

TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED
 Post- Sonai, Taluka-Newase
 District-Ahmednagar 414105

REPORT NO. : UT/ELS/REPORT/C 001/03-2021
 ISSUE DATE : 15/03/2021
 YOUR REF. : MFG 1055/2017
 REF. DATE : 21/06/2017

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.: C-01/03-2021
 Location Code : 01
 Sample Registration Date : 04/03/2021
 Sample Location : Near Main Gate
 Date of Sampling : 01/03/2021 to 02/03/2021
 Co-ordinates N19°22'46.43"; E74°50'15.75"
 Time of Sampling : 09:30 Hrs. to 09:30 Hrs.
 Analysis Starting Date : 04/03/2021
 Collected By : ULTRA-TECH
 Analysis Completion Date : 06/03/2021
 Height of Sampler : 1.0 Meter
 Sample Lab Code : UT/ELS/C 001/03 2021
 Sampling Duration : 24 Hours
 Ambient Air Temperature : 25.5 °C to 31.8 °C
 Relative Humidity : 52.0 % to 78.0 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	16	µg/m ³
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 10-2.1	75	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	28	µg/m ³
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10); 1999	1.5	mg/m ³

†: 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 Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - ENVIROTECH; Model - APM460BL; Sr. No. 853-DTD-2007	Valid up to - 05/10/2021
Fine Dust Sampler	Make - ENVIROTECH; Model - APM 550; Sr. No. 488-DTJ-2010	Valid up to - 05/10/2021	

Note:

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

- END OF REPORT -



For ULTRA-TECH,

(Authorized Signatory)

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

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

** 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.

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

TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED
 Post- Sonai, Taluka-Newase
 District-Ahmednagar 414105

REPORT NO. : UT/ELS/REPORT/C 002/03-2021
ISSUE DATE : 15/03/2021
YOUR REF. : MFG.1055/2017
REF. DATE : 21/06/2017

SAMPLE PARTICULARS :	AMBIENT AIR QUALITY MONITORING
Sampling Plan Ref. No. : C-01/03-2021	Location Code : 02
Sample Registration Date : 04/03/2021	Sample Location : Near Admin Office
Date of Sampling : 02/03/2021 to 03/03/2021	Co-ordinates: N19°22'47.60"; E74°50'12.71"
Time of Sampling : 10:00 Hrs. to 10:00 Hrs.	
Analysis Starting Date : 04/03/2021	Collected By : ULTRA-TECH
Analysis Completion Date : 06/03/2021	Height of Sampler : 1.0 Meter
Sample Lab Code : UT/ELS/C-002/03-2021	Sampling Duration : 24 Hours
Ambient Air Temperature : 26.1 °C to 32.3 °C	Relative Humidity : 52.0 % to 70.0 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	12	µg/m ³
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 10-2.1	79	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	22	µg/m ³
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10): 1999	1.2	mg/m ³

†: Sampling Period 1 Hr.

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference.
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Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - ENVIROTECH; Model - APM460BL; Sr. No. 853-DTD-2007	Valid up to - 05/10/2021
Fine Dust Sampler	Make - ENVIROTECH; Model - APM 550; Sr. No. 488-DTJ-2010	Valid up to - 05/10/2021	

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The Gazette of India with Effect from Wednesday, November 18, 2009/KARTIKA 27, 1931

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

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TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED	REPORT NO. : UT/ELS/REPORT/C-003/03-2021
Post- Sonai, Taluka-Newase	ISSUE DATE : 15/03/2021
District-Ahmednagar 414105	YOUR REF. : MFG.1055/2017
	REF. DATE : 21/06/2017

SAMPLE PARTICULARS :	AMBIENT AIR QUALITY MONITORING
Sampling Plan Ref. No. : C-01/03-2021	Location Code : 03
Sample Registration Date : 04/03/2021	Sample Location : Near Godown
Date of Sampling : 03/03/2021 to 04/03/2021	Co-ordinates: N19°22'39.19"; E74°50'17.30"
Time of Sampling : 10:30 Hrs. to 10:30 Hrs.	
Analysis Starting Date : 04/03/2021	Collected By : ULTRA-TECH
Analysis Completion Date : 06/03/2021	Height of Sampler : 1.0 Meter
Sample Lab Code : UT/ELS/C-003/03-2021	Sampling Duration : 24 Hours
Ambient Air Temperature : 26.0 °C to 32.1 °C	Relative Humidity : 51.0 % to 72.0 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	13	µg/m ³
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 10-2.1	78	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-1, NAAQMS/36/2012-13	28	µg/m ³
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10): 1999	1.3	mg/m ³

