



**Lokmangal**  
SUCCESS THROUGH TOTAL DEDICATION

**LOKMANGAL MAULI INDUSTRIES LIMITED**

CIN : U15421PN2007PLC130585

Ref.: LMIL/Co-gen/Enviro-Dept/2024-2025/000554

Date: 11/11/2024

To,  
Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (WCZ), Ground Floor, East Wing,  
New Secretariat Building Civil Lines,  
Nagpur-440001.

Subject: Submission of Half-Yearly Post Environment Clearance Compliance Report (1 April 2024 to 30 September 2024 ) \_ 30 MW Cogeneration Plant

Respected Sir,

I am writing to submit the half-yearly post-environment clearance compliance report for the period of 1 April 2024 to 30 September 2024, in accordance with the Environmental Clearance letter vide no J-13012/02/2012-IA.II (T) Dated. 25.02.2014.

This report pertains to our 30 MW Co-generation unit, operated by M/s Lokmangal Mauli Industries Ltd., located at Village- Lohara (Kh), Tal- Lohara, and Dist- Osmanabad, State: Maharashtra. We have diligently complied with the conditions stipulated in the Environmental Clearance letter, as well as the provisions of the EIA Notification 2006.

Kindly accept the same.

Thanking you.

Yours faithfully,

For, Lokmangal Mauli Industries Limited,

  
Parag Patil,  
Director.



Copy to: - SRO, MPCB, Latur

Factory : A/p : Lohara(kh)-Khed, Tal.: Lohara, Dist.: Osmanabad - 413 608.

Regd. Off. : Lokmangal House, 8536 A/11, Murarji Peth, Near Old Poona Naka, Solapur - 413 001.

Tel : + 91 217 2735517/18| Fax: + 91 217 2735619 | Email : contact@lokmangal.com | www.lokmangal.com

ISO 9001: 2015 Certified Sugar Factory  
FSSC 22000:2010 Certified Sugar Factory

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

<b>Proposal No</b>	IA/MH/THE/19304/2013
<b>Compliance ID</b>	111292856
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/111292856/2025
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)
<b>Submission Date</b>	08-02-2025
<b>RO/SRO Name</b>	Dr Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	MAHARASHTRA
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Nagpur

**Note:-** SMS and E-Mail has been sent to Dr Senthil Kumar Sampath, MAHARASHTRA with Notification to Project Proponent.

**Half Yearly Compliance Report****2024****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

<b>Proposal Name</b>	Lokmangal Mauli Industries Ltd (30 MW Biomass/Bagasse based Co-generation Plant), located at Lohara (Kh), Tal-Lohara, and Dist-Osmanabad, Maharashtra		
<b>Name of Entity / Corporate Office</b>	Parag Patil		
<b>Village(s)</b>	Lohara Kh.		
<b>District</b>	OSMANABAD		
<b>Proposal No.</b>	IA/MH/THE/19304/2013	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	67,68,69,80	<b>Sub-District</b>	Lohara
<b>State</b>	MAHARASHTRA	<b>Entity's PAN</b>	*****4457C
<b>MoEF File No.</b>	J-13012/02/2012-IA.II (T)	<b>Entity name as per PAN</b>	LOKMANGAL MAULI INDUSTRIES LIMITED

**Compliance Reporting Details**

<b>Reporting Year</b>	2024
<b>Remarks (if any)</b>	
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** Parag Patil

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	50	33
Revenue Land	0	0
Forest	0	0
Others	0	0
<b>Total</b>	<b>50</b>	<b>33</b>

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Power	MW	31/07/2025	30	52817 MW in 2023-24 FY	30

**Conditions**

## Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	To control the particulate emission from the boiler. ESP meeting 100 mg/ Nm3 shall be installed.
<b>PPs Submission:</b> Complied We have installed an ESP to control our boiler emissions, with a designed emission limit of less than 100 mg/Nm3		Date: 08/02/2025
2	AIR QUALITY MONITORING AND PRESERVATION	Bag filters shall be provided for control of fugitive emissions from the ash handling areas.
<b>PPs Submission:</b> Complied We provide bag filter for control of fugitive emissions from the ash handling areas		Date: 08/02/2025
3	AIR QUALITY MONITORING AND PRESERVATION	A stack of 76 m height shall be installed.
<b>PPs Submission:</b> Complied We have installed 85-meter height of stack to more take care of boiler stack emission		Date: 08/02/2025
4	MISCELLANEOUS	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action Plan for implementation shall be submitted to the Ministry.
<b>PPs Submission:</b> Complied factory has implemented a rainwater harvesting system that collects rainwater from rooftops, paved areas, and open spaces, totaling 34,846 sq. m. The collected rainwater is stored in a 9000 cubic meter percolation pond for groundwater recharge, aligning with regulatory requirements for water conservation.		Date: 08/02/2025
5	MISCELLANEOUS	COC of 4.0 shall be adopted.
<b>PPs Submission:</b> Complied We have adopted COC of 4.0 for our TG cooling towers		Date: 10/12/2024
6	WASTE MANAGEMENT	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCS.
<b>PPs Submission:</b> Complied We have installed primary treatment plant for generated effluent in Co-generation unit and its DM plant and recycled for ash quenching, sugar process and spray on roads.		Date: 08/02/2025
7	WASTE MANAGEMENT	Fly ash generated shall be provided to farmers to be used as manure or disposed of as per Fly Ash Utilization Notification, 1999 and as amended subsequently.
<b>PPs Submission:</b> Complied Agreed, we are provided the fly ash to farmers and Bricks manufacturer		Date: 07/02/2025

8	Corporate Environmental Responsibility	A minimum amount of 0.4 percentage of the project cost as one time capital cost shall be earmarked for activities to be taken up under CSR during construction phase of the Project. Recurring expenditure for CSR thereafter shall be 1/5th of the capital cost per annum or as per CSR guidelines of Govt. of India, whichever is more till the life of the plant.
<b>PPs Submission:</b> Complied We have done approximately 1.6 Cr rupees worth of works through CSR in nearby areas of plant and Villages in sector of water harvesting, tree plantation, drinking water availability etc.		Date: 07/02/2025
9	Corporate Environmental Responsibility	CSR schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR employment of local youth after imparting relevant training. As may be necessary. Shall be undertaken as committed.
<b>PPs Submission:</b> Complied Agreed		Date: 10/12/2024
10	Corporate Environmental Responsibility	It shall be ensured that an in-built monitoring mechanism for the CRS schemes identified is in place and annual social audit shall be got done from the nearest Government institute of repute in the region. The project proponent. Shall also submit the status of implementation of the scheme from time to time besides putting their programs along with budgetary allocation on company's web site.
<b>PPs Submission:</b> Complied Agreed		Date: 10/12/2024
11	GREENBELT	Green Belt consisting of 3 tiers of plan actions of native species around the plant boundary comprising of at least 33 percentage of total land for both sugar plant and proposed thermal power plant shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80 percentage.
<b>PPs Submission:</b> Complied We have developed a green belt covering more than 33 percentage of the total land, with a 3-tier plantation of native species. A total of 13,000 nos of trees have been planted inside and outside the factory premises, achieving a density of over 2500 trees/ha and a survival rate exceeding 80 percent.		Date: 08/02/2025
12	MISCELLANEOUS	An Environment Cell shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the organization.
<b>PPs Submission:</b> Complied We have created the Environment Cell and head of the cell is directly report to the Head of the organization.		Date: 08/02/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe

		drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
<b>PPs Submission:</b> Complied We had provided housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc in factory construction period		Date: 07/02/2025
2	Corporate Environmental Responsibility	The project proponent shall also adequately contribute in the development or the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
<b>PPs Submission:</b> Complied We have done this work in under of CSR activities		Date: 07/02/2025
3	Corporate Environmental Responsibility	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poorer sections of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating program. Vocational training program for possible self-employment shall be imparted to pre identified villagers free of cost.
<b>PPs Submission:</b> Complied Agreed		Date: 07/02/2025
4	GREENBELT	Green Belt consisting of 3 tiers of plantations of native species around the plant and at least 50 m width all around shall be developed except in places not feasible which shall be clearly specified and justification submitted. The vegetation density of trees shall not be less than 2500 per Ha and rate of survival at least 75percentage.
<b>PPs Submission:</b> Complied A green belt encompassing 33 percentage of the total plant area has been established. This green belt comprises three tiers of native species, achieving a tree density exceeding 2500 per hectare. Rigorous monitoring ensures a survival rate surpassing 80 percentage, fulfilling the green belt requirements.		Date: 08/02/2025
5	MISCELLANEOUS	An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and social scientist, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification It shall be ensured that the Head of the Cell shall directly report to the head of the organization who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.
<b>PPs Submission:</b> Complied We have created the Environment Cell and head of the cell is directly report to the Head of the organization.		Date: 08/02/2025
6	MISCELLANEOUS	The project proponent shall advertise in at least two local

		newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .
<p><b>PPs Submission:</b> Complied</p> <p>In accordance with the environmental clearance letter, Lokmangal Mauli Ind Ltd has published advertisements within seven days in two local newspapers widely circulated in the Lohara, Osmanabad region. One of these newspapers is in the local Marathi language, ensuring accessibility for the community.</p>		<p>Date: 08/02/2025</p>
7	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any. Received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
<p><b>PPs Submission:</b> Complied</p> <p>Agreed, EC has been put in the company website</p>		<p>Date: 07/02/2025</p>
8	AIR QUALITY MONITORING AND PRESERVATION	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results or monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5. and. PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.
<p><b>PPs Submission:</b> Complied</p> <p>We are regularly uploads the status of environmental clearance compliance, including monitoring data, on our company website, also we have displayed our environmental pollution parameters on company main gate at a prominent location for public access.</p>		<p>Date: 07/02/2025</p>
9	Statutory compliance	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
<p><b>PPs Submission:</b> Complied</p> <p>Lokmangal Mauli Ind Ltd submits an annual environmental statement in Form V to the Maharashtra State Pollution Control Board (MPCB) each year, as mandated by the Environment (Protection) Rules, 1986. This statement, along with the project's environmental clearance compliance status, is also uploaded on the company website.</p>		<p>Date: 08/02/2025</p>
10	Statutory compliance	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their

		website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.
<b>PPs Submission:</b> Complied Agreed		Date: 07/02/2025
11	MISCELLANEOUS	Regional Office of the Ministry of Environment and Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly bases. Criteria pollutants levels including NOx (from stack and ambient air) shall be displayed at the main gate of the power plant.
<b>PPs Submission:</b> Complied Agreed		Date: 07/02/2025
12	MISCELLANEOUS	Separate funds shall be allocating for implementation of environmental protection measures along with item-wise break-up. These Cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year- wise expenditure should be reported to the Ministry.
<b>PPs Submission:</b> Complied We have allocated the separate fund for environment protection measures and Cost is included as part of the project cost. The funds earmarked for the environment protection measures are not diverted for other purposes.		Date: 07/02/2025
13	MISCELLANEOUS	The project authorities shall inform the Regional, Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
<b>PPs Submission:</b> Complied Agreed		Date: 07/02/2025
14	MISCELLANEOUS	Full cooperation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would monitor the compliance of environmental status.
<b>PPs Submission:</b> Complied Agreed		Date: 07/02/2025
15	MISCELLANEOUS	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.
<b>PPs Submission:</b> Complied The project has maintained the integrity of all water bodies and natural drainage systems within the vicinity. No disturbances have occurred due to plant setup or operations.		Date: 10/12/2024
16	WATER QUALITY MONITORING AND	Monitoring surface water quality and quantity in the area shall also be regularly conducted and records maintained. The monitored data



