

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/25/0500	Report No. AA/01/25/0500	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Lohara Village	Date - Sampling	15/01/2025 to 16/01/2025
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	17/01/2025
Sampling Procedure	As per method reference	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.82 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 84/69%	Temperature (Max./Min.): 31/17°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

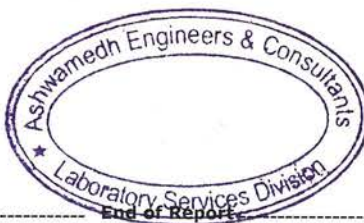
Sulphur Dioxide (SO ₂)	7.97	80	µg/m ³	IS 5182 (Part 2/Sec 1): 2023
Nitrogen Dioxide (NO ₂)	8.03	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	54	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	14	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	1.43	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/01/25/0500 bears two Test Reports-AA/01/25/0500 and AA/01/25/0500N


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



End of Report

Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/25/0500	Report No. AA/01/25/0500N	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Lohara Village	Date - Sampling	15/01/2025 to 16/01/2025
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	17/01/2025
Sampling Procedure	As per method reference	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.82 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 84/69%	Temperature (Max./Min.): 31/17°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

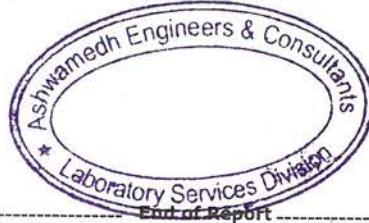
Hydrocarbons (HC)	1.82	Not specified	mg/m ³	IS 5182 (Part 17):1979
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TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon Monoxide.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/25/0501	Report No. AA/01/25/0501	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Khed Village	Date - Sampling	15/01/2025 to 16/01/2025
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	17/01/2025
Sampling Procedure	As per method reference	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.82 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 82/70%	Temperature (Max./Min.): 31/18°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	8.47	80	µg/m ³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO ₂)	7.29	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	60	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	16	60	µg/m ³	CPCB Guideline, Volume I.36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	1.50	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 1 hour TWA in case of Carbon Monoxide.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/25/0501	Report No. AA/01/25/0501N	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Khed Village	Date - Sampling	15/01/2025 to 16/01/2025
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	17/01/2025
Sampling Procedure	As per method reference	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.82 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 82/70%	Temperature (Max./Min.): 31/18°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

Hydrocarbons (HC)	1.69	Not specified	mg/m ³	IS 5182 (Part 17):1979
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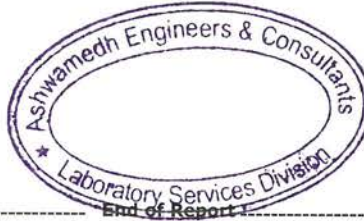
TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 1 hour TWA in case of Carbon Monoxide.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/25/0502	Report No. AA/01/25/0502	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	ETP Plant	Date - Sampling	15/01/2025 to 16/01/2025
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	17/01/2025
Sampling Procedure	As per method reference	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.83 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 82/70%	Temperature (Max./Min.): 31/21°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	8.22	80	µg/m ³	IS 5182 (Part 2/Sec 1): 2023
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	43	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	12	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	1.35	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

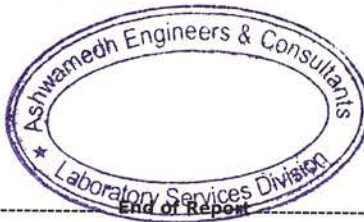
TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/01/25/0502 bears two Test Reports-AA/01/25/0502 and AA/01/25/0502N

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/25/0502	Report No. AA/01/25/0502N	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	ETP Plant	Date - Sampling	15/01/2025 to 16/01/2025
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	17/01/2025
Sampling Procedure	As per method reference	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.83 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 82/70%	Temperature (Max./Min.): 31/21°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

Hydrocarbons (HC)	1.46	Not specified	mg/m ³	IS 5182 (Part 17):1979
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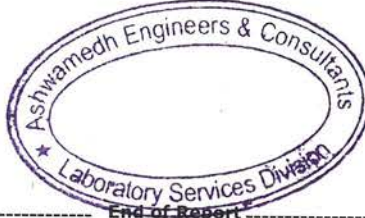
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/01/25/0502 bears two Test Reports-AA/01/25/0502 and AA/01/25/0502N

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/24/0647	Report No. AA/12/24/0647	Report Date	02/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Lohara Village	Date - Sampling	25/12/2024 to 26/12/2024
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO, HC: 1 x 1 no. bladder each	Date - Receipt of Sample	27/12/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	27/12/2024
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	01/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.64 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 82/72%	Temperature (Max./Min.): 31/18°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution


Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2/Sec 1): 2023
Nitrogen Dioxide (NO ₂)	10.9	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	48	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	14	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	1.56	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

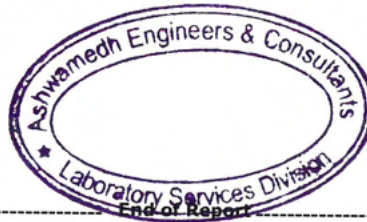
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/12/24/0647 bears two Test Reports-AA/12/24/0647 and AA/12/24/0647N