†: 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 Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - ENVIROTECH; Model - APM460BL; Sr. No. 853-DTD-2007	Valid up to - 05/10/2021
Fine Dust Sampler	Make - ENVIROTECH; Model - APM 550; Sr. No. 488-DTJ-2010	Valid up to - 05/10/2021	

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- END OF REPORT -



For ULTRA-TECH,

[Signature]

(Authorized Signatory)

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

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

** 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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Environmental Consultancy & Laboratory

Lab. Gazetted by MoEF&CC-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]
 Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2021 in the field of Testing]
 QCI-NABET Accredited EIA Consulting Organization
 STP/ETP/WTP Project Management Consultants

ISO 9001 : 2015
 OHSAS 18001 : 2007

Lab : Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., 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. MULA SAHAKARI SAKHAR KARKHANA LIMITED **REPORT NO. :** UT/ELS/REPORT/C-004/03-2021
Post: Sonai, Taluka-Newase **ISSUE DATE :** 15/03/2021
District: Ahmednagar 414105 **YOUR REF. :** MFG.1055/2017
REF. DATE : 21/06/2017

SAMPLE PARTICULARS : **NOISE LEVEL QUALITY MONITORING**
Sampling Plan Ref. No. : C-01/03-2021 **Sample Lab Code :** UT/ELS/C-004/03-2021
Date of Monitoring : 01/03/2021 **Survey Done By :** ULTRA-TECH

Sr. No.	Location	Noise Level Reading in dB(A)			
		Time (Hrs)	Day dB(A)	Time (Hrs)	Night dB(A)
01.	Near Main Gate	11:00 to 11:05	73.7	22:00 to 22:05	63.8
02.	Near Admin Office	11:10 to 11:15	69.8	22:10 to 22:15	62.9
03.	Near Godown	11:20 to 11:25	70.4	22:20 to 22:25	61.8
04.	Near Switch Yard	11:30 to 11:35	74.5	22:30 to 22:35	64.2

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 Industrial 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 Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make - Lutron, Model - SL-4030; Sr. no. Q-623339	Valid up to - 03/01/2022

Note:
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- END OF REPORT -



For ULTRA-TECH,

(Authorized Signatory)

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

Area Code	Category of Area / Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	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.

Environmental Consultancy & Laboratory

Lab Gazetted by MoEF&CC-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]
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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. MULA SAHAKARI SAKHAR KARKHANA LIMITED Post- Sonai, Taluka-Newase District-Ahmednagar 414105	REPORT NO. : UT/ELS/REPORT/C-005/03-2021 ISSUE DATE : 15/03/2021 YOUR REF. : MFG.1055/2017 REF. DATE : 21/06/2017
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SAMPLE PARTICULARS : Sampling Plan Ref. No. : C-01/03-2021 Sample Registration Date : 04/03/2021 Date of Sampling : 01/03/2021 Time of Sampling : 10:30Hrs. to 11:30 Hrs.	STACK EMISSIONS QUALITY MONITORING Analysis Starting Date : 04/03/2021 Analysis Completion Date : 06/03/2021 Sample Lab Code : UT/ELS/C-005/03-2021 Sample Collected By : ULTRA-TECH
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STACK DETAILS			
Stack ID	: S-01	Stack Height	: 70 Meter from Ground Level
Stack Attached To	: Boiler (80 TPH)	Stack Diameter	: 2.95 Meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: Bagasse
Stack MOC	: RCC	Fuel Consumption	: 35MT/Day

FLUE GAS CHARACTERISTICS			
Flue Gas Temperature	: 402 °K	Volumetric Flow Rate	: 96361 Nm ³ /hr
Flue Gas Velocity	: 5.8 m/sec	Total Volume of Flue Gas	: 1.000 Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	16	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	12	mg/Nm ³

Opinions / Interpretations: NIL

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model PEM - SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

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- END OF REPORT -



For ULTRA-TECH,

(Authorized Signatory)

TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED	REPORT NO. : UT/ELS/REPORT/C-006/03-2021
Post- Sonai, Taluka-Newase	ISSUE DATE : 15/03/2021
District-Ahmednagar 414105	YOUR REF. : MFG.1055/2017
	REF. DATE : 21/06/2017