	PRESERVATION	shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained.
<b>PPs Submission:</b> Complied We did monitoring of surface water and ground water quality in the nearby area from NABL accredited laboratories.		Date: 08/02/2025
17	WASTE MANAGEMENT	Wastewater generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB.
<b>PPs Submission:</b> Complied We have installed adequately designed primary treatment plant for generated effluent in Co-generation unit and its DM plant and recycled for ash quenching, sugar process.		Date: 08/02/2025
18	WASTE MANAGEMENT	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.
<b>PPs Submission:</b> Complied The Cogen plant exclusively recirculates, and reuses treated effluents that meet prescribed standards. also, we have taken all measures to prevent the mixing of effluents and stormwater.		Date: 07/02/2025
19	WASTE MANAGEMENT	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation. Continuous monitoring of effluent discharge shall be undertaken and it shall be ensured that when discharge enters the natural drain the temperature of effluent shall be at ambient.
<b>PPs Submission:</b> Complied We have provided septic tank followed by soak pit for our generated domestic effluent, we are monitor domestic treated effluent parameters from NABL accredited laboratory time to time.		Date: 07/02/2025
20	MISCELLANEOUS	A well-designed rainwater harvesting system shall be put in place which shall comprise of rainwater collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the Regional Office of the Ministry within six months.
<b>PPs Submission:</b> Complied factory has implemented a rainwater harvesting system that collects rainwater from rooftops, paved areas, and open spaces, totaling 34,846 sq. m. The collected rainwater is stored in a 9000 cubic meter percolation pond for groundwater recharge, aligning with regulatory requirements for water conservation.		Date: 08/02/2025
21	Noise Monitoring & Prevention	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to none noisy/less noisy areas.
<b>PPs Submission:</b> Complied Noise levels from turbines are maintained below 85 dB(A) in the work zone. All employees in high noise areas use earplugs or earmuffs. Regular audiometric tests are conducted for workers in noisy areas like turbine areas.		Date: 08/02/2025
22	AIR QUALITY	Regular monitoring of ambient air ground level concentration of

	MONITORING AND PRESERVATION	SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> and PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
<b>PPs Submission:</b> Complied Regular monitoring of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , and Hg levels is conducted in the impact zone by NABL accredited laboratories		Date: 08/02/2025
23	Noise Monitoring & Prevention	Well-designed acoustic enclosures for the DG sets and noise emitting equipment's to achieve the desirable insertion loss viz. 25 dB (A) should be provided.
<b>PPs Submission:</b> Complied Well-designed acoustic enclosures have been installed for DG sets and noise-emitting equipment, achieving a minimum insertion loss of 25 dB(A), monitor by NABL accredited laboratory.		Date: 08/02/2025
24	LAND RECLAMATION	Additional soil for leveling of the sites should be generated within the site in a way that natural drainage system of the area is protected and improved.
<b>PPs Submission:</b> Complied The required soil for site leveling was sourced exclusively from within the site boundaries. The process was meticulously executed to not only protect but enhance the natural drainage system of the area.		Date: 07/02/2025
25	Risk Mitigation and Disaster Management	Storage facilities for auxiliary liquid fuel such as LDO/ HFO/ LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5 percentage Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
<b>PPs Submission:</b> Complied Agreed.		Date: 07/02/2025
26	Human Health Environment	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
<b>PPs Submission:</b> Complied We had provided First Aid and sanitation arrangements provided to the drivers and other contract workers during construction phase.		Date: 07/02/2025
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		
<b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.		

**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	<b>Lokmangal Mauli Industries Ltd.</b> 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 <sub>10</sub> : 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 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
<b>Chemical Testing; Group: Atmospheric Pollution</b>				
Sulphur Dioxide (SO <sub>2</sub> )	<b>BLQ</b> (LOQ:4)	80	µg/m <sup>3</sup>	IS 5182 (Part 2/Sec 1): 2023
Nitrogen Dioxide (NO <sub>2</sub> )	<b>10.9</b>	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	<b>48</b>	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	<b>14</b>	60	µg/m <sup>3</sup>	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	<b>1.56</b>	4	mg/m <sup>3</sup>	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013

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

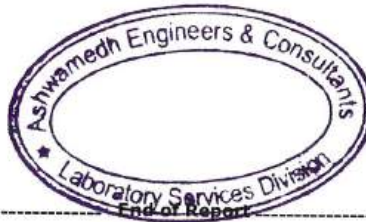
TWA : Time Weighted Average

# : NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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



Saanvi Dalal  
Section In-charge (Chemical)  
Reviewed & Authorised by



Note:

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.





**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	<b>Lokmangal Mauli Industries Ltd.</b> 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 <sub>10</sub> : 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 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 <sub>2</sub> )	<b>BLQ</b> (LOQ:4)	80	µg/m <sup>3</sup>	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO <sub>2</sub> )	<b>BLQ</b> (LOQ:6.5)	80	µg/m <sup>3</sup>	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	<b>44</b>	100	µg/m <sup>3</sup>	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	<b>11</b>	60	µg/m <sup>3</sup>	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Carbon Monoxide (CO)	<b>1.36</b>	4	mg/m <sup>3</sup>	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, PM<sub>10</sub>, PM<sub>2.5</sub>, 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

*Saanvi Dalal*

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Section In-charge (Chemical)  
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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	<b>Lokmangal Mauli Industries Ltd.</b> 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 <sub>10</sub> : 1 x 3 no. filter paper PM <sub>2.5</sub> : 1 x 1 no. filter paper SO <sub>2</sub> , NO <sub>2</sub> : 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
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Parameter	Result	NAAQS# 2009	Unit	Method
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**Chemical Testing; Group: Atmospheric Pollution**

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

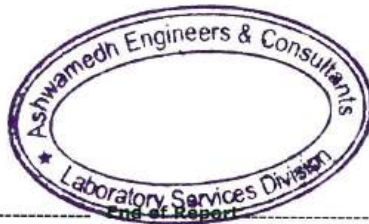
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

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, PM<sub>10</sub>, PM<sub>2.5</sub>, 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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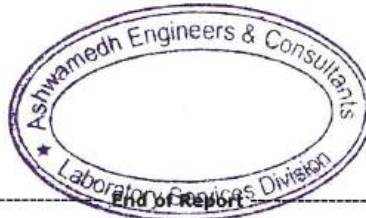




**STACK EMISSION MONITORING REPORT**

Sample ID : SA/12/24/0819	Report No. SA/12/24/0819	Report Date	04/01/2025
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> 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 <sub>2</sub> : 30 ml x 1 no. plastic bottle NO <sub>2</sub> : 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
<b>Stack Details</b>			
~ 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		
<b>Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>Method</b>
<b>Chemical Testing; Group: Atmospheric Pollution</b>			
Flue Gas Temperature	<b>115</b>	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	<b>7.8</b>	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	<b>147174</b>	Nm <sup>3</sup> /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	<b>14</b>	mg/Nm <sup>3</sup>	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO <sub>2</sub> )	<b>BLQ (LOQ:5)</b>	mg/Nm <sup>3</sup>	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO <sub>2</sub> )	<b>BLQ (LOQ:0.02)</b>	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO <sub>2</sub> )	<b>15.9</b>	mg/Nm <sup>3</sup>	IS 11255 (Part 7): 2017
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification			

  
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End of Report

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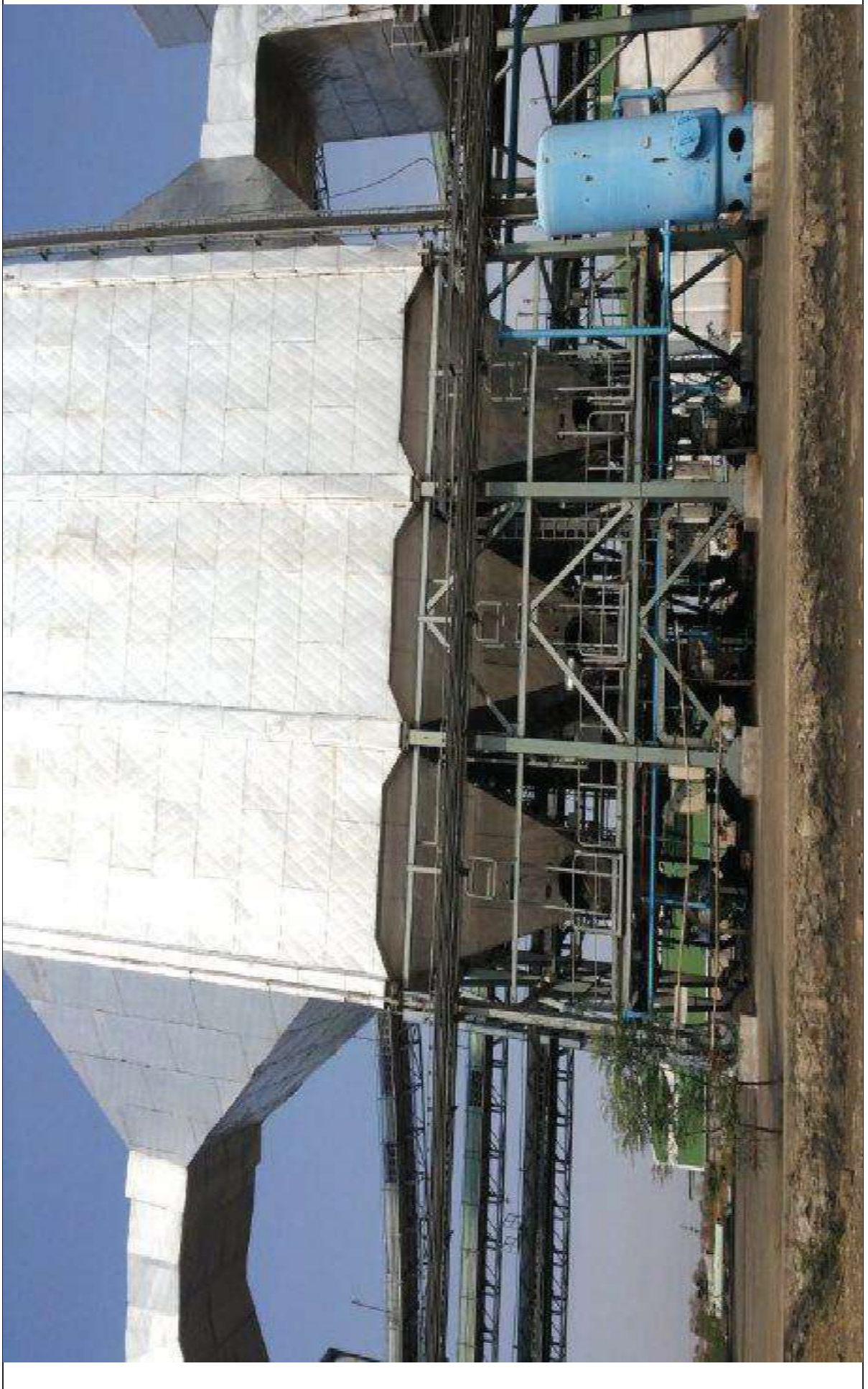
**Disclaimer**

Information is supplied by the customer (~) and can affect the validity of results.