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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/24/0648	Report No. AA/12/24/0648	Report Date	02/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Khed Village	Date - Sampling	25/12/2024 to 26/12/2024
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO, HC: 1 x 1 no. bladder each	Date - Receipt of Sample	27/12/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	27/12/2024
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	01/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.63 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 82/69%	Temperature (Max./Min.): 30/17°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	44	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	11	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	1.36	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

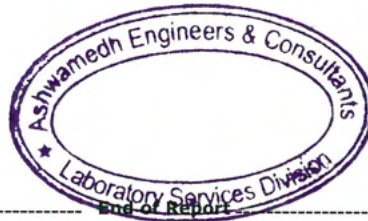
TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/12/24/0648 bears two Test Reports-AA/12/24/0648 and AA/12/24/0648N



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/12/24/0649	Report No. AA/12/24/0649	Report Date	02/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Sugar Plant	Date - Sampling	25/12/2024 to 26/12/2024
Sample Quantity / Packing	PM ₁₀ : 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each CO, HC: 1 x 1 no. bladder each	Date - Receipt of Sample	27/12/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	27/12/2024
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	01/01/2025

Meteorological Data / Environmental Conditions

Average Wind Velocity 2.62 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 81/70%	Temperature (Max./Min.): 31/17°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	BLQ (LOQ:4)	80	µg/m ³	IS 5182 (Part 2/Sec 1): 2023
Nitrogen Dioxide (NO ₂)	BLQ (LOQ:6.5)	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	46	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	11	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	1.26	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

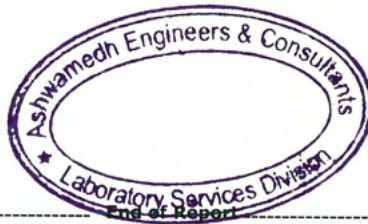
TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/12/24/0649 bears two Test Reports-AA/12/24/0649 and AA/12/24/0649N



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End of Report

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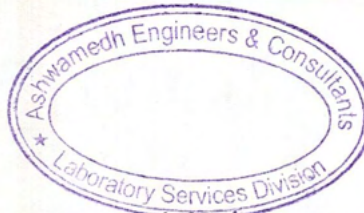
TEST REPORT

Sample ID : E/01/25/0282	Report No. E/01/25/0282	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date - Sampling	16/01/2025
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	17/01/2025
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	3.85	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	64	mg/L	IS 3025 (Part I7) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	2625	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	6600	mg/L	APHA,24th Ed.,5220.B,544: 2023
5	Total Dissolved Solids	650	mg/L	IS 3025 (Part I6) : 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed.,5520.B,572: 2023
7	Chloride (as Cl)	148	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO ₄)	151	mg/L	IS 3025 (Part 24)/Sec-I: 2022
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				



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TEST REPORT

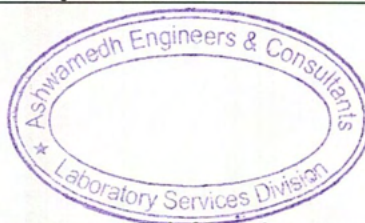
Sample ID : E/01/25/0283	Report No. E/01/25/0283	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date -Sampling	16/01/2025
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	17/01/2025
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	7.39	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	26	mg/L	IS 3025 (Part I7) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	20	mg/L	APHA,24th Ed.,5220.B.544: 2023
5	Total Dissolved Solids	582	mg/L	IS 3025 (Part 16): 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed.,5520.B.572: 2023
7	Chloride (as Cl)	114	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO ₄)	38.5	mg/L	IS 3025 (Part 24)/Sec-I: 2022

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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TEST REPORT

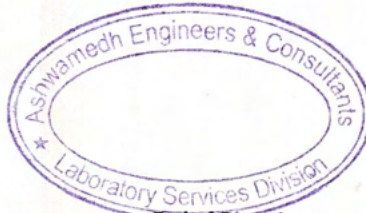
Sample ID : E/01/25/0284	Report No. E/01/25/0284	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Effluent
Sampling Location	IMFL Outlet Bottling Division	Date -Sampling	16/01/2025
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle 5 L x 2 no. plastic can	Date - Receipt of sample	17/01/2025
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44 & IS 6582:1971	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	8.22	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	8	mg/L	IS 3025 (Part I7) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	10	mg/L	APHA,24th Ed.,5220.B.544: 2023
5	Total Dissolved Solids	166	mg/L	IS 3025 (Part 16): 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed.,5520.B.572: 2023
7	Ammonical Nitrogen (as NH ₃ -N)	BLQ (LOQ:0.1)	mg/L	APHA,24th Ed.,4500- NH3, F.429: 2023
8	Bioassay Test	100 % Survival of fish after 96 hours in 100 % effluent	-	IS 6582 (Part I): 1971

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TEST REPORT

Sample ID : E/12/24/0384	Report No. E/12/24/0384	Report Date	01/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date -Sampling	26/12/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	27/12/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	27/12/2024
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	31/12/2024