SAMPLE PARTICULARS		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: C-01/03-2021	Analysis Starting Date	: 04/03/2021
Sample Registration Date	: 04/03/2021	Analysis Completion Date	: 06/03/2021
Date of Sampling	: 01/03/2021	Sample Lab Code	: UT/ELS/C-006/03-2021
Time of Sampling	: 12:00Hrs. to 13:00 Hrs.	Sample Collected By	: ULTRA-TECH

STACK DETAILS

Stack ID	: S-02	Stack Height	: 75 Meter from Ground Level
Stack Attached To	: Boiler (85 TPH)	Stack Diameter	: 3.50Meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: Bagasse
Stack MOC	: RCC	Fuel Consumption	: 35.5MT/Day

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 410	°K	Volumetric Flow Rate	: 144322	Nm ³ /hr
Flue Gas Velocity	: 6.3	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	18	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	14	mg/Nm ³

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model PEM - SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

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TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED	REPORT NO.	: UT/ELS/REPORT/C-007/03-2021
Post- Sonai, Taluka-Newase	ISSUE DATE	: 15/03/2021
District-Ahmednagar 414105	YOUR REF.	: MFG.1055/2017
	REF. DATE	: 21/06/2017

SAMPLE PARTICULARS		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: C-01/03-2021	Analysis Starting Date	: 04/03/2021
Sample Registration Date	: 04/03/2021	Analysis Completion Date	: 06/03/2021
Date of Sampling	: 01/03/2021	Sample Lab Code	: UT/ELS/C-007/03-2021
Time of Sampling	: 14:00Hrs. to 15:00 Hrs.	Sample Collected By	: ULTRA-TECH

STACK DETAILS			
Stack ID	: S-03	Stack Height	: 7 Meter from Ground Level
Stack Attached To	: D. G. Set (500 KVA)	Stack Diameter	: 0.4953 Meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: High Speed Diesel
Stack MOC	: M.S.	Fuel Consumption	: 85 Liters/hr

FLUE GAS CHARACTERISTICS			
Flue Gas Temperature	: 419	°K	Volumetric Flow Rate : 3096 Nm ³ /hr
Flue Gas Velocity	: 6.9	m/sec	Total Volume of Flue Gas : 1.000 Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	16	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	10	mg/Nm ³

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model PEM - SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

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(Signature)

(Authorized Signatory)

Environmental Consultancy & Laboratory

Lab Gazetted by MoEF&CC-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]
 Lab Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2021 in the field of Testing]
 OCI-NABET Accredited EIA Consulting Organization
 STP/ETP/WTP Project Management Consultants

ISO 9001 : 2015
 OHSAS 18001 : 2007

Lab : Survey No. 93/A, Conformity Hissa No.2 G V Brothers Bldg., 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. MULA SAHAKARI SAKHAR KARKHANA LIMITED
 Post- Sonai, Taluka-Newase
 District-Ahmednagar 414105

REPORT NO. : UT/ELS/REPORT/C-008/03-2021
 ISSUE DATE : 15/03/2021
 YOUR REF. : MFG.1055/2017
 REF. DATE : 21/06/2017

SAMPLE PARTICULARS :

WATER SAMPLE ANALYSIS

Sampling Plan Ref. No. : C-01/03-2021
 Sample Registration Date : 04/03/2021
 Date & Time of Sampling : 03/03/2021 at 16:00 Hrs
 Analysis Starting Date : 04/03/2021
 Analysis Completion Date : 15/03/2021
 Sample Collected By : ULTRA-TECH
 Sample Lab Code : UT/ELS/C-008/03-2021

Sample Type : Ground Water
 Sample Location : Bore Well Near Grampanchayat Sonai Village
 Sample Quantity & Packing Details : 2 L. in Plastic Container for physico-chemical parameters and 100ml in Sterile Corning Bottle for bacteriological parameters.