Photographs of ESP system











**NOISE LEVEL MEASUREMENT REPORT**

Sample ID: N/02/24/0571	Report No.: N/02/24/0571	Report Date	29/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date of Monitoring	24/02/2024

**Chemical Testing; Group: Atmospheric Pollution**

Sr. No.	Location	Time (h)	Result Noise Level dB (A)	Method
1	Near Boiling House	01:00	75.8	CPCB Protocol for Ambient Level Noise Monitoring, July,2015
		22:40	73.2	
2	Near Mill House	01:20	79.2	
		22:50	70.9	
3	Near Turbine	01:40	77.6	
		23:00	74.1	

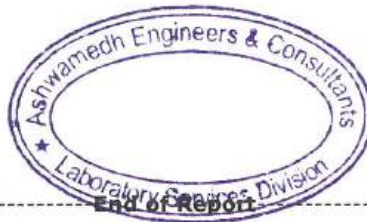
**Limit**

**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

*(Signature)*

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Technical Manager (Chemical)  
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### NOISE LEVEL MEASUREMENT REPORT

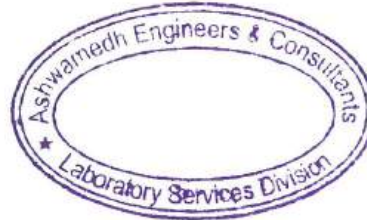
Sample ID: N/02/24/0570	Report No.: N/02/24/0570	Report Date	29/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date of Monitoring	24/02/2024

#### Chemical Testing; Group: Atmospheric Pollution

Location	Time (h)	Results	Results	Method
		Noise Level dB (A) Fast Response	Noise Level dB (A) Slow Response	
A. Near Main Gate	10:30	65.2	66.7	CPCB Protocol for Ambient Level Noise Monitoring, July-2015
	22:40	59.7	64.4	
<b>Limits</b>				
<b>As Per the Noise Pollution (Regulation &amp; Control) Rules, 2000 (Rules 3 (1) and 4(1))</b>				
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

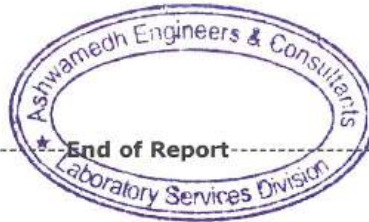
Sample ID: N/02/24/3605	Report No.: N/02/24/3605N	Report Date	29/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date-Monitoring	24/02/2024

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	03:00	A1	97.7	A2	72.5	25.2
		03:05	B1	96.9	B2	71.9	25.0
		03:10	C1	98.4	C2	73.3	25.1
		03:15	D1	97.5	D2	72.5	25.0
			<b>Average</b>	<b>97.6</b>	<b>Average</b>	<b>72.5</b>	<b>25.0</b>

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

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### NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/02/24/3606	Report No.: N/02/24/3606N	Report Date	29/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date-Monitoring	24/02/2024

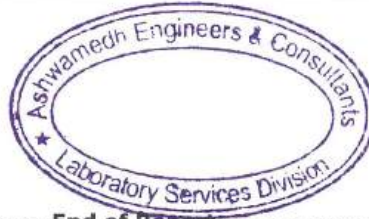
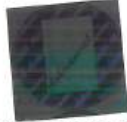
#### Chemical Testing; Group: Atmospheric Pollution

Sr. No.	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
1.	DG SET 1010 KVA II	03:40	A1	97.4	A2	72.4	25.0
		03:45	B1	96.5	B2	71.3	25.2
		03:50	C1	97.9	C2	72.8	25.1
		03:55	D1	98.6	D2	73.6	25.0
			<b>-Average</b>	<b>97.6</b>	<b>Average</b>	<b>72.5</b>	<b>25.0</b>

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

*MS/S*

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## NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/02/24/09	Report No.: N/02/24/09	Report Date	05/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Workplace Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date of Monitoring	30/01/2024

### Chemical Testing; Group: Atmospheric Pollution

Sr. No.	Location	Time (h)	Result Noise Level dB (A)	Method
1	Near Boiling House	12:00	80.4	CPCB Protocol for Ambient Level Noise Monitoring, July-2015
		22:20	76.4	
2	Near Mill House	12:15	75.2	
		22:35	72.6	
3	Near Turbine	12:40	73.8	
		22:50	70.2	

### Limit

#### 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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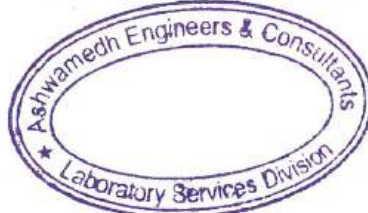


### NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/02/24/08	Report No.: N/02/24/08	Report Date	05/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date of Monitoring	30/01/2024

Chemical Testing; Group: Atmospheric Pollution				
Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate	10:10	64.8	65.1	CPCB Protocol for Ambient Level Noise Monitoring, July:2015
	22:20	59.4	60.7	
Limits				
As Per the 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/02/24/3001	Report No.: N/02/24/3001N	Report Date	05/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date-Monitoring	30/01/2024

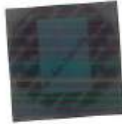
#### Chemical Testing; Group: Atmospheric Pollution

Sr. No.	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
1.	DG SET 1010 KVA I	03:00	A1	97.7	A2	72.5	25.2
		03:05	B1	96.8	B2	71.7	25.1
		03:10	C1	98.5	C2	73.5	25.0
		03:15	D1	97.6	D2	72.5	25.1
			<b>Average</b>	<b>97.6</b>	<b>Average</b>	<b>72.5</b>	<b>25.1</b>

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

*HJS*

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### NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/02/24/3002	Report No.: N/02/24/3002N	Report Date	05/02/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date-Monitoring	30/01/2024

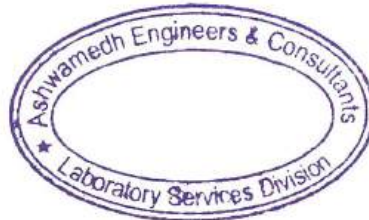
#### Chemical Testing; Group: Atmospheric Pollution

Sr. No.	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
1.	DG SET 1010 KVA II	03:40	A1	97.4	A2	72.3	25.1
		03:45	B1	98.5	B2	73.5	25.0
		03:50	C1	96.7	C2	71.7	25.0
		03:55	D1	97.3	D2	72.1	25.2
			<b>Average</b>	<b>97.4</b>	<b>Average</b>	<b>72.3</b>	<b>25.0</b>

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

*Ninad*

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Technical Manager (Chemical)  
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### NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/01/24/012	Report No.: N/01/24/012	Report Date	04/01/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date of Monitoring	30/12/2023

Chemical Testing; Group: Atmospheric Pollution				
Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate	10:00	67.0	61.8	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/358 36, Issue no.4, Issue date 01.04.2018
	22:40	59.2	57.3	
Limits				
As Per the 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/01/24/013	Report No.: N/01/24/013	Report Date	04/01/2023
Name and Address of Customer	<b>Lokmangal Mauli Industries ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date of Monitoring	30/12/2023

#### Chemical Testing; Group: Atmospheric Pollution

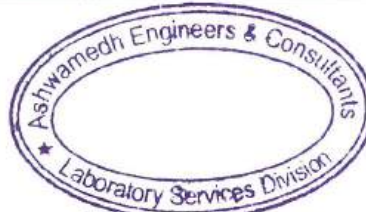
Sr. No.	Location	Time (h)	Result Noise Level dB (A)	Method
1	Near Boiling House	11:00	77.4	CPCB Protocol for Ambient Level Noise Monitoring, July AEC/C/SAP/SAM/356 36. Issue no.:4. Issue date 01.04.2018
		22:15	72.4	
2	Near Mill House	01:15	80.2	
		22:30	71.6	
3	Near Turbine	01:25	72.6	
		22:40	70.8	

#### Limit

#### 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/01/24/3001	Report No.: N/01/24/3001N	Report Date	04/01/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date-Monitoring	30/12/2023

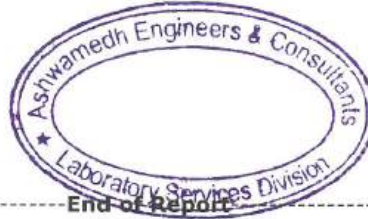
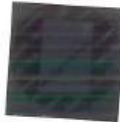
#### Chemical Testing; Group: Atmospheric Pollution

Sr. No.	Location	Time (h)	Sound Level dB (A) Fast Response				Difference
			A	Inside	B	Outside	
1.	DG SET 1010 KVA I	12:30	A1	97.8	A2	72.7	25.1
		12:35	B1	96.5	B2	71.5	25.0
		12:40	C1	97.7	C2	72.5	25.2
		12:45	D1	98.5	D2	73.5	25.0
			<b>Average</b>	<b>97.6</b>	<b>Average</b>	<b>72.5</b>	<b>25.0</b>

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



Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



End of Report

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### NOISE LEVEL MEASUREMENT REPORT

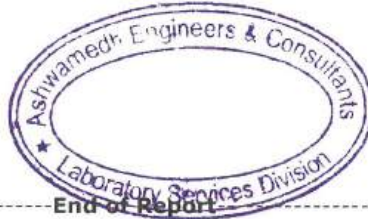
Sample ID: N/01/24/3002	Report No.: N/01/24/3002N	Report Date	04/01/2024
Name and Address of Customer	<b>Lokmangal Mauli Industries Ltd</b> A/p-Lohara (Khurd), Tal. Lohara, Dist. Osmanabad-413608, Maharashtra		
Monitoring Done By	Laboratory	Sample Description /Type	DG Noise
Order Reference	As per JO No.23-24/1CO00035 JO date on 02/12/2023	Date-Monitoring	30/12/2023

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	12:30	A1	97.6	A2	72.6	25.0
		12:35	B1	98.6	B2	73.5	25.1
		12:40	C1	97.4	C2	72.4	25.0
		12:45	D1	96.9	D2	71.7	25.2
			<b>Average</b>	<b>97.6</b>	<b>Average</b>	<b>72.5</b>	<b>25.0</b>

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



Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



End of Report

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ULR-TC55092400003988F

**TEST REPORT**

Sample ID : W/02/24/0505	Report No. W/02/24/0505	Report Date	04/03/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Surface Water
Sampling Location	Makani Dam	Date - Sampling	26/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	27/02/2024
Sampling Procedure	IS 1622:1981 & APHA 24 <sup>th</sup> Ed., 2023, 1060 B, 44, 9060 A, 1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	27/02/2024
Order Reference	W.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr.No.	Parameter	Result	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>				
<b>Physical &amp; Chemical Parameters</b>				
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)	7.14	-	IS 3025 (Part II): 2022
4	Turbidity	BLQ (LOQ:0.2)	NTU	IS 3025 (Part 10) : 2023
5	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3025 (Part 44): 1993
6	Chemical Oxygen Demand	21	mg/L	APHA,24th Ed.,5220.8,544: 2023
7	Total Dissolved Solids	632	mg/L	IS 3025 (Part 16): 2023
8	Calcium (as Ca)	67.3	mg/L	IS 3025 (Part 40), Method No.5: 1991
9	Chloride (as Cl)	122	mg/L	IS 3025 (Part 32),Method No.2: 1988
10	Fluoride (as F)	1	mg/L	IS 3025 (Part 60) Method No.5: 2008
11	Free Residual Chlorine	BLQ (LOQ:0.05)	mg/L	APHA,24th Ed.,4500-Cl,6,357: 2023
12	Iron (as Fe)	0.119	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
13	Magnesium (as Mg)	41.7	mg/L	IS 3025 (Part 46): 1994
14	Nitrate (as NO <sub>3</sub> )	16	mg/L	APHA,24th Ed.,4500-NO3,8,434: 2023
15	Sulphate (as SO <sub>4</sub> )	123	mg/L	IS 3025 (Part 24)/Sec-I: 2022
16	Total Alkalinity (as CaCO <sub>3</sub> )	230	mg/L	IS 3025(Part 23):1986
17	Total Hardness (as CaCO <sub>3</sub> )	340	mg/L	IS 3025 (Part 21) Method No.5: 1983
18	Total Phosphate (as P)	BLQ (LOQ:0.1)	mg/L	APHA,24th Ed.,4500-P,486: 2023
19	Silica (as SiO <sub>2</sub> )	11.2	mg/L	IS 3025 (Part 35) Method No.4: 1988
<b>Biological Testing; Group: Water</b>				
<b>Bacteriological Parameters</b>				
20	Total Coliforms	Present	/100ml	APHA, 24th Ed., 9221-D, 1140: 2023

