coming under Residential Area.

2. Noise level monitored is an average for period as stated above, the permissible sound pressure level is to be determined with respect to the total time a workman is being exposed (continuously or a number of short term exposures per day) in Hrs.

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Sound Level Meter	Make - METRAVI; Model - SL-4015; Sr. no. 160200539	Valid up to - 06/03/2019

Note:

1. This test report refers only to the monitoring conducted.

2. This test report may not be reproduced in part, without the permission of this laboratory.

3. Any correction invalidates this test report.

- END OF REPORT -

THANE (W) FOR LITRA-TECH,

PIN-400 601 2 PARMA

CONSULTED Rahul Kolhapurkar

Page 1 of 1

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ANNEXURE-II

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)

• SCHEDULE

(See rule 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

A Codo	Catagorius S Arras / Torra	Limits in di	B(A) Leq
Area Code	Category of Area / Zone	Day Time	Night Time
A	Industrial Area	75	70
В	Commercial Area	65	55
С	Residential Area	55	45
D	Silence Zone	50	40

Note:

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
- 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq: It is energy mean of the noise level over a specified period.

• CONSTRUCTION ACTIVITIES

The maximum noise levels near the construction site should be limited to 75 dB(A) Leq(5 min.) in industrial areas and to 65 dB(A) Leq(5 min.) in other areas.

• THE PERMISSIBLE LEVELS FOR NOISE EXPOSURE FOR WORK ZONE

(The Model Rules Of The Factories Act, 1948)

Peak sound pressure level in dB	Permitted number of impulses or impact/day
140	100
135	315
130	1000
125	3160
120	10000

Notes:

- 1. No exposure in excess of 140 dB peak sound pressure level is permitted.
- 2. For any peak sound pressure level falling in between any figure and the next higher or lower figure as indicated in column 1, the permitted number of impulses or impacts per day is to be determined by extrapolation on a proportionate basis.

Total time exposure (continuous or a number of short term exposures per day) in Hrs	Sound Pressure Level in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/8	108
1/16	111
1/32 (2 minutes) or less	114

Notes:

- 1. No exposure in excess of 115 dB(A) is to be permitted.
- 2. For any period of exposure falling in between any figure and the next higher or lower figure as indicated in column 1,the permissible sound pressure level is to be determined by extrapolation on a proportionate basis.



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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade, Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1014/12-2018

ISSUE DATE YOUR REF.

: 05/12/2018

REF. DATE

STACK EMISSIONS QUALITY MONITORING

: 4500077501 : 12/04/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date

Date of Sampling Time of Sampling C-27/10-2018 16/10/2018

14/10/2018

Analysis Starting Date Analysis Completion Date

Sample Lab Code Sample Collected By 16/10/2018 20/10/2018

ULTRA-TECH

80 Liters/hr

UT/ELS/C-177/10-2018

23 Meter from Ground Level

15:30Hrs. to 16:30 Hrs.

STACK DETAILS

Stack ID S-03

Stack Attached To Stack Shape Round Stack MOC

D. G. Set (500 KVA)

M.S.

Stack Height

Stack Diameter 0.4998 Meter @ Sampling Point **Fuel Used** Diesel **Fuel Consumption**

FLUE GAS CHARACTERISTICS

Flue Gas Temperature Flue Gas Velocity

400.7 5.7

 ^{0}K m/sec **Volumetric Flow Rate Total Volume of Flue Gas**

: 2623 1.000 Nm³/hr Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	13	mg/Nm³
2.	Sulphur Dioxide (SO ₂)	lS 11255 (Part 02) : 1985	10	mg/Nm³

Opinions / Interpretations:

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model PEM - SMS 4; Sr. No. 2613	Valid up to - 13/02/2019

Note:

1. This test report refers only to the sample tested.

Nil.

2. This test report is valid at the time of and under the conditions specified herein.

3. This test report may not be reproduced in part, without the permission of this laboratory.

4. Any correction invalidates this test report.

- END OF REPORT -

For ULTRA-TECH.

PIN-400 601 Dr. Rahul Kolhapurkar (Authorized Signatory)

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OHSAS 18001: 2007



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ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade, Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1015/12-2018

65 Meter from Ground Level

ISSUE DATE YOUR REF.