Sr. No.	Test Parameter	Test Method	Test Result	Unit
PHYSICAL PARAMETERS:-				
1.	Turbidity	IS 3025 (Part 10) 1984	1.7	NTU
CHEMICAL PARAMETERS:-				
2.	pH	IS 3025 (Part 11) 1983	7.4	-
3.	Electrical Conductivity	IS 3025 (Part 14) 1984	526	µS/cm
4.	Total Dissolved Solids	IS 3025 (Part 16) 1984	342	mg/L
5.	Total Hardness as CaCO ₃	IS 3025 (Part 21) 2009	216	mg/L
6.	Total Alkalinity as CaCO ₃	IS 3025 (Part 23) 1986	210	mg/L
7.	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part 23) 1986	BDL [DL=1]	mg/L
8.	Sulphate as SO ₄ ²⁻	APHA 23 rd Ed. 4500-SO ₄ ²⁻ E	42	mg/L
9.	Phosphate as PO ₄ ³⁻ -P	APHA 23 rd Ed. 4500 P D	BDL [DL=0.01]	mg/L
10.	Chlorides as Cl	IS 3025 (Part 32) 1988	59	mg/L
11.	Ammonical Nitrogen as NH ₃ -N	APHA 23 rd Ed. 4500- NH ₃ -F	BDL [DL=0.01]	mg/L
12.	Nitrates as NO ₃ -N	IS 3025 (Part 34) 1988	0.6	mg/L
13.	Calcium Hardness as CaCO ₃	IS 3025 (Part 40) 1991	114	mg/L
14.	Calcium as Ca	IS 3025 (Part 40) 1991	46	mg/L
15.	Potassium as K	IS 3025 (Part 45) 1993	1.8	mg/L
16.	Sodium as Na	IS 3025 (Part 45) 1993	35	mg/L
17.	Magnesium as Mg	IS 3025 (Part 46) 1994	25	mg/L
18.	Lead as Pb	IS 3025 (Part 47) 1994	BDL [DL=0.6]	mg/L
19.	Iron as Fe	IS 3025 (Part 53) 2003	BDL [DL=0.06]	mg/L
20.	Fluoride as F	APHA 23 rd Ed. 4500-F* B,D	0.5	mg/L
BACTERIOLOGICAL PARAMETERS:				
21.	Total Coliform	IS 1622 : 1981	BDL [DL=2]	MPN/100 ml
22.	F.Coli	IS 1622 : 1981	BDL [DL=2]	MPN/100 ml
23.	E.Coli	IS 1622 : 1981	Absent	-

DL - Detection Limit

BDL - Below Detection Limit

Opinions / Interpretations: Nil

Note: 1. This test report refers only to the sample tested.
 2. This test report may not be reproduced in part, without the permission of this laboratory.
 3. Any correction invalidates this test report.

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Kolkata : +033-40089145 / +91-9674488198 - kolkata@ultratech.in

TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED
Post- Sonai, Taluka-Newase
District-Ahmednagar 414105

REPORT NO. : UT/ELS/REPORT/C-009/03-2021
ISSUE DATE : 15/03/2021
YOUR REF. : MFG.1055/2017
REF. DATE : 21/06/2017

SAMPLE PARTICULARS

Sampling Plan Reference No. : C-01/03-2021
Sample Registration Date : 04/03/2021
Date & Time of Sampling : 03/03/2021 at 16:30Hrs
Analysis Starting Date : 04/03/2021
Analysis Completion Date : 12/03/2021
Sample Collected By : ULTRA TECH
Sample Lab Code : UT/ELS/C-009/03-2021

WASTE WATER SAMPLE ANALYSIS

Sample Type : Treated Effluent
Sample Location : ETP Outlet
Sample Quantity & Packing Details : 1L In Plastic Container for all parameters

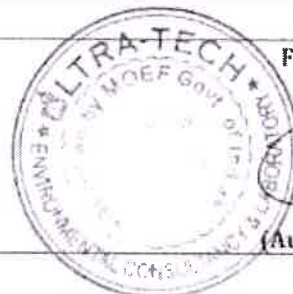
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	pH	IS 3025 (Part 11) : 1983	7.3	-
2.	Total Suspended Solids	IS 3025 (Part 17) : 1984	66	mg/L
3.	Oil & Grease	IS: 3025 (Part 39) : 1991	2	mg/L
4.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 44) : 1993	54	mg/L
5.	Chemical Oxygen Demand	IS 3025 (Part 58) : 2006	184	mg/L

BDL: Below Detection Limit DL: Detection Limit

Opinions / Interpretations: NIL

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For ULTRA-TECH

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Environmental Consultancy & Laboratory

Lab. Gazetted by MoEF&CC-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]
 Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2021 in the field of Testing]
 QCI-NABET Accredited EIA Consulting Organization
 STP/ETP/WTP Project Management Consultants