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

Ulka Belan  
Quality Manager  
Reviewed & Authorised by



Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by





ULR-TC550924000003988F

Sample ID : W/02/24/0505	Report No. W/02/24/0505	Report Date	04/03/2024
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Ulka Belan  
Quality Manager  
Reviewed & Authorised by





Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

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ULR-TC550924000002478F

**TEST REPORT**

Sample ID : W/02/24/06	Report No. W/02/24/06	Report Date	06/02/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Surface Water
Sampling Location	Makhi Dam	Date - Sampling	31/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	01/02/2024
Sampling Procedure	IS 1622:1981 & APHA 24 <sup>th</sup> Ed., 2023, 1060 B, 44, 9060 A, 1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	01/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	05/02/2024

Sr.No.	Parameter	Result	Unit	Method
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**Chemical Testing; Group: Water, Residues in Water**

**Physical & Chemical Parameters**

1	Colour	<b>1</b>	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>7.84</b>	-	IS 3025 (Part 11): 1983
4	Turbidity	<b>0.28</b>	NTU	IS 3025 (Part 10) : 2023
5	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025 (Part 44): 1993
6	Chemical Oxygen Demand	<b>15</b>	mg/L	APHA,24th Ed. 5220.B.544: 2023
7	Total Dissolved Solids	<b>610</b>	mg/L	IS 3025 (Part 16): 2023
8	Calcium (as Ca)	<b>54.5</b>	mg/L	IS 3025 (Part 40), Method No.5: 1991
9	Chloride (as Cl)	<b>124</b>	mg/L	IS 3025 (Part 32), Method No.2: 1988
10	Fluoride (as F)	<b>1.0</b>	mg/L	IS 3025 (Part 60) Method No.5: 2008
11	Free Residual Chlorine	<b>BLQ (LOQ:0.05)</b>	mg/L	APHA,24th Ed. 4500- Cl.G.357: 2023
12	Iron (as Fe)	<b>0.122</b>	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
13	Magnesium (as Mg)	<b>32</b>	mg/L	IS 3025 (Part 46): 1994
14	Nitrate (as NO <sub>3</sub> )	<b>4.55</b>	mg/L	APHA,24th Ed. 4500- NO3.B. 434: 2023
15	Sulphate (as SO <sub>4</sub> )	<b>134</b>	mg/L	IS 3025 (Part 24)/Sec-1: 2022
16	Total Alkalinity (as CaCO <sub>3</sub> )	<b>205</b>	mg/L	IS 3025(Part 23):1986
17	Total Hardness (as CaCO <sub>3</sub> )	<b>268</b>	mg/L	IS 3025 (Part 21) Method No.5: 1983
18	Total Phosphate (as P)	<b>BLQ (LOQ:0.1)</b>	mg/L	APHA,24th Ed. 4500- P.E.486: 2023
19	Silica (as SiO <sub>2</sub> )	<b>7.2</b>	mg/L	IS 3025 (Part 35) Method No.4: 1988

**Biological Testing; Group: Water**

**Bacteriological Parameters**

20	Total Coliforms	<b>Present</b>	/100 ml	APHA, 24th Ed., 9221-D, 1140: 2023
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BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.

*Akshata*  
Akshata Pagare  
Senior Analyst (Biological)  
Reviewed & Authorised by



*Ninad*  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

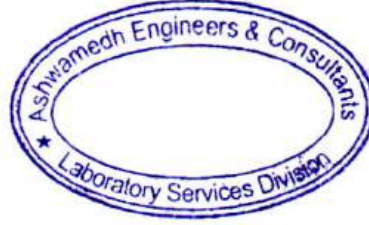


**ULR-TC550924000002478F**

Sample ID : W/02/24/06	Report No. W/02/24/06	Report Date	06/02/2024
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*Akshata Pagare*

Akshata Pagare  
Senior Analyst (Biological)  
Reviewed & Authorised by



*Ninad Soundankar*

Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

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ULR-TC55092400000098F

**TEST REPORT**

Sample ID : W/01/24/011	Report No. W/01/24/011	Report Date	06/01/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Surface Water
Sampling Location	Makhi Dam	Date - Sampling	31/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	01/01/2024
Sampling Procedure	IS 1622:1981 & IS 3025(Part I):1987 & APHA 23rd Ed.2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 & ISO 19458:2006	Date - Start of Analysis	01/01/2024
Order Reference	W.O. No. 23-24/1CO035 dated 02.12.2023	Date - Completion of Analysis	05/01/2024

Sr.No.	Parameter	Result	Unit	Method
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**Chemical Testing; Group: Water, Residues in Water**

**Physical & Chemical Parameters**

1	Colour	<b>1</b>	Hazen units	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>8.73</b>	-	IS 3025 (Part 11):1983
4	Turbidity	<b>0.22</b>	NTU	IS 3025 (Part 10):1984
5	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025 (Part 44): 1993
6	Chemical Oxygen Demand	<b>12</b>	mg/L	APHA, 23rd Ed., 5220-B, 5-18
7	Total Dissolved Solids	<b>550</b>	mg/L	IS 3025 (Part 16): 1984
8	Calcium (as Ca)	<b>52.9</b>	mg/L	IS 3025 (Part 40): 1991
9	Chloride (as Cl)	<b>114</b>	mg/L	IS 3025 (Part 32):1988
10	Fluoride (as F)	<b>0.9</b>	mg/L	IS 3025 (Part 60)
11	Free Residual Chlorine	<b>BLQ (LOQ:0.05)</b>	mg/L	APHA, 23rd Ed., 4500-Cl-G, 4-72
12	Iron (as Fe)	<b>0.158</b>	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
13	Magnesium (as Mg)	<b>31</b>	mg/L	IS 3025 (Part 46): 1994
14	Nitrate (as NO <sub>3</sub> )	<b>3.62</b>	mg/L	APHA, 23rd Ed., 4500-NO3 B-4-127
15	Sulphate (as SO <sub>4</sub> )	<b>130</b>	mg/L	IS 3025 (Part 24)
16	Total Alkalinity (as CaCO <sub>3</sub> )	<b>145</b>	mg/L	IS 3025(Part 23):1986
17	Total Hardness (as CaCO <sub>3</sub> )	<b>260</b>	mg/L	IS 3025 (Part 21): 1983
18	Total Phosphate (as P)	<b>BLQ (LOQ:0.1)</b>	mg/L	APHA, 23rd Ed., 4500 P.E. 4-164
19	Silica (as SiO <sub>2</sub> )	<b>14</b>	mg/L	IS 3025 (Part 35): 1988

**Biological Testing; Group: Water**


**Bacteriological Parameters**

20	Total Coliforms	<b>Present</b>	/100ml	APHA, 23rd Ed., 9221-D, 9-75 P-A Coliform test: 2017
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BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.

  
Sonali Kapse  
Section In-charge (Biological)  
Reviewed & Authorised by



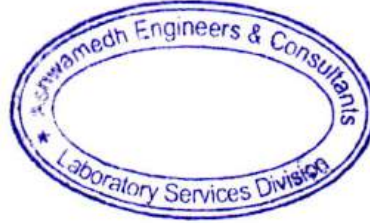
  
Saarvi Dalal  
Section In-charge (Chemical)  
Reviewed & Authorised by



ULR-TC55092400000098F

Sample ID : W/01/24/011	Report No. W/01/24/011	Report Date	06/01/2024
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**Sonali Kapse**  
Section In-Charge (Biological)  
Reviewed & Authorised by



  
**Saanvi Dalal**  
Section In-charge (Chemical)  
Reviewed & Authorised by

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ULR-TC55092400003986F

**TEST REPORT**

Sample ID : W/02/24/0503	Report No. W/02/24/0503	Report Date	04/03/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Khed Village - Well	Date - Sampling	26/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	27/02/2024
Sampling Procedure	IS 1622:1981 & APHA 24 <sup>th</sup> Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B,1097 & ISO 19458:2006	Date - Start of Analysis	27/02/2024
Order Reference	W.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Colour	<b>1</b>	Max. 5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	<b>Agreeable</b>	Agreeable	-	IS 3025 (Part 5): 2018
3	pH value (at 25°C)	<b>7.34</b>	6.5-8.5	-	IS 3025 (Part 11) : 2022
4	Turbidity	<b>BLQ (LOQ:0.2)</b>	Max. 1	NTU	IS 3025 (Part 10) : 2023
5	Total Dissolved Solids	<b>492</b>	Max.500	mg/L	IS 3025 (Part 16): 2023
6	Calcium (as Ca)	<b>59.3</b>	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
7	Chloride (as Cl)	<b>68</b>	Max. 250	mg/L	IS 3025 (Part 32),Method No.2: 1988
8	Fluoride (as F)	<b>0.8</b>	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	<b>BLQ (LOQ:0.05)</b>	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl,6.357: 2023
10	Iron (as Fe)	<b>0.131</b>	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Magnesium (as Mg)	<b>38.8</b>	Max. 30	mg/L	IS 3025 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	<b>4.2</b>	Max.45	mg/L	APHA,24th Ed.,4500- NO3.B, 434: 2023
13	Sulphate (as SO <sub>4</sub> )	<b>48</b>	Max. 200	mg/L	IS 3025 (Part 24)/Sec-1: 2022
14	Total Hardness (as CaCO <sub>3</sub> )	<b>308</b>	Max. 200	mg/L	IS 3025 (Part 21) Method No.5: 1983
15	Total Phosphate (as P)	<b>BLQ (LOQ:0.1)</b>	Not specified	mg/L	APHA,24th Ed.,4500- P.E.486: 2023
16	Silica (as SiO <sub>2</sub> )	<b>5.8</b>	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
<b>Biological Testing; Group: Water</b>					
<b>Bacteriological Parameters</b>					
17	Total Coliforms	<b>Present</b>	Not specified	/100ml	APHA, 24th Ed., 9221-D, 1140: 2023

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

*Selva*  
Ulka Belan  
Quality Manager  
Reviewed & Authorised by



*Ninad Soundankar*  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

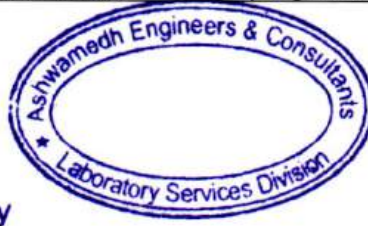


ULR-TC550924000003986F

Sample ID : W/02/24/0503	Report No. W/02/24/0503	Report Date	04/03/2024
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Ulka Belan  
Quality Manager  
Reviewed & Authorised by





Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

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ULR-TC55092400003987F

**TEST REPORT**

Sample ID : W/02/24/0504	Report No. W/02/24/0504	Report Date	04/03/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Lohara Village - Borewell	Date - Sampling	26/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	27/02/2024
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	27/02/2024
Order Reference	W.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Colour	<b>1</b>	Max. 5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	<b>Agreeable</b>	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>7.01</b>	6.5-8.5	-	IS 3025 (Part II) : 2022
4	Turbidity	<b>BLQ</b> <b>(LOQ:0.2)</b>	Max. 1	NTU	IS 3025 (Part 10) : 2023
5	Total Dissolved Solids	<b>1172</b>	Max.500	mg/L	IS 3025 (Part 16): 2023
6	Calcium (as Ca)	<b>160</b>	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
7	Chloride (as Cl)	<b>329</b>	Max. 250	mg/L	IS 3025 (Part 32),Method No.2: 1988
8	Fluoride (as F)	<b>1.2</b>	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	<b>BLQ</b> <b>(LOQ:0.05)</b>	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G.357: 2023
10	Iron (as Fe)	<b>0.079</b>	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Magnesium (as Mg)	<b>97.2</b>	Max. 30	mg/L	IS 3025 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	<b>15</b>	Max.45	mg/L	APHA,24th Ed.,4500- NO3.B. 434: 2023
13	Sulphate (as SO <sub>4</sub> )	<b>324</b>	Max. 200	mg/L	IS 3025 (Part 24)/Sec-I: 2022
14	Total Hardness (as CaCO <sub>3</sub> )	<b>800</b>	Max. 200	mg/L	IS 3025 (Part 21) Method No.5: 1983
15	Total Phosphate (as P)	<b>BLQ</b> <b>(LOQ:0.1)</b>	Not specified	mg/L	APHA,24th Ed.,4500- P.E.486: 2023
16	Silica (as SiO <sub>2</sub> )	<b>8.2</b>	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
<b>Biological Testing; Group: Water</b>					
<b>Bacteriological Parameters</b>					
17	Total Coliforms	<b>Present</b>	Not specified	/100ml	APHA, 24th Ed., 9221-D, 1140: 2023

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

Ulka Belan  
Quality Manager  
Reviewed & Authorised by



Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

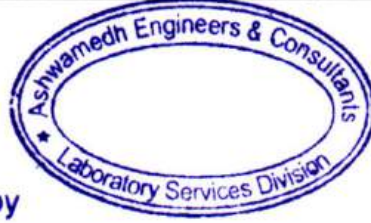


**ULR-TC550924000003987F**

Sample ID : W/02/24/0504	Report No. W/02/24/0504	Report Date	04/03/2024
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*Selan*

**Ulka Belan**  
**Quality Manager**  
**Reviewed & Authorised by**



*Ninad*

**Ninad Soundankar**  
**Technical Manager (Chemical)**  
**Reviewed & Authorised by**

**Note:**

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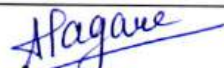
ULR-TC550924000002476F

**TEST REPORT**

Sample ID : W/02/24/04	Report No. W/02/24/04	Report Date	06/02/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell - Khed Village	Date - Sampling	31/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	01/02/2024
Sampling Procedure	IS 1622:1981 & APHA 24 <sup>th</sup> Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B,1097 & ISO 19458:2006	Date - Start of Analysis	01/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	06/02/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Colour	<b>1</b>	Max.5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	<b>Agreeable</b>	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>7</b>	6.5-8.5	-	IS 3025 (Part 11): 1983
4	Turbidity	<b>0.23</b>	Max.1	NTU	IS 3025 (Part 10) : 2023
5	Total Dissolved Solids	<b>738</b>	Max.500	mg/L	IS 3025 (Part 16): 2023
6	Calcium (as Ca)	<b>57.7</b>	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
7	Chloride (as Cl)	<b>152</b>	Max.250	mg/L	IS 3025 (Part 32), Method No.2: 1988
8	Fluoride (as F)	<b>1.1</b>	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	<b>BLQ (LOQ:0.05)</b>	Min. 0.2	mg/L	APHA,24th Ed. 4500- Cl.6.357: 2023
10	Iron (as Fe)	<b>0.246</b>	Max.1	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Magnesium (as Mg)	<b>36</b>	Max. 30	mg/L	IS 3025 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	<b>3.03</b>	Max.45	mg/L	APHA,24th Ed. 4500- NO3.B. 434: 2023
13	Sulphate (as SO <sub>4</sub> )	<b>252</b>	Max.200	mg/L	IS 3025 (Part 24)/Sec-1: 2022
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>120</b>	Max.200	mg/L	IS 3025(Part 23):1986
15	Total Hardness (as CaCO <sub>3</sub> )	<b>292</b>	Max.200	mg/L	IS 3025 (Part 21) Method No.5: 1983
16	Total Phosphate (as P)	<b>BLQ (LOQ:0.1)</b>	Not specified	mg/L	APHA,24th Ed. 4500- P.E.486: 2023
17	Silica (as SiO <sub>2</sub> )	<b>8</b>	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
<b>Biological Testing; Group: Water</b>					
<b>Bacteriological Parameters</b>					
18	Total Coliforms	<b>Absent</b>	Not specified	/100 ml	APHA, 24th Ed. 9221-D, 1140: 2023

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

  
Akshata Pagare  
Senior Analyst (Biological)  
Reviewed & Authorised by



  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



ULR-TC550924000002476F

Sample ID : W/02/24/04	Report No. W/02/24/04	Report Date	06/02/2024
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*A. Pagare*

Akshata Pagare  
Senior Analyst (Biological)  
Reviewed & Authorised by



*N. Soundankar*

Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

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ULR-TC550924000002477F

**TEST REPORT**

Sample ID : W/02/24/05	Report No. W/02/24/05	Report Date	06/02/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell - Lohara Village	Date - Sampling	31/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	01/02/2024
Sampling Procedure	IS 1622:1981 & APHA 24 <sup>th</sup> Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B,1097 & ISO 19458:2006	Date - Start of Analysis	01/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	05/02/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Colour	<b>1</b>	Max.5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	<b>Agreeable</b>	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>7.31</b>	6.5-8.5	-	IS 3025 (Part 11): 1983
4	Turbidity	<b>BLQ (LOQ:0.2)</b>	Max.1	NTU	IS 3025 (Part 10) : 2023
5	Total Dissolved Solids	<b>1164</b>	Max.500	mg/L	IS 3025 (Part 16): 2023
6	Calcium (as Ca)	<b>84.2</b>	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
7	Chloride (as Cl)	<b>300</b>	Max.250	mg/L	IS 3025 (Part 32), Method No.2: 1988
8	Fluoride (as F)	<b>1.8</b>	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	<b>BLQ (LOQ:0.05)</b>	Min. 0.2	mg/L	APHA 24th Ed.4500- Cl.G.357: 2023
10	Iron (as Fe)	<b>1.97</b>	Max. 1	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Magnesium (as Mg)	<b>53.5</b>	Max. 30	mg/L	IS 3025 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	<b>4.16</b>	Max.45	mg/L	APHA 24th Ed.4500- NO3.B. 434: 2023
13	Sulphate (as SO <sub>4</sub> )	<b>34.3</b>	Max.200	mg/L	IS 3025 (Part 24)/Sec-I: 2022
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>175</b>	Max.200	mg/L	IS 3025(Part 23):1986
15	Total Hardness (as CaCO <sub>3</sub> )	<b>430</b>	Max.200	mg/L	IS 3025 (Part 21) Method No.5: 1983
16	Total Phosphate (as P)	<b>BLQ (LOQ:0.1)</b>	Not specified	mg/L	APHA 24th Ed.4500- P.E.486: 2023
17	Silica (as SiO <sub>2</sub> )	<b>13</b>	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
<b>Biological Testing; Group: Water</b>					
<b>Bacteriological Parameters</b>					
18	Total Coliforms	<b>Absent</b>	Not specified	/100 ml	APHA 24th Ed. 9221-D. 1140: 2023

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

*A. Pagare*  
Akshata Pagare  
Senior Analyst (Biological)  
Reviewed & Authorised by

*N. Soundankar*  
Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by



End of Report

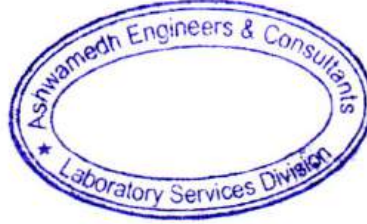


ULR-TC550924000002477F

Sample ID : W/02/24/05	Report No. W/02/24/05	Report Date	06/02/2024
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*Apagare*

Akshata Pagare  
Senior Analyst (Biological)  
Reviewed & Authorised by



*Ninad*

Ninad Soundankar  
Technical Manager (Chemical)  
Reviewed & Authorised by

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ULR-TC55092400000099F

**TEST REPORT**

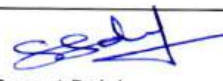
Sample ID : W/01/24/012	Report No. W/01/24/012	Report Date	06/01/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Khed Village - Borewell	Date - Sampling	31/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	01/01/2024
Sampling Procedure	IS 1622:1981 & IS 3025(Part I):1987 & APHA 23rd Ed.2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 & ISO 19458:2006	Date - Start of Analysis	01/01/2024
Order Reference	W.O. No. 23-24/1CO035 dated 02.12.2023	Date - Completion of Analysis	05/01/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Colour	<b>1</b>	Max. 5	Hazen units	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>7.67</b>	6.5-8.5	-	IS 3025 (Part II):1983
4	Turbidity	<b>0.22</b>	Max. 1	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>564</b>	Max.500	mg/L	IS 3025 (Part 16):1984
6	Calcium (as Ca)	<b>60.9</b>	Max. 75	mg/L	IS 3025 (Part 40):1991
7	Chloride (as Cl)	<b>77</b>	Max. 250	mg/L	IS 3025 (Part 32):1988
8	Fluoride (as F)	<b>0.8</b>	Max.1.0	mg/L	IS 3025 (Part 60)
9	Free Residual Chlorine	<b>BLQ</b> <b>(LOQ:0.05)</b>	Min.0.2	mg/L	APHA, 23rd Ed., 4500-Cl-G, 4-72
10	Iron (as Fe)	<b>BLQ</b> <b>(LOQ:0.06)</b>	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Magnesium (as Mg)	<b>34.9</b>	Max. 30	mg/L	IS 3025 (Part 46):1994
12	Nitrate (as NO <sub>3</sub> )	<b>34.4</b>	Max.45	mg/L	APHA, 23rd Ed., 4500-NO <sub>3</sub> B-4-127
13	Sulphate (as SO <sub>4</sub> )	<b>46.1</b>	Max. 200	mg/L	IS 3025 (Part 24)
14	Total Hardness (as CaCO <sub>3</sub> )	<b>296</b>	Max. 200	mg/L	IS 3025 (Part 21):1983
15	Total Phosphate (as P)	<b>BLQ</b> <b>(LOQ:0.1)</b>	Not specified	mg/L	APHA, 23rd Ed., 4500 P.E. 4-164
16	Silica (as SiO <sub>2</sub> )	<b>12</b>	Not specified	mg/L	IS 3025 (Part 35):1988
<b>Biological Testing; Group: Water</b>					
<b>Bacteriological Parameters</b>					
17	Total Coliforms	<b>Absent</b>	Not specified	/100ml	APHA, 23rd Ed., 9221-D, 9-75 P-A Coliform test: 2017

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

  
Sornali Kapse  
Section In-charge (Biological)  
Reviewed & Authorised by



  
Saanvi Dalal  
Section In-charge (Chemical)  
Reviewed & Authorised by







ULR-TC55092400000099F

Sample ID : W/01/24/012	Report No. W/01/24/012	Report Date	06/01/2024
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**Sonali Kapse**  
Section In-Charge (Biological)  
Reviewed & Authorised by



  
**Saanvi Dalal**  
Section In-charge (Chemical)  
Reviewed & Authorised by

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4. There are no additions to, deviations or exclusions from the method.