: 05/12/2018 : 4500077501

REF. DATE

STACK EMISSIONS QUALITY MONITORING

: 12/04/2017

16/10/2018

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date Date of Sampling

C-27/10-2018

16/10/2018

15/10/2018 10:10Hrs. to 11:10 Hrs. **Analysis Starting Date**

Analysis Completion Date Sample Lab Code

20/10/2018 UT/ELS/C-178/10-2018

Sample Collected By **ULTRA-TECH**

STACK DETAILS

Stack ID

Stack MOC

Time of Sampling

S-01

Stack Attached To Stack Shape

Boiler (110 TPH)

Round

RCC

Stack Height

Stack Diameter **Fuel Used**

Fuel Consumption

3.9279 Meter @ Sampling Point **Bagasse**

1080MT/Day

FLUE GAS CHARACTERISTICS

Flue Gas Temperature Flue Gas Velocity

383 6.4

 ^{0}K m/sec

Volumetric Flow Rate **Total Volume of Flue Gas** 198305 1.000

THANE (W) INDIA PIN-400 601

COMEDU

Nm3/hr Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	15	mg/Nm³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	35	mg/Nm³

Opinions / Interpretations: Nil.

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model PEM - SMS 4; Sr. No. 2613	Valid up to - 13/02/2019

Note:

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END OF REPORT -

For ULTRA-TECH,

Dr Rahul Kolhapurkar (Authorized Signatory)

Page 1 of 1

H.O.: Unit No. 224,225,206, Jai Commercial Complex, Eastern Express Highway, Opp. Cadbury Factory, Khopat, Thane (W) 400 601. Tel: +91-22-2534 27 76 / 2538 01 98 / 2533 14 33 Fax: +91-22-2542 96 50 Email: sales@ultratech.in





Lab. Gazetted by MoEF-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]

ISO 9001: 2015 Lab. Accredited by NABL - ISO/IEC 17025:2005 [TC-5600, Valid Until 27.05.2019 in the field of Testing] OHSAS 18001: 2007

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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade, Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1016/12-2018

ISSUE DATE

: 05/12/2018

YOUR REF.

: 4500077501

REF. DATE

: 12/04/2017

16/10/2018

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date **Date of Sampling** Time of Sampling

C-27/10-2018 16/10/2018 15/10/2018

12:00Hrs. to 13:00 Hrs.

STACK EMISSIONS QUALITY MONITORING

Analysis Starting Date Analysis Completion Date

20/10/2018 Sample Lab Code

Sample Collected By

UT/ELS/C-179/10-2018 **ULTRA-TECH**

49 Meter from Ground Level

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

S-02

RCC

Boiler (40 TPH)

Round

Stack Height

Stack Diameter **Fuel Used**

1.8 Meter @ Sampling Point **Bagasse**

Fuel Consumption 62.4 Kg/Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature Flue Gas Velocity

382 4.9

 ^{0}K m/sec Volumetric Flow Rate **Total Volume of Flue Gas** 31976 1.000

MIDIA

Nm³/hr Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	14	mg/Nm³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02): 1985	29	mg/Nm³

Opinions / Interpretations: Nil.

0 11 7			
Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model PEM - SMS 4; Sr. No. 2613	Valid up to - 13/02/2019
			,p co 20,02,201,

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FOR ULTRA-TECH.

Dr. Rahul Kolhapurkar (Authorized Signatory)

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OHSAS 18001: 2007



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Tele: +91 22 2547 49 07/ +91 22 2547 62 17 Email: lab@ultratech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village - Shetphalgade, Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1017/12-2018

ISSUE DATE YOUR REF. : 05/12/2018 : 4500077501

REF. DATE

: 12/04/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No. Sample Registration Date

: C-28/10-2018 : 16/10/2018

:

2018 Sample Type 918 Sample Location

WATER SAMPLE ANALYSIS

mple Type : RO WaterOutlet

mple Location : Near Store Room

Date & Time of Sampling Analysis Starting Date Analysis Completion Date

Sample Collected By

: 15/10/2018 at 14:40Hrs

: 16/10/2018 : 31/10/2018

ULTRA-TECH

Sample Quantity &

2 L in Plastic Container and 100ml in

Packing Details

Sterile Corning Bottle.