ISO 9001 2015
 OHSAS 18001 2007

Lab : Survey No. 93/A, Conformity Hissa No.2 G.V Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India
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TEST REPORT

ISSUED TO: M/s. MULA SAHAKARI SAKHAR KARKHANA LIMITED
 Post- Sonai, Taluka-Newase
 District-Ahmednagar 414105

REPORT NO. : UT/ELS/REPORT/C-010/03-2021
 ISSUE DATE : 15/03/2021
 YOUR REF. : MFG.1055/2017
 REF. DATE : 21/06/2017

SAMPLE PARTICULARS

Sampling Plan Ref. No. : C-01/03-2021
 Sample Registration Date : 04/03/2021
 Date & Time of Sampling : 03/03/2021 at 17:00 Hrs.
 Analysis Starting Date : 04/03/2021
 Analysis Completion Date : 15/03/2021
 Sample Collected By : ULTRA TECH
 Sample Lab Code : UT/ELS/C-010/03-2021

SOIL QUALITY MONITORING

Sample Type : Surface Soil (at 15cm depth)
 Sample Location : Near Godown
 Sample Quantity & Packing Details : 1kg In Plastic Bag Contained in Zip Lock Bag

Sr No	Test Parameter	Test Methods	Test Result	Unit
1.	Colour		Brown	-
2.	Moisture Content	IS:2720 (Part 2) : 1973	5.5	%
3.	Bulk Density	UT/LQMS/SOP/S03	1125	kg/m ³
4.	Organic Matter	IS:2720 (Part 22) : 1972	0.8	%
5.	Total Organic Carbon	IS:2720 (Part 22) : 1972	0.5	%
6.	pH	IS:2720 (Part 26) : 1987	7.7	-
7.	Conductivity(1:2soil:Water Extract)	IS:14767- 2000	0.542	mS/cm
8.	Sodium as Na (Water Extractable)	UT/LQMS/SOP/S19	59	mg/kg
9.	Magnesium as Mg (Water Extractable)	UT/LQMS/SOP/S22	96	mg/kg
10.	Chlorides as Cl ⁻ (Water Extractable)	UT/LQMS/SOP/S23	98	mg/kg
11.	Sulphate as SO ₄ ⁻² (Water Extractable)	UT/LQMS/SOP/S24	119	mg/kg
12.	Sodium Adsorption Ratio	UT/LQMS/SOP/S26	1.0	(meq/kg) ^{1/2}
13.	Cation Exchange Capacity	UT/LQMS/SOP/S18	24.9	meq/100g
14.	Water Holding Capacity	UT/LQMS/SOP/S12	56.9	%
15.	Available Boron as B (Available)	UT/LQMS/SOP/S27	0.9	mg/kg
16.	Phosphorous as P ₂ O ₅ (Available)	UT/LQMS/SOP/S28	100	kg/ha
17.	Potassium as K ₂ O (Available)	UT/LQMS/SOP/S29	165	kg/ha
18.	Nitrogen as N (Available)	UT/LQMS/SOP/S30	167	Kg/ha
19.	Iron as Fe	UT/LQMS/SOP/S35&S37	65847	mg/kg
20.	Zinc as Zn	UT/LQMS/SOP/S35&S37	92	mg/kg

Opinions / Interpretations: Nil

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ANNEXURE NO.2

List of CSR activities

Attached annexure I & II

CORPORATE SOCIAL RESPONSIBILITY

Plan for CORPORATE SOCIAL RESPONSIBILITY

Activities	Expenses till date	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	Total Rs in Lakh
Promotion of Higher educational Facilities to all boys & girls	0	0.1	0.1	0.05	0.05	0.05	0.35
Medical facilities to be extended In all villages.	0	0.05	0.2	0.05	0.02	0.02	0.34
Development of Roads in nearby Village.	0.5	0.03	0.03	0.03	0.03	0.03	0.65
Rainwater harvesting program KT Weir on Nala	1.5	0.25	0.25	0.25	0.25	0.25	2.75
Providing financial assistance to Self-Help Groups.	3	0.5	0.5	0.5	0.5	0.5	5.5
Drinking Water Supply to nearer Villages	0	0.2	0.2	0.2	0.2	0.2	1
Tree Plantation	0.5	0.3	0.3	0.3	0.3	0.3	2
Organize health camp in villages	0.5	0.2	0.2	0.2	0.2	0.2	1.5
Total	6.1	1.68	1.8	1.6	1.57	1.57	14.32