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	12.7	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	78	mg/L	IS 3025 (Part 17) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	3800	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	9600	mg/L	APHA,24th Ed.,5220.B.544: 2023
5	Total Dissolved Solids	704	mg/L	IS 3025 (Part 16) : 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed.,5520.B.572: 2023
7	Chloride (as Cl)	204	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO ₄)	161	mg/L	IS 3025 (Part 24)/Sec-I: 2022
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				



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TEST REPORT

Sample ID : E/12/24/0385	Report No. E/12/24/0385	Report Date	01/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date -Sampling	26/12/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	27/12/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	27/12/2024
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	31/12/2024

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (at 25°C)	7.49	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	42	mg/L	IS 3025 (Part 17) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	75	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	220	mg/L	APHA,24th Ed.,5220.B.544: 2023
5	Total Dissolved Solids	762	mg/L	IS 3025 (Part 16) : 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed.,5520.B.572: 2023
7	Chloride (as Cl)	234	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO ₄)	170	mg/L	IS 3025 (Part 24)/Sec-I: 2022

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification


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TEST REPORT

Sample ID : S/01/25/0285	Report No. S/01/25/0285	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	15/01/2025
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	17/01/2025
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

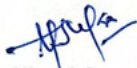
Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (1:5 suspension at 25°C)	8.55	-	FAO, Sec. III, 1, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.242	mmhos/cm	FAO, Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	3.45	% by Weight	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011
4	Organic Matter	BLQ (LOQ:1)	%	FAO, Sec. III, 3, Page no.73: 1976
5	Total Nitrogen (as N)	118	mg/kg	FAO, Sec III.4, Page No. 78: 1976
6	Total Potassium (as K)	689	mg/kg	USEPA/SW 846/7000B
7	Calcium (as Ca)	35268	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	200	mg/kg	USEPA/SW 846/7000B
9	Chloride (as Cl)	89	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO ₄)	114	mg/kg	USEPA/SW 846/9038

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

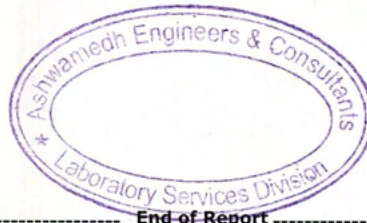
Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/25/0285 bears two Test Reports - S/01/25/0285 and S/01/25/0285N



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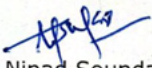


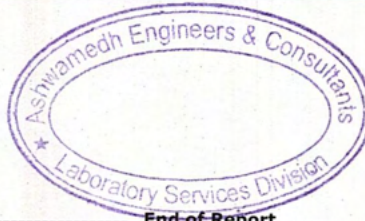
AEC/F/REP/1-A

TEST REPORT

Sample ID : S/01/25/0285	Report No. S/01/25/0285N	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	15/01/2025
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	17/01/2025
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Magnesium (as Mg)	3.99	mg/kg	AEC/C/SAP/S-10
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: All results are on air dry basis. FAO: Food & Agriculture Organization, United Nations. Sample ID S/01/25/0285 bears two Test Reports - S/01/25/0285 and S/01/25/0285N				


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TEST REPORT

Sample ID : S/01/25/0286	Report No. S/01/25/0286	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	15/01/2025
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	17/01/2025
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (1:5 suspension at 25°C)	8.32	-	FAO, Sec. III, I, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.334	mmhos/cm	FAO, Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	6.76	% by Weight	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011
4	Organic Matter	BLQ (LOQ:1)	%	FAO, Sec. III, 3, Page no.73: 1976
5	Total Nitrogen (as N)	129	mg/kg	FAO, Sec III, 4, Page No. 78: 1976
6	Total Potassium (as K)	1229	mg/kg	USEPA/SW 846/7000B
7	Calcium (as Ca)	31553	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	156	mg/kg	USEPA/SW 846/7000B
9	Chloride (as Cl)	124	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO ₄)	112	mg/kg	USEPA/SW 846/9038

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/25/0286 bears two Test Reports - S/01/25/0286 and S/01/25/0286N



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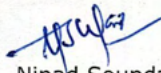


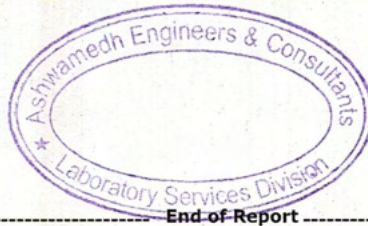
AEC/F/REP/1-A

TEST REPORT

Sample ID : S/01/25/0286	Report No. S/01/25/0286N	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	15/01/2025
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	17/01/2025
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	17/01/2025
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Magnesium (as Mg)	5.99	mg/kg	AEC/C/SAP/S-ID
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: All results are on air dry basis. FAO: Food & Agriculture Organization, United Nations. Sample ID S/01/25/0286 bears two Test Reports - S/01/25/0286 and S/01/25/0286N				


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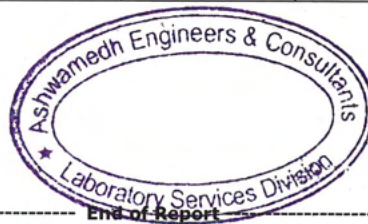