Sample La	b Code : UT/ELS/C-		Killg Details	Sterne Corning	g bottle.
Sr. No.	Test Parameter	Test Method	Test Result	Unit	Standard Limits [IS 10500 : 2012]
PHYSICAL P	PARAMETERS:-			·	
1.	Turbidity*	IS 3025 (Part 10) 1984	BDL[DL=0.1]	NTU	1
CHEMICAL I	PARAMETERS:-		·- ·- ·- ·		
2.	рН	IS 3025 (Part 11) 1983	7.2		6.5 - 8.5
3.	Electrical Conductivity*	IS 3025 (Part 14) 1984	154	μS/cm	
4.	Total Dissolved Solids	IS 3025 (Part 16) 1984	100	mg/L	500
5.	Total Hardness as CaCO₃	IS 3025 (Part 21) 2009	49	mg/L	200
6.	Total Alkalinity as CaCO ₃	IS 3025 (Part 23) 1986	44	mg/L	200
7.	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23) 1986	BDL[DL=1]	mg/L	
8	Sulphate as SO ₄ ²	APHA 4500- SO ₄ 2-E	16	mg/L	200
9.	Phosphate as PO ₄ 3-*	APHA 4500 P E	BDL[DL=0.03]	mg/L	
10	Chlorides as CI-	IS 3025 (Part 32) 1988	22	mg/L	250
11,	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34) 1988	BDL [DL=0.1]	mg/L	0.5
12	Nitrates as NO ₃ -	IS 3025 (Part 34) 1988	2.08	mg/L	45
13.	Calcium Hardness as CaCO ₃	IS 3025 (Part 40) 1991	29	mg/L	
14	Calcium as Ca	IS 3025 (Part 40) 1991	12	mg/L	75
15	Potassium as K*	IS 3025 (Part 45) 1993	1.3	mg/L	
16.	Sodium as Na*	IS 3025 (Part 45) 1993	15	mg/L	
17	Magnesium as Mg	IS 3025 (Part 46) 1994	5	mg/L	30
18.	Lead as Pb	IS 3025 (Part 47) 1994	BDL [DL=0.01]	mg/L	0.01
19.	Iron as Fe	IS 3025 (Part 53) 2003	BDL [DL=0.06]	mg/L	0.3
20.	Fluoride as F-	APHA 4500-F- D	BDL[DL=0.2]	mg/L	1.0
	OGICAL PARAMETERS:				
21.	Total Coliform*	IS 1622 : 1981	BDL[DL=2]	MPN/100 ml	0
22.	F.Coli*	IS 1622 : 1981	BDL[DL=2]	MPN/100 ml	0
23.	E.Coli*	IS 1622: 1981	Absent	-	Absent
L - Detecti	on Limit			BDL - Be	low Detection Limit

Opinions / Interpretations: The given sample confirms with standard specifications as per IS 10500:2012 for above analyzed parameters.

Note

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3. Any correction invalidates this test report.

4.*Parameters are not covered under NABL Scope.

- END OF REPORT -

THANE (W) FOR LATRA-TECH

INDIA PIN-400 601

> Dr. Rahm Kolhapurkar (Authorized Signatory)

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OHSAS 18001: 2007



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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade, Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1018/12-2018

ISSUE DATE

: 05/12/2018

YOUR REF.

: 4500077501

REF. DATE

: 12/04/2017

SAMPLE PARTICULARS

WASTE WATER SAMPLE ANALYSIS

UntreatedEffluent

Sampling Plan Reference No. Date & Time of Sampling

C-28/10-2018

Sample Type 15/10/2018 at 15:00Hrs Sample Location

ETP Inlet

Analysis Starting Date Analysis Completion Date

16/10/2018

Sample Collected By

Sample Lab Code

23/10/2018

UT/ELS/C-181/10-2018

ULTRA-TECH

Sample Quantity

1L In Plastic Container for all

& Packing Details

parameters

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	рН	IS 3025 (Part 11): 1983	6.8	
2.	Total Dissolved Solids	IS 3025 (Part 16): 1984	820	mg/L
3.	Total Suspended Solids	IS 3025 (Part 17) : 1984	108	mg/L
4.	Sulphate as SO ₄ ² -	APHA 22 nd Ed. 4500- SO ₄ ² - E	240	mg/L
5.	Chlorides as Cl-	IS 3025 (Part 32): 1988	188	mg/L
6.	Oil & Grease	IS: 3025 (Part 39): 1991	16	mg/L
7.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 44): 1993	285	mg/L
8.	Chemical Oxygen Demand	IS 3025 (Part 58) : 2006	984	mg/L

Opinions / Interpretations:

NIL

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END OF REPORT -

ULTRA-TECH

INDIA PIN-400 601 &

Dr. Rahul Kolhapurkar CONCULTAN (Authorized Signatory)

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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade,Taluka-Indapur

District-Pune 413030.

REPORT NO.

: UT/ELS/REPORT/1019/12-2018

ISSUE DATE YOUR REF.