ULR-TC550924000000100F

**TEST REPORT**


Sample ID : W/01/24/013	Report No. W/01/24/013	Report Date	06/01/2024
Name and address of Customer	<b>Lokmangal Mauli Industries Ltd.</b> A/P. - Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Lohara Village - Borewell	Date - Sampling	31/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Receipt of Sample	01/01/2024
Sampling Procedure	IS 1622:1981 & IS 3025(Part I):1987 & APHA 23rd Ed.2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 & ISO 19458:2006	Date - Start of Analysis	01/01/2024
Order Reference	W.O. No. 23-24/1CO035 dated 02.12.2023	Date - Completion of Analysis	05/01/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
<b>Chemical Testing; Group: Water, Residues in Water</b>					
<b>Physical &amp; Chemical Parameters</b>					
1	Colour	<b>1</b>	Max. 5	Hazen units	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	<b>8.16</b>	6.5-8.5	-	IS 3025 (Part II):1983
4	Turbidity	<b>0.26</b>	Max. 1	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>1222</b>	Max.500	mg/L	IS 3025 (Part 16):1984
6	Calcium (as Ca)	<b>112</b>	Max. 75	mg/L	IS 3025 (Part 40):1991
7	Chloride (as Cl)	<b>252</b>	Max. 250	mg/L	IS 3025 (Part 32):1988
8	Fluoride (as F)	<b>1.4</b>	Max.1.0	mg/L	IS 3025 (Part 60)
9	Free Residual Chlorine	<b>BLQ (LOQ:0.05)</b>	Min.0.2	mg/L	APHA, 23rd Ed., 4500-Cl-G, 4-72
10	Iron (as Fe)	<b>0.102</b>	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Magnesium (as Mg)	<b>58</b>	Max. 30	mg/L	IS 3025 (Part 46):1994
12	Nitrate (as NO <sub>3</sub> )	<b>5.45</b>	Max.45	mg/L	APHA, 23rd Ed., 4500-NO <sub>3</sub> B-4-127
13	Sulphate (as SO <sub>4</sub> )	<b>155</b>	Max. 200	mg/L	IS 3025 (Part 24)
14	Total Hardness (as CaCO <sub>3</sub> )	<b>520</b>	Max. 200	mg/L	IS 3025 (Part 21):1983
15	Total Phosphate (as P)	<b>BLQ (LOQ:0.1)</b>	Not specified	mg/L	APHA, 23rd Ed., 4500 P.E. 4-164
16	Silica (as SiO <sub>2</sub> )	<b>15</b>	Not specified	mg/L	IS 3025 (Part 35):1988
<b>Biological Testing; Group: Water</b>					
<b>Bacteriological Parameters</b>					
17	Total Coliforms	<b>Absent</b>	Not specified	/100ml	APHA, 23rd Ed., 9221-D, 9-75 P-A Coliform test: 2017

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

  
Sonali Kapse  
Section In-charge (Biological)  
Reviewed & Authorised by



  
Saanvi Dalal  
Section In-charge (Chemical)  
Reviewed & Authorised by

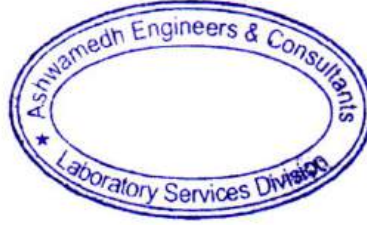




ULR-TC550924000000100F

Sample ID : W/01/24/013	Report No. W/01/24/013	Report Date	06/01/2024
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**Sonali Kapse**  
Section In-Charge (Biological)  
Reviewed & Authorised by



  
**Saanvi Dalal**  
Section In-charge (Chemical)  
Reviewed & Authorised by

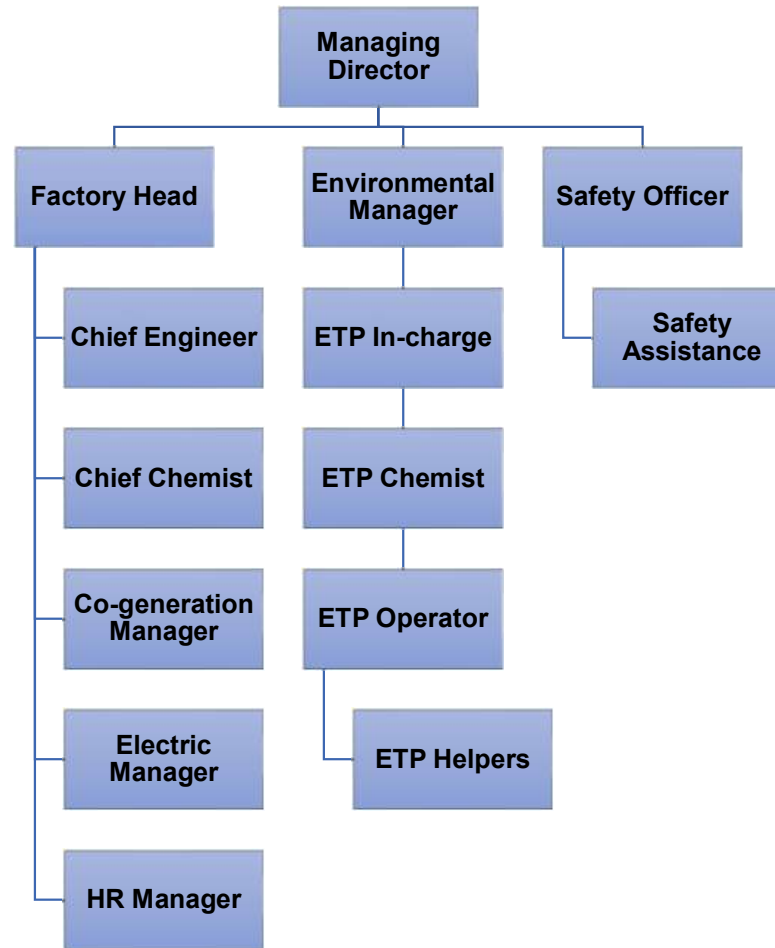
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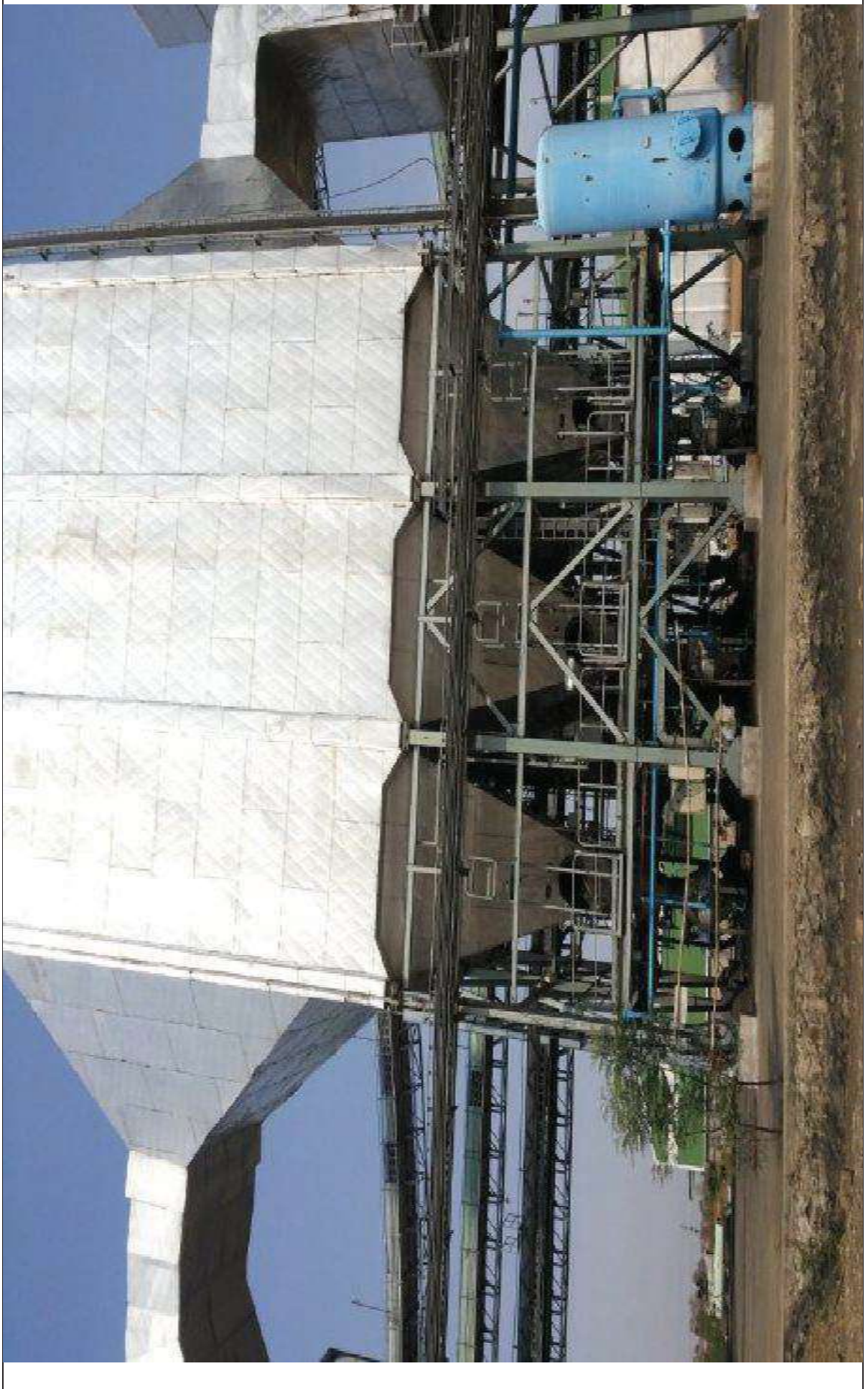




# Lokmangal Mauli Industries Limited



Photographs of ESP system









## **Lokmangal Mauli Industries Ltd.**

**Village-Lohara (Khurd)-Khed,  
Tal-Lohara, Dist Osmanabad.**

### **PUBLIC NOTICE**

This is to inform all concerned that the Ministry of Environment & Forests Government of India, New Delhi has accorded environmental clearance for our proposed 30 MW Bagasse and biomass based cogeneration power plant wide letter F. No. J-13012/02/2012-IA. II (T) dated on 25.02.2014.

The copies of the environmental clearance are available with Maharashtra pollution control Board Office and may also be seen at website of Ministry at <http://moef.nic.in>

**Director  
Lokmangal Mauli Industries Ltd.**

## **लोकमंगल माऊली इंडस्ट्रिज लि;**

लोहारा (खुर्द) खेड, ता. लोहारा, जि. उस्मानाबाद.

### **जाहीर प्रगटन**

पर्यावरण तथा वन मंत्रालय (MOEF) भारत सरकार यांनी लोकमंगल माऊली इंडस्ट्रिज लि. लोहारा (खुर्द) खेड, ता. लोहारा, जि. उस्मानाबाद यांच्या नविन प्रकल्पास ३० मेगावॉट विद्युत निर्मितीसाठी लागणारे पर्यावरण विषयक मंजूरी पत्र (Environmental Clearance) क्र. F.No. J-13012/02/2012-iA.II (T) दिनांक २५ फेब्रुवारी २०१४ नुसार दिलेले आहे. सदरील पत्र महाराष्ट्र प्रदुषण नियंत्रण मंडळ यांचे कार्यालयात अथवा मंत्रालयाची वेबसाईट <http://moef.nic.in> येथे पाहू शकता.

संचालक

**लोकमंगल माऊली इंडस्ट्रिज लि.**

**ADEQUACY REPORT OF CO-GENERATION  
EFFLUENT TREATMENT PLANT**

**LOKMANGAL MAULI INDUSTRIES LIMITED**

Supplier of ETP:	Company Name	Lokmangal Mauli Industries Ltd.	Revision:	0
M/s PRAJ. Ltd., Pune, India.			Revision Date:	01-06-2014
	Project Title:	Primary Effluent Treatment Plant of Co-generation unit	Prepared by:	KD
	Document Title:	Adequacy Report of primary ETP of co-gen unit	Reviewed by:	--
	Project No.:	-	Approved by:	MDD

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Supplier of ETP:	Company Name	Lokmangal Mauli Industries Ltd.	Revision:	0
M/s PRAJ. Ltd., Pune, India.			Revision Date:	01-06-2014
	Project Title:	Primary Effluent Treatment Plant of Co-generation unit	Prepared by:	KD
	Document Title:	Adequacy Report of primary ETP of co-gen unit	Reviewed by:	--
	Project No.:	-	Approved by:	MDD

## 1.0 Introduction

The report is part of proposing treatment of DM regeneration waste water and cooling water.