STACK EMISSION MONITORING REPORT

Sample ID : SA/12/24/0817	Report No. SA/12/24/0817	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	28/12/2024
		Date - Receipt of Sample	30/12/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	30/12/2024
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	03/01/2025
Stack Details			
~ Stack Identity	D G Set - 1010 KVA		
~ Stack attached to	D G 1010 KVA - 01		
~ Material of construction	MS		
~ Stack height above ground level	6.1 m		
~ Stack diameter	0.3 m		
~ Stack shape at top	Circle		
~ Type of Fuel	Diesel		
~ Fuel Consumption	40 L/h		
Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Flue Gas Temperature	85	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.1	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1462	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	16	mg/Nm ³	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO ₂)	5.52	mg/Nm ³	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO ₂)	0.19	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO ₂)	18.2	mg/Nm ³	IS 11255 (Part 7): 2017



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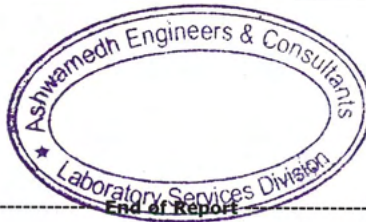
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STACK EMISSION MONITORING REPORT

Sample ID : SA/12/24/0818	Report No. SA/12/24/0818	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	28/12/2024
		Date - Receipt of Sample	30/12/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	30/12/2024
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	03/01/2025
Stack Details			
~ Stack Identity	D G Set 1010 KVA - 02		
~ Stack attached to	D G Set 1010 KVA - 02		
~ Material of construction	MS		
~ Stack height above ground level	6.1 m		
~ Stack diameter	0.3 m		
~ Stack shape at top	Circle		
~ Type of Fuel	Diesel		
~ Fuel Consumption	40 L/h		
Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Flue Gas Temperature	88	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1437	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	17	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	6.90	mg/Nm ³	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	0.24	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	17.2	mg/Nm ³	IS 11255 (Part 7) : 2017


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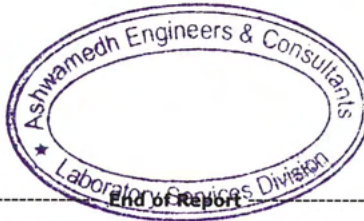
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STACK EMISSION MONITORING REPORT

Sample ID : SA/12/24/0819	Report No. SA/12/24/0819	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	28/12/2024
		Date - Receipt of Sample	30/12/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	30/12/2024
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	03/01/2025
Stack Details			
~ Stack Identity	Boiler - 135 TPH		
~ Stack attached to	Boiler		
~ Material of construction	MS		
~ Stack height above ground level	85 m		
~ Stack diameter	3 m		
~ Stack shape at top	Circle		
~ Type of Fuel	Bagasse		
~ Fuel Consumption	55 t/h		
Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Flue Gas Temperature	115	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.8	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	147174	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	14	mg/Nm ³	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:5)	mg/Nm ³	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:0.02)	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO ₂)	15.9	mg/Nm ³	IS 11255 (Part 7): 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification			


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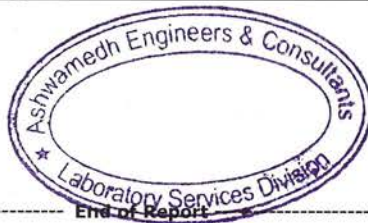
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STACK EMISSION MONITORING REPORT

Sample ID : SA/01/25/0503	Report No. SA/01/25/0503	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	15/01/2025
		Date - Receipt of Sample	17/01/2025
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025
Stack Details			
~ Stack Identity	D G Set -1010 KVA - 1		
~ Stack attached to	D G Set		
~ Material of construction	MS		
~ Stack height above ground level	6.1 m		
~ Stack diameter	0.3 m		
~ Stack shape at top	Round		
~ Type of Fuel	Diesel		
~ Fuel Consumption	40 L/h		
Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Flue Gas Temperature	92	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.3	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1481	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	20	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:5)	mg/Nm ³	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:0.02)	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	14.9	mg/Nm ³	IS 11255 (Part 7) : 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification			


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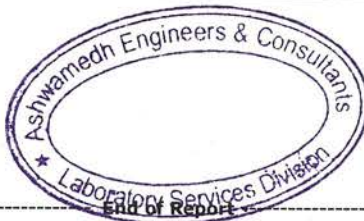
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STACK EMISSION MONITORING REPORT

Sample ID : SA/01/25/0504	Report No. SA/01/25/0504	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	15/01/2025
		Date - Receipt of Sample	17/01/2025
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025
Stack Details			
~ Stack Identity	D G Set - 1010 KVA - 2		
~ Stack attached to	D G Set		
~ Material of construction	MS		
~ Stack height above ground level	6.1 m		
~ Stack diameter	0.3 m		
~ Stack shape at top	Round		
~ Type of Fuel	Diesel		
~ Fuel Consumption	45 L/h		
Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Flue Gas Temperature	94	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.6	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1527	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	26	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:5)	mg/Nm ³	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:0.02)	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	16.1	mg/Nm ³	IS 11255 (Part 7) : 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification			