: 05/12/2018 : 4500077501

REF. DATE

: 12/04/2017

SAMPLE PARTICULARS

WASTE WATER SAMPLE ANALYSIS

Sampling Plan Reference No. Date & Time of Sampling

C-28/10-2018 :

Sample Type Sample Location

Treated Effluent ETP Outlet

Analysis Starting Date

15/10/2018 at 14:55Hrs 16/10/2018

Analysis Completion Date Sample Collected By

Sample Lab Code

23/10/2018

ULTRA-TECH

UT/ELS/C-182/10-2018

Sample Quantity

1L In Plastic Container for all

& Packing Details

parameters

Sr. No.	Test Parameter	Test Method	Test Result	Unit
9.	рН	IS 3025 (Part 11): 1983	7.4	-
10.	Total Dissolved Solids	IS 3025 (Part 16): 1984	420	mg/L
11.	Total Suspended Solids	IS 3025 (Part 17): 1984	10	mg/L
12.	Sulphate as SO ₄ ² ·	APHA 22 nd Ed. 4500- SO ₄ ² - E	92	mg/L
13.	Chlorides as Cl-	IS 3025 (Part 32) : 1988	69	mg/L
14.	Oil & Grease	IS: 3025 (Part 39) : 1991	BDL [DL=10]	mg/L
15.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 44): 1993	7.2	mg/L
16.	Chemical Oxygen Demand	IS 3025 (Part 58): 2006	24	mg/L

Opinions / Interpretations:

NIL

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END OF REPORT -

ULTRA-TECH

THANE (W) INDIA

PIN-400 601

CONSULTANC Dr Rahul Kolhapurkar
(Authorized Signatory)

Page 1 of 1

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TEST REPORT

ISSUED TO: M/s. BARAMATI AGRO LTD SUGAR DIVISION

Village -Shetphalgade, Taluka-Indapur

District-Pune 413030.

REPORT NO.

UT/ELS/REPORT/1020/12-2018

ISSUE DATE

05/12/2018

YOUR REF REF. DATE

SOIL QUALITY MONITORING

4500077501 12/04/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date

:

: C-28/10-2018

: 16/10/2018

: 15/10/2018at 15:15 Hrs.

Date & Time of Sampling **Analysis Starting Date**

: 16/10/2018

Analysis Completion Date Sample Collected By

: 03/11/2018

: ULTRA-TECH

Sample Type

Surface Soil (at 15cm depth)

Near Main Gate

Sample Quantity & Packing Details

Sample Location

1kg In Plastic Bag Contained in Zip

Lock Bag

Sample Lab Code : UT/ELS/C-183/10-2018

Sr. No.	Test Parameter	Test Methods	Test Result	Unit
1.	Colour*	-	Brown	-
2.	Moisture Content	IS:2720 (Part 2) : 1973	7.8	%
3.	Bulk Density	UT/LQMS/SOP/S03	1144	kg/m³
4.	Organic Matter	IS:2720 (Part 22) : 1972	1.1	%
5,	Total Organic Carbon	IS:2720 (Part 22) : 1972	0.6	%
6.	рН	IS:2720 (Part 26) : 1987	7.2	-
7.	Conductivity(1:2soil:Water Extract)	IS:14767- 2000	0.908	mS/cm
8.	Salinity (1:2 soil: Water Extract)*	Calculated in terms of Total Dissolved Solids	563	mg/L
9.	Sodium as Na (Water Extractable)*	UT/LQMS/SOP/S19	246	mg/kg
10.	Magnesium as Mg (Water Extractable)*	UT/LQMS/SOP/S22	72	mg/kg
11.	Chlorides as Cl ⁻ (Water Extractable)*	UT/LQMS/SOP/S23	87	mg/kg
12.	Sulphate as SO ₄ ² -(Water Extractable)*	UT/LQMS/SOP/S24	169	mg/kg
13.	Sodium Adsorption Ratio*	UT/LQMS/SOP/S26	1.2	(meq/kg) ^{1/2}
14.	Cation Exchange Capacity	USEPA 846 9080	28.6	meq/100g
15.	Water Holding Capacity	ASTM- T7367-07	58.3	%
16.	Available Boron as B (Available)	UT/LQMS/SOP/S27	0.6	mg/kg
17.	Phosphorous as P ₂ O ₅ (Available)	UT/LQMS/SOP/S28	81	kg/ha
18.	Potassium as K ₂ O (Available)	UT/LQMS/SOP/S29	378	kg/ha
19.	Nitrogen as N (Available)	UT/LQMS/SOP/S30	260	Kg/ha
20.	Iron as Fe	USEPA SW846 7380	53168	mg/kg
21.	Zinc as Zn	USEPA SW846 7950	78	mg/kg

Opinions / Interpretations:

NIL

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For WLTRA-TECH THANE (W)

INDIA PIN-400 60

Dr. Rafful Kolhapurkar (Authorized Signatory)

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