## 2.0 Quantity of Effluent

The ETP required establishing for the DM regenerated wastewater. The capacity of waste water is 70 m<sup>3</sup>/month. Also cooling water having quantity of 97.67 m<sup>3</sup>/day. Considering the combined wastewater, proposing 100 m<sup>3</sup>/day effluent treatment plant.

## 2.1 Process Description

The waste water from DM regeneration will be acidic and alkaline in nature. Accordingly we need to precipitate the wastewater. The chemicals required for precipitation are Sodium Hydroxide (NaOH) and hydrochloric acid (HCl). So the waste water is precipitated.

The waste water collected in the neutralization pit. The chemically precipitation process takes place in the pit with adequate detention time in the tank. The combined wastewater will be passed to collection tank where liquid & solid separation takes place. The Clear water will be feed to ETP for further treatment & settled sludge will be collected in the sludge pit.

## 2.2 Cation Bed Regeneration

During the production of ultra pure water, cation resin, usually in the hydrogen form, is used to remove cations from the process water and replace them with hydrogen ions. The process continues until the cation resin is exhausted and ceases to function. At this stage Hydrochloric acid is passed through the exhausted resin to recharge it with hydrogen ions and remove the cations The regenerated resin is then put back into service.

Supplier of ETP:	Company Name	Lokmangal Mauli Industries Ltd.	Revision:	0
M/s PRAJ. Ltd., Pune, India.			Revision Date:	01-06-2014
	Project Title:	Primary Effluent Treatment Plant of Co-generation unit	Prepared by:	KD
	Document Title:	Adequacy Report of primary ETP of co-gen unit	Reviewed by:	--
	Project No.:	-	Approved by:	MDD

### 2.3 Anion Bed Regeneration

Anion resin (in the form of hydroxyl) is used to remove anions such as from the process water and replace them with hydroxyl ions. As with the cation resin, this process continues until the resin is exhausted and ceases to function. At this stage other anions are exchanged for hydroxyl ions by regenerating the exhausted resin with Sodium Hydroxide. The regenerated resin is put back into service.

### 2.4 Process scheme

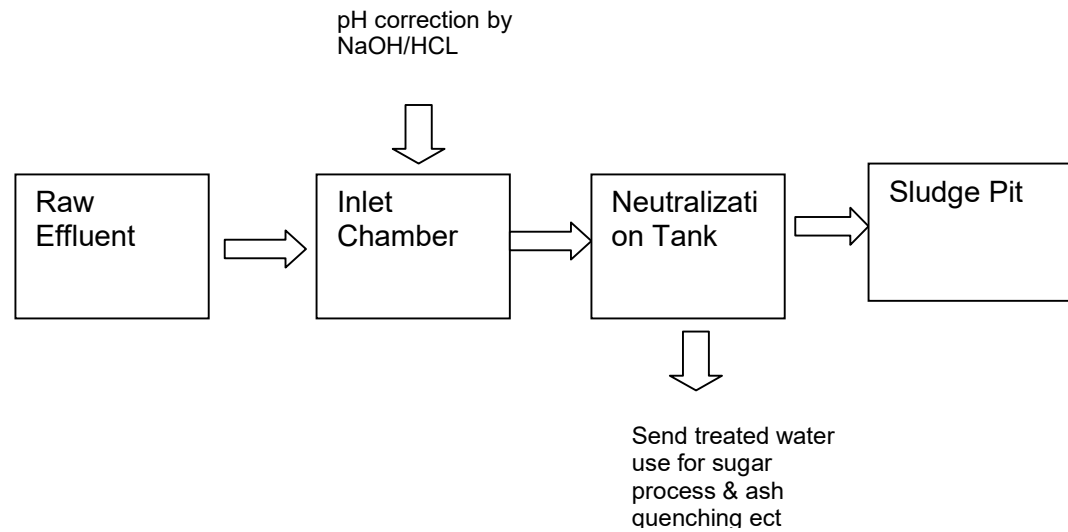
SI No	Description		ETP	Unit
1	Inlet chamber		1 x 1 x 1 m	m <sup>3</sup>
2	Neutralization Tank	:	6.0 m x 3.5 m x 3.6m + 0.5m FB	m <sup>3</sup>
4	Sludge Pit	:	2.0 m x 2.0 m x 2 m + 0.5m FB	m <sup>3</sup>

### 3.0 System -

Proposed neutralization pit, settling tank & sludge pit for primary treatment of DM plant and cooling water. After proper neutralization & settling, effluent will be considered to reuse for sugar process, ash quenching and land scaping etc. Total Dissolved Solids (TDS) in these streams (DM plant effluent) is less than 1500 mg/lit and quantity is less than 10% of total generated effluent.

Supplier of ETP:	Company Name	Lokmangal Mauli Industries Ltd.	Revision:	0
M/s PRAJ. Ltd., Pune, India.	Project Title:	Primary Effluent Treatment Plant of Co-generation unit	Revision Date:	01-06-2014
	Document Title:	Adequacy Report of primary ETP of co-gen unit	Prepared by:	KD
	Project No.:	-	Reviewed by:	--
			Approved by:	MDD

#### 4.0 Process Flow Diagram





**Primary ETP for the DM Plant and Cooling Tower Plant.**

**Photo of Neutralization Pit**



**Photo of Neutralization Pit**

Photo of Sludge Pit.



Photo of Sludge Pit.

# Rainwater Harvesting Report: Lokmangal Mauli Ind Ltd., Lohara, Osmanabad

## 1. Introduction

Lokmangal Mauli Ind Ltd., a prominent sugar and cogeneration industry based in Lohara, Osmanabad, has implemented a rainwater harvesting system to conserve precious water resources and mitigate the impacts of water scarcity. This report presents an overview of the rainwater harvesting system.

## 2. Site Description and Climate

Lokmangal Mauli Ind Ltd. is situated in Lohara, Osmanabad district, which experiences a tropical dry climate with distinct wet and dry seasons. The annual rainfall in the region is approximately 829.2 mm. The site comprises various catchment areas, including rooftops, paved areas, and open spaces, totalling 34,846 square meters.

## 3. Rainwater Harvesting System

### 3.1 Catchment Areas

The rainwater harvesting system at Lokmangal Mauli Ind Ltd. utilizes three primary catchment areas:

- **Rooftops:** Covering an area of 19,388 square meters, the rooftops contribute significantly to rainwater collection.
- **Paved Areas:** With a total area of 15,432 square meters, paved surfaces collect rainwater runoff.
- **Open Areas:** Comprising 62,695 square meters, open areas act as additional catchment areas for rainwater.

### 3.2 Rainwater Availability

Based on the catchment areas and rainfall data, the estimated rainwater available for harvesting annually is 34,846 cubic meters.

Final Catchment area for RHW Calculation		Run Off Coefficient	Average Rainfall Intensity Per annum	Rainwater available for Harvesting per annum
Type	Sq meter	-	-	M3
Roof Top Area	19388	0.8	0.829	12858
Paved Area	15432	0.5	0.829	6396
Open Area	62695	0.3	0.829	15592
Total	-	-	-	34846

Table 1: Rainwater harvesting calculations



### 3.3 Stormwater Collection and Management

The rainwater collected from the catchment areas is channeled through a well-designed drainage system. This system includes RCC grating, RCC open & closed channels to efficiently collect and transport stormwater to the percolation pond.

### 3.4 Percolation Pond

A percolation pond with an area of 3175 square meters and a depth of 3 meters has been constructed to facilitate rainwater infiltration into the ground. The pond has a storage capacity of approximately 9000 cubic meters.



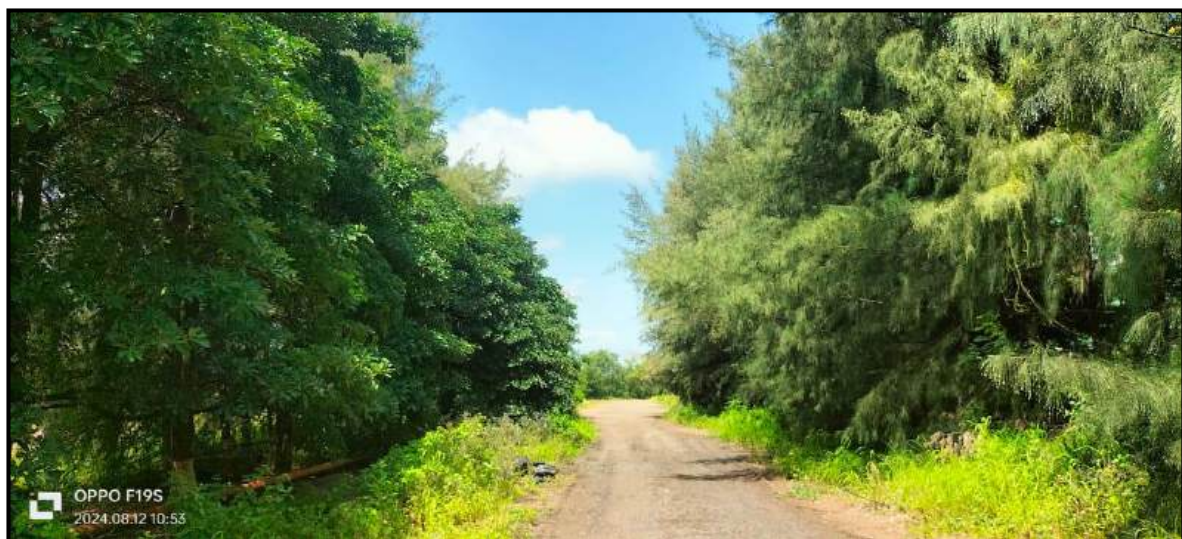
**Details of Tree Plantation for Lokmangal Mauli Industries Limited, Lohara,  
Osmanabad Sugar Factory**

As part of our environmental initiatives, Lokmangal Mauli Industries Limited, Lohara, Osmanabad Sugar Factory has planted around of 23,000 no's of trees. Lokmangal Mauli Industries Limited, Lohara, Osmanabad Sugar Factory is committed to maintaining a balance between industrial operations and environmental sustainability. The extensive open area within the factory premises has been effectively utilized for tree plantation, and our efforts have been extended beyond the factory boundaries to contribute to the greening of the surrounding areas. We will continue to nurture and expand our green initiatives, ensuring that our operations support ecological balance and community well-being.