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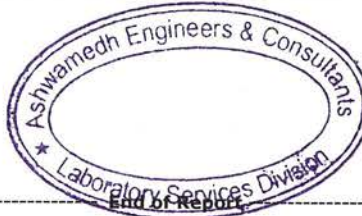
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STACK EMISSION MONITORING REPORT

Sample ID : SA/01/25/0505	Report No. SA/01/25/0505	Report Date	23/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle	Date - Sampling	15/01/2025
		Date - Receipt of Sample	17/01/2025
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	17/01/2025
Order Reference	J.O. No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	22/01/2025
Stack Details			
~ Stack Identity	Boiler - 135 TPH		
~ Stack attached to	Boiler		
~ Material of construction	MS		
~ Stack height above ground level	85 m		
~ Stack diameter	3 m		
~ Stack shape at top	Round		
~ Type of Fuel	Bagasse		
~ Fuel Consumption	55 t/h		
Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Flue Gas Temperature	100	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.6	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	149787	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	29	mg/Nm ³	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:5)	mg/Nm ³	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO ₂)	BLQ (LOQ:0.02)	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO ₂)	13.8	mg/Nm ³	IS 11255 (Part 7): 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification			


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TEST REPORT

Sample ID : S/12/24/0387	Report No. S/12/24/0387	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	25/12/2024
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	27/12/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/12/2024
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	04/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (1:5 suspension at 25°C)	7.89	-	FAO, Sec. III, I, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.595	mmhos/cm	FAO, Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	8.03	% by Weight	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011
4	Organic Matter	2.83	%	FAO, Sec. III, 3, Page no.73: 1976
5	Total Nitrogen (as N)	106	mg/kg	FAO, Sec III.4, Page No. 78: 1976
6	Total Potassium (as K)	2573	mg/kg	USEPA/SW 846/7000B
7	Calcium (as Ca)	37937	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	162	mg/kg	USEPA/SW 846/7000B
9	Chloride (as Cl)	212	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO ₄)	108	mg/kg	USEPA/SW 846/9038

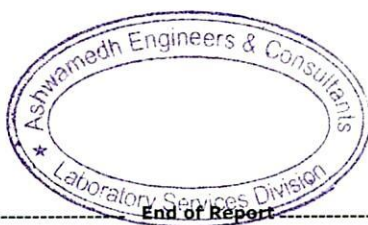
Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/12/24/0387 bears two Test Reports - S/12/24/0387 and S/12/24/0387N



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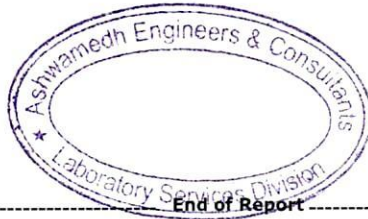


TEST REPORT

Sample ID : S/12/24/0387	Report No. S/12/24/0387N	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	25/12/2024
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	27/12/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/12/2024
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	04/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Magnesium (as Mg)	4.99	mg/kg	AEC/C/SAP/S-10
Note: All results are on air dry basis. FAO: Food & Agriculture Organization, United Nations. Sample ID S/12/24/0387 bears two Test Reports - S/12/24/0387 and S/12/24/0387N				


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AEC/F/REP/1-A

TEST REPORT

Sample ID : S/12/24/0388	Report No. S/12/24/0388	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	25/12/2024
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	27/12/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/12/2024
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	04/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (1:5 suspension at 25°C)	8.13	-	FAO, Sec. III, I, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.302	mmhos/cm	FAO, Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	6.71	% by Weight	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011
4	Organic Matter	1.47	%	FAO, Sec. III, 3, Page no.73: 1976
5	Total Nitrogen (as N)	103	mg/kg	FAO, Sec III.4, Page No. 78: 1976
6	Total Potassium (as K)	849	mg/kg	USEPA/SW 846/7000B
7	Calcium (as Ca)	24275	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	219	mg/kg	USEPA/SW 846/7000B
9	Chloride (as Cl)	159	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO ₄)	82	mg/kg	USEPA/SW 846/9038

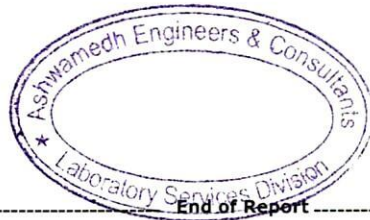
Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/12/24/0388 bears two Test Reports - S/12/24/0388 and S/12/24/0388N



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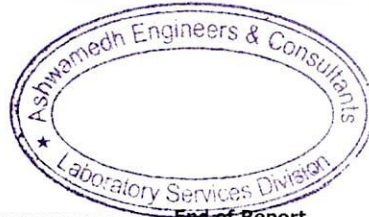
TEST REPORT

Sample ID : S/12/24/0388	Report No. S/12/24/0388N	Report Date	04/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	25/12/2024
Sample Quantity / Packing	1 kg x 1 no. paper bag	Date - Receipt of Sample	27/12/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/12/2024
Order Reference	JO No. 24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	04/01/2025

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Magnesium (as Mg)	4	mg/kg	AEC/C/SAP/S-ID
Note: All results are on air dry basis. FAO: Food & Agriculture Organization, United Nations. Sample ID S/12/24/0388 bears two Test Reports - S/12/24/0388 and S/12/24/0388N				



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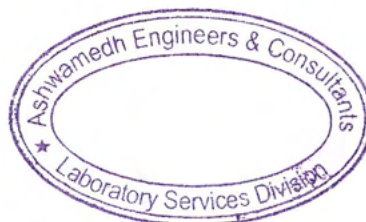
TEST REPORT

Sample ID : W/01/25/0397	Report No. W/01/25/0397	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell- Lohara Village	Date - Sampling	16/01/2025
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	17/01/2025
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B,1097 & ISO 19458:2006	Date - Start of Analysis	17/01/2025
Order Reference	JO No.24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Physical & Chemical Parameters					
1	Colour	1	Max. 5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	Agreeable	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	7.98	6.5 - 8.5	-	IS 3025 (Part II) : 2022
4	Turbidity	0.23	Max. 1	NTU	IS 3025 (Part 10) : 2023
5	Biochemical Oxygen Demand (3 days, 27°C)	2	Not specified	mg/L	IS 3025 (Part 44): 1993
6	Chemical Oxygen Demand	6	Not specified	mg/L	APHA,24th Ed.,5220,8,544: 2023
7	Total Dissolved Solids	84	Max. 500	mg/L	IS 3025 (Part 16): 2023
8	Calcium (as Ca)	13.6	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
9	Chloride (as Cl)	BLQ (LOQ:5)	Max.250	mg/L	ISO-15923-1:2017
10	Fluoride (as F)	BLQ (LOQ:0.05)	Max.1.0	mg/L	ISO 15923:2:2017
11	Free Residual Chlorine	BLQ (LOQ:0.05)	Min.0.2	mg/L	APHA,24th Ed.,4500- Cl.6.357: 2023
12	Iron (as Fe)	0.323	Max. 1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
13	Magnesium (as Mg)	8.7	Max. 30	mg/L	IS 3025 (Part 46): 1994
14	Nitrate (as NO ₃)	2.6	Max. 45	mg/L	APHA,24th Ed.,4500- NO3.B, 434: 2023
15	Sulphate (as SO ₄)	2.7	Max.200	mg/L	ISO-15923-1:2017
16	Total Alkalinity (as CaCO ₃)	40.6	Max.200	mg/L	ISO-15923-2:2017
17	Total Hardness (as CaCO ₃)	70	Max. 200	mg/L	IS 3025 (Part 21) Method No.5: 1983
18	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	ISO 15923:2:2017
19	Silica (as SiO ₂)	0.24	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
Biological Testing; Group: Water					
Bacteriological Parameters					

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Quality Manager
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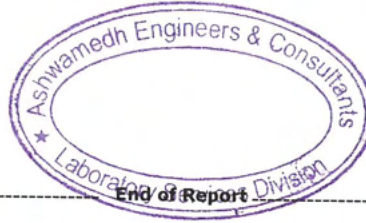
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Sample ID : W/01/25/0397	Report No. W/01/25/0397	Report Date	22/01/2025
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Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
20	Total Coliforms	Absent	Not specified	/100 ml	APHA, 24th Ed., 9221-D, 1140: 2023

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification

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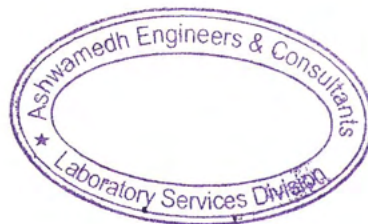
TEST REPORT

Sample ID : W/01/25/0398	Report No. W/01/25/0398	Report Date	22/01/2025
Name and address of Customer	Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell- Khed Village	Date - Sampling	16/01/2025
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Receipt of Sample	17/01/2025
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B,1097 & ISO 19458:2006	Date - Start of Analysis	17/01/2025
Order Reference	JO No.24-25/1CO00028 dated 05.12.2024	Date - Completion of Analysis	21/01/2025

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Physical & Chemical Parameters					
1	Colour	1	Max. 5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	Agreeable	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	8.34	6.5 - 8.5	-	IS 3025 (Part II) : 2022
4	Turbidity	0.23	Max. 1	NTU	IS 3025 (Part 10) : 2023
5	Biochemical Oxygen Demand (3 days, 27°C)	1	Not specified	mg/L	IS 3025 (Part 44): 1993
6	Chemical Oxygen Demand	6	Not specified	mg/L	APHA,24th Ed.,5220.8,544: 2023
7	Total Dissolved Solids	430	Max. 500	mg/L	IS 3025 (Part 16): 2023
8	Calcium (as Ca)	44.8	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
9	Chloride (as Cl)	57	Max.250	mg/L	ISO-15923-1:2017
10	Fluoride (as F)	0.61	Max.1.0	mg/L	ISO 15923:2:2017
11	Free Residual Chlorine	BLQ (LOQ:0.05)	Min.0.2	mg/L	APHA,24th Ed.,4500- Cl.G.357: 2023
12	Iron (as Fe)	0.195	Max. 1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
13	Magnesium (as Mg)	28.6	Max. 30	mg/L	IS 3025 (Part 46): 1994
14	Nitrate (as NO ₃)	7.25	Max. 45	mg/L	APHA,24th Ed.,4500- NO3.B, 434: 2023
15	Sulphate (as SO ₄)	57	Max.200	mg/L	ISO-15923-1:2017
16	Total Alkalinity (as CaCO ₃)	173	Max.200	mg/L	ISO-15923-2:2017
17	Total Hardness (as CaCO ₃)	230	Max. 200	mg/L	IS 3025 (Part 21) Method No.5: 1983
18	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	ISO-15923-1:2017
19	Silica (as SiO ₂)	1.5	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
Biological Testing; Group: Water					
Bacteriological Parameters					

Selan

Ulka Belan
Quality Manager
Reviewed & Authorised by



Saanvi Dalal

Saanvi Dalal
Section-in-Charge (Chemical)
Reviewed & Authorised by

ULR-TC550925000001599F

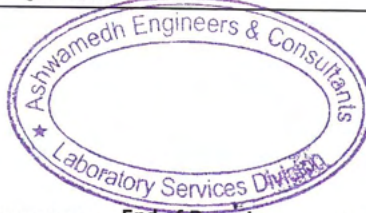
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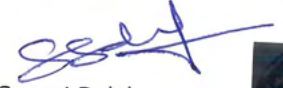
Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
20	Total Coliforms	Present	Not specified	/100 ml	APHA, 24th Ed., 9221-D, 1140: 2023

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification

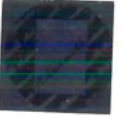


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Section In-charge (Chemical)
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End of Report

Note:

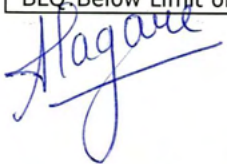
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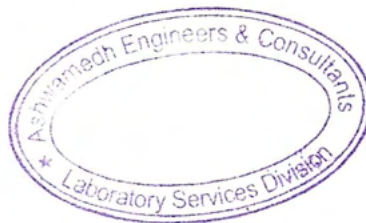
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TEST REPORT

Sample ID : W/01/25/0396		Report No. W/01/25/0396		Report Date		23/01/2025	
Name and address of Customer		Lokmangal Mauli Industries Ltd. (Sugar Division) A/P. - Lohara (Khurd), Tal. Lohara, Dist. Dharashiv - 413608, Maharashtra					
Sampling done by		Laboratory		Sample Description / Type		Surface Water	
Sampling Location		Makani Dam		Date - Sampling		16/01/2025	
Sample Quantity / Packing		2 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle		Date - Receipt of Sample		17/01/2025	
Sampling Procedure		IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B,1097 & ISO 19458:2006		Date - Start of Analysis		17/01/2025	
Order Reference		JO No.24-25/1CO00028 dated 05.12.2024		Date - Completion of Analysis		22/01/2025	
Sr.No.	Parameter	Result	Unit	Method			
Chemical Testing; Group: Water, Residues in Water							
Physical & Chemical Parameters							
1	Colour	1	Hazen units	IS 3025 (Part 4), Method No.4: 2021			
2	Odour	Agreeable	-	IS 3025 (Part 5):2018			
3	pH value (at 25°C)	8.48	-	IS 3025 (Part II): 2022			
4	Turbidity	0.29	NTU	IS 3025 (Part 10) : 2023			
5	Total Dissolved Solids	224	mg/L	IS 3025 (Part 16): 2023			
6	Calcium (as Ca)	30.4	mg/L	ISO-15923-2:2017			
7	Chloride (as Cl)	28	mg/L	ISO-15923-1:2017			
8	Fluoride (as F)	0.46	mg/L	ISO-15923-2:2017			
9	Free Residual Chlorine	BLQ (LOQ:0.05)	mg/L	APHA, 24th Ed., 4500- Cl.G.357: 2023			
10	Iron (as Fe)	0.255	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007			
11	Magnesium (as Mg)	20.4	mg/L	IS 3025 (Part 46): 1994			
12	Nitrate (as NO ₃)	3.1	mg/L	APHA, 24th Ed., 4500- NO3.B, 434: 2023			
13	Sulphate (as SO ₄)	32	mg/L	ISO-15923-1:2017			
14	Total Alkalinity (as CaCO ₃)	87	mg/L	ISO-15923-2:2017			
15	Total Hardness (as CaCO ₃)	160	mg/L	IS 3025 (Part 21) Method No.5: 1983			
16	Total Phosphate (as P)	BLQ (LOQ:0.1)	mg/L	ISO-15923-1:2017			
17	Silica (as SiO ₂)	0.92	mg/L	IS 3025 (Part 35) Method No.4: 1988			
Biological Testing; Group: Water							
Bacteriological Parameters							
18	Total Coliforms	Present	/100 ml	APHA, 24th Ed., 9221-D, 1140: 2023			
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification							



Akshata Pagare
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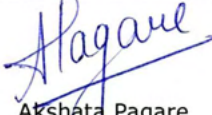




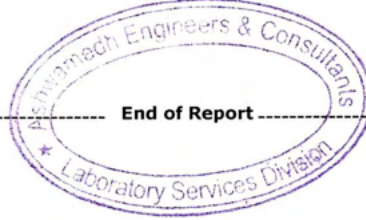
Ninad Soundankar
Technical Manager (Chemical)
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Sample ID : W/01/25/0396	Report No. W/01/25/0396	Report Date	23/01/2025
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Ninad Soundankar
Technical Manager (Chemical)
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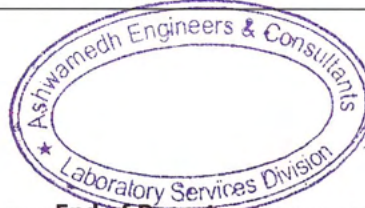
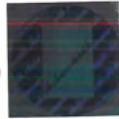


NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/12/24/0820	Report No.: N/12/24/0820	Report Date	03/01/2025
Name and Address of Customer	Lokmangal Mauli Industries Ltd. A/P-Lohara (Khurd), Tal-Lohara, Dist. Dharashiv-413608		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	JO No. 24-25/1CO00028 JO Date 05/12/2024	Date-Monitoring	28/12/2024

Chemical Testing; Group: Atmospheric Pollution			
Location	Time (h)	Results Noise Level dB (A)	Method
1. Near Main Gate	01:00	65.4	CPCB Protocol for Ambient Level Noise Monitoring, July:2015
Limits			
As Per Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))			
Area Type	Limits in dB (A) weighted scale		
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)	
Industrial	75	70	


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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/12/24/0821	Report No.: N/12/24/0821	Report Date	04/01/2025
Name and Address of Customer	Lokmangal Mauli Industries Ltd. A/P-Lohara (Khurd), Tal-Lohara, Dist. Dharashiv-413608		
Monitoring Done By	Laboratory	Sample Description /Type	Workplace Noise
Order Reference	JO No. 24-25/1CO00028 JO Date 05/12/2024	Date of Monitoring	28/12/2024

Chemical Testing; Group: Atmospheric Pollution				
Sr. No.	Location	Time (h)	Result Noise Level dB (A)	Method
1	Near Boiling House	01:20	74.2	CPCB Protocol for Ambient Level Noise Monitoring, July:2015
2	Mill House	01:30	80.4	
3	Near Turbine	01:40	82.0	
Limit 63.8				
Permissible Exposure Period as Per Maharashtra Factories Rules, 1963, Schedule XXIV Table 1				
Total hours of sound exposure per day			Level	
Hours			dB(A)	
8			90	
6			92	
4			95	

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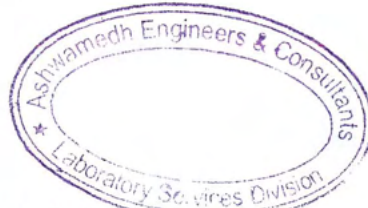
NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/12/24/3619	Report No.: N/12/24/3619N	Report Date	03/01/2025
Name and Address of Customer	Lokmangal Mauli Industries Ltd. A/P-Lohara (Khurd), Tal-Lohara, Dist. Dharashiv-413608		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	JO No. 24-25/1CO00028 JO Date 05/12/2024	Date-Monitoring	28/12/2024

Chemical Testing; Group: Atmospheric Pollution							
Sr. No.	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
1.	DG Set-1010 KVA I	11:11	A1	98.6	A2	73.4	25.2
		11:15	B1	98.2	B2	73.2	25.0
		11:20	C1	99.1	C2	73.8	25.3
		11:25	D1	98.4	D2	73.3	25.1
			Average	98.6	Average	73.4	25.2

Note: Standards as per MPCB Consent Condition Minimum 25 dB (A) insertion Loss.


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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/12/24/3620	Report No.: N/12/24/3620N	Report Date	03/01/2025
Name and Address of Customer	Lokmangal Mauli Industries Ltd. A/P-Lohara (Khurd), Tal-Lohara, Dist. Dharashiv-413608		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	JO No. 24-25/1CO00028 JO Date 05/12/2024	Date-Monitoring	28/12/2024

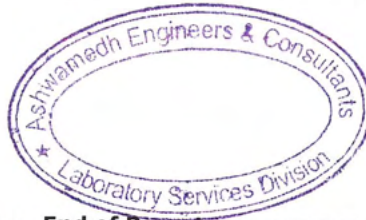
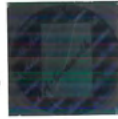
Chemical Testing; Group: Atmospheric Pollution

Sr. No.	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
1.	DG Set 1010 KVA II	11:40	A1	98.8	A2	73.5	25.3
		11:45	B1	98.0	B2	72.8	25.2
		11:50	C1	98.2	C2	73.2	25.0
		11:55	D1	98.6	D2	73.5	25.1
			Average	98.4	Average	73.2	25.1

Note: Standards as per MPCB Consent Condition Minimum 25 dB (A) insertion Loss.

[Signature]

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-----**End of Report**-----

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