Sr.no	Marathi Name	English / Common Name	Botanical Names	No of Trees
1	लिंब	Neem / Margosa / Indian lilac	Azardirachta indica	1432
2	आंबा	Mango tree	Mangifera indica	564
3	चिंच	Tamarind	Tamarindus indica	114
4	करंज	Indian beech / Karanja / Pongame oil tree	Millettia pinnata	2900
5	गुलमोहर	Flame tree	Delonix regia	886
6	सिल्वर ओक	Silky oak / southern silky oak	Grevillea robusta	1347
7	गोल्डन ओक	Golden Bamboo	Phullostachys aurea	1760
8	सप्तपर्णी	Indian devil tree / Dita	Alstonia scholaris	1474
9	चाफा	Golden champa	Plumeria alba	1237
10	वसंतरानी	Tabebuia	Trumpet tree	662
11	सुरु	Coastal she oak	Casuarina equisetifalia	363
12	शिसव	Indian rosewood /Sheesham/Blackwood tree	Dalbergia sissoo	1650
13	पळस	Flame of the forest/ flame tree	Peltophorum pterocarpum	2860
14	कसोद / कॅसोड ट्री	Cassia siamea/ caesalpinaceae	Senna siamea	1304
15	ब्लॅक फायकस	Black ficus	Ficus benjamina	955
16	गोल्डन फायकस	Golden ficus	Ficus microcarpa	1040
17	कणेर	Oleander / rosebay	Nerium oleander	1175
18	विलायती शिरीष / पर्जन्य वृक्ष	Rain tree / Monkey pod / Acacia preta	Samanea saman	1114
<b>Total</b>				<b>22837</b>



**Photographs of Green Belt of Lokmangal Mauli Industries Limited, Lohara, Osmanabad Sugar Factory:**





















# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000075033

### Submitted Date

30-09-2024

## PART A

### Company Information

#### Company Name

Lokmangal Mauli Industries Limited

#### Application UAN number

MPCB-CONSENT-0000116031

#### Address

Gat no-67, 68,69,80, Village-Lohara Khurd, Tal : Lohara., Dist Osmanabad-413 551

#### Plot no

67,68,69 & 80

#### Taluka

Lohara

#### Village

Lohara Khurd

#### Capital Investment (In lakhs)

37704.74

#### Scale

L.S.I

#### City

Osmanabad

#### Pincode

#### Person Name

Manish Dapurkar

#### Designation

Manager Environment

#### Telephone Number

8550999195

#### Fax Number

#### Email

contact@lokamangal.com

#### Region

SRO-Latur

#### Industry Category

Red

#### Industry Type

R12 Sugar ( excluding Khandsari)

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000116031

#### Consent Issue Date

2023-03-15

#### Consent Valid Upto

2024-07-31

#### Establishment Year

2014

#### Date of last environment statement submitted

Sep 30 2023 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Electric Power

#### Consent Quantity

262800

#### Actual Quantity

52817

#### UOM

Mwh

Sugar

259200

37400

MT/A

### By-product Information

#### By Product Name

Bagasse

#### Consent Quantity

648000

#### Actual Quantity

125958

#### UOM

MT/A

Molasses

86400

23477

MT/A

Pressmud

86400

9963

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	700.00	249.00
Domestic	495.00	359.00
All others	40.00	16.00
Total	0.00	0.00
	1235.00	624.00

### 2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	660	589	CMD
domestic effluent	25	11	CMD

### 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Power Generating plants (excluding D.G Sets)	1	0.84	Mwh
Sugar (excluding Khandsari)	0.70	0.82	Ton/Ton

### 3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Sugar Cane	11.96	11.23	Ton/Ton

### 4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	534360	116506	MT/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
pH	7.6	7.6	NA	5 to 9	NA
TSS	16.5	28	NA	below 100 mg/l	NA
BOD	5.9	10	NA	below 100 mg/l	NA
COD	23.56	40	NA	below 250 mg/l	NA
TDS	547.77	930	NA	below 2100 mg/l	NA
Chloride	56.54	96	NA	below 600 mg/l	NA
Sulphate	63.6	108	NA	below 1000 mg/l	NA
O&G	0.05	1	NA	below 10 mg/l	NA



### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
TPM	35.4	12	NA	blow 150 mg/Nm3	NA

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0.06	0.13	MT/A
5.2 Wastes or residues containing oil	0.1	0.07	MT/A

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.4 Oil and grease skimming	0.1	0.08	MT/A

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Boiler Ash	3385	3410	MT/A

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
ETP Sludge	32	28	MT/A

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0.06	0.13	MT/A
5.2 Wastes or residues containing oil	0.1	0.07	MT/A
35.4 Oil and grease skimming	0.1	0.08	MT/A

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	0.13	MT/A	oil content 90%
5.2 Wastes or residues containing oil	0.07	MT/A	oil content 10%
35.4 Oil and grease skimming	0.08	MT/A	oil content 50%

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Boiler Ash	3410	MT/A	30-50 % moisture

## Part-G

### Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	0	0	0	0	0	0

## Part-H

### Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

#### [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

#### [B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

## Part-I

### Any other particulars for improving the quality of the environment.

#### Particulars

NA

#### Name & Designation

Manish Dapurkar, manager environment

#### UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000075033

#### Submitted On:

30-09-2024

# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax: 24023516  
Website: <http://mpcb.gov.in>  
Email: [cac-cell@mpcb.gov.in](mailto:cac-cell@mpcb.gov.in)



Kalpataru Point, 2nd, 3rd and  
4th floor, Opp. Cine Planet  
Cinema, Near Sion Circle, Sion  
(E), Mumbai-400022

**No:- Format1.0/CAC/UAN No.MPCB-  
CONSENT-0000216679/CR/2501002491**

**Date: 24/01/2025**

**To,**  
**Lokmangal Mauli Industries Limited,**  
**Gut number -67, 68,69 & 80, Village - Lohara Khurd,**  
**Tal. - Lohara, Dist. - Osmanabad.**



**Sub: Renewal of consent for 6000 TCD sugar and 30 MW cogeneration unit**

- Ref:**
- 1. Earlier consent granted vide no.Format1.0/CAC/UAN No.MPCBCONSENT-0000116031/CR/2303000934 dated 15.03.2023**
  - 2. Environmental Clearance granted vide letter no SEAC-2013/C.R.538/TC-II dated 11.06.2014**
  - 3. Minutes of 9th CAC meeting held in 10.10.2024**

Your application No.MPCB-CONSENT-0000216679 Dated 30.07.2024

For: Grant of Renewal of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 and Rule 18(7) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- 1. The Consent to Renewal is granted upto: 31.07.2025**
- 2. The capital investment of the industry is Rs.398.33 Crs. (As per C.A Certificate submitted by industry).**
- 3. Consent is valid for the manufacture of:**

<b>Sr No</b>	<b>Product</b>	<b>Maximum Quantity</b>	<b>UOM</b>
1	Sugar	21600	MT/M
2	Electric Power	30	Mwh
3	Bagasse	54000	MT/M
4	Press Mud	7200	MT/M
5	Molasses	7200	MT/M

- 3. Industry shall not exceed crushing capacity more 6000 TCD.**



4. **Conditions under Water (P&CP) Act, 1974 for discharge of effluent:**

<i>Sr No</i>	<i>Description</i>	<i>Permitted in CMD</i>	<i>Standards to</i>	<i>Disposal</i>
1.	Trade effluent	660	As per Schedule -I	100 CMD 100% recycle & 560 CMD on land for irrigation.
2.	Domestic effluent	25	As per Schedule - I	On land for gardening

5. **Conditions under the Air (P& CP) Act, 1981 for air emissions:**

<i>Stack No.</i>	<i>Description of stack / source</i>	<i>Number of Stack</i>	<i>Standards to be achieved</i>
1	Boiler (135 TPH)	1	As per Schedule -II
2	DG Set (1000 KVA)	1	As per Schedule -II
3	DG Set (1000 KVA)	1	As per Schedule -II

(As per previous consent of existing unit)

6. **Conditions about Non Hazardous Wastes:**

<i>Sr No</i>	<i>Type of Waste</i>	<i>Quantity</i>	<i>UoM</i>	<i>Treatment</i>	<i>Disposal</i>
1	Fly and bottom ash	480	MT/M	NA	Sale to brick manufacturer/use as a soil conditioner/ use as a binder of compost/use for reclamation
2	ETP sludge	6	MT/M	NA	Use as a manure

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:**

<i>Sr No</i>	<i>Type of Waste</i>	<i>HW Category.</i>	<i>Quantity &amp; UoM</i>	<i>Treatment</i>	<i>Disposal</i>
1	5.1 Used or spent oil	5.1	0.5 MT/M	Incineration	Incinerate in own boiler

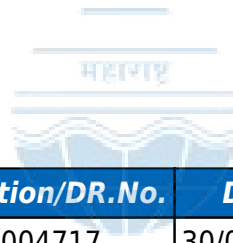
The applicant shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

a. The applicant shall properly collect, transport & regularly dispose of the hazardous waste to CHWTSDF, in compliance of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry shall connect online CMS data as per CPCB guidelines to CPCB & MPCB Servers.
11. Industry shall stop production activity voluntarily in case of failure of operation and maintenance of the ETP system as preventive measures.
12. Industry shall extend all existing BGs towards O&M of pollution control systems and towards compliance of the Consent conditions.
13. This consent is issued as per the 9th Consent Appraisal Committee meeting dated 10.10.2024.

14. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
15. Industry shall submit bank guarantee of Rs. 25 lakhs towards O & M of pollution control systems and compliance of consent conditions.
16. The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise. In no case, sewage shall find its way for gardening / outside factory premises.
17. The industry shall create an Environment Cell by appointing an Environmental Engineer / Expert for looking after day-to-day activities related to Environment / Pollution control.

This consent is issued on the basis of information/documents submitted by the Applicant/Project Proponent, if it has been observed that the information submitted by the Applicant/Project Proponent is false, misleading or fraudulent, the Board reserves its right to revoke the consent & further legal action will be initiated against the Applicant/Project Proponent.



**Received Consent fee of -**

<b>Sr.No</b>	<b>Amount(Rs.)</b>	<b>Transaction/DR.No.</b>	<b>Date</b>	<b>Transaction Type</b>
1	2390020.00	TXN2407004717	30/07/2024	Online Payment
2	50000.00	TXN2408000849	10/08/2024	Online Payment

**Industry has paid Rs 2440020 /-. Fees of 1 term i.e 796660/- , additional fees of Rs 50000/- towards increase in CI and BG penalty of Rs 530959 is deducted from Rs 2440020/-. Now Rs 1062401 /- is balance with Board.**

**Copy to:**

1. Regional Officer, MPCB, Aurangabad and Sub-Regional Officer, MPCB, Latur
  - They are directed to ensure the compliance of the consent conditions.
  - SRO shall initiate separate legal action for exceeding JVS results of ETP outlet and stack
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC desk - for record & website updation.

## **SCHEDULE-I**

### **Terms & conditions for compliance of Water Pollution Control:**

- 1) **A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity of 786 CMD consisting of Primary, Secondary, Tertiary for treatment of 660 CMD industrial effluent.**
- B] Industry has provide CPU for recycle/reuse of treated effluent.**
- C] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.**

<b>Sr. No.</b>	<b>Parameters</b>	<b>Limiting concentration not to exceed in mg/l, except for pH</b>
(1)	pH	5.5-9.0
(2)	Oil & Grease	10
(3)	BOD (3 days 27 <sup>o</sup> C)	100
(4)	Sulphate	1000
(5)	Suspended Solids	100
(6)	COD	250
(7)	Chloride	600
(8)	Total Dissolved Solids	2100

- D] The treated effluent 560.00 CMD shall be disposed on land for irrigation on 75.00 hectares of own land /as per the bilateral agreement with farmers. In no any case treated/untreated effluent shall find its way outside the factory premises directly or indirectly.**
- E] Industry shall operate Online Continuous Emission Monitoring System (OCEMS) and shall transmit Online Continuous Emission Monitoring System (OCEMS) data to Board's server directly through the data logger without any intermediate server.**
- F] Trade effluent of 100.00 CMD generated from Co-gen shall be 100% recycle in process.**
- G] CREP conditions for Sugar Factory**
- i. Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS. So as to meet prescribed standards from day one the operation of mill.
  - ii. Waste water generation shall be reduced to 100 liters per tone of cane crushed.
  - iii. Industry shall achieve zero discharge into in land surface water bodies.
  - iv. 15 days' storage capacity tank shall be provided for treated effluent to take care during no demand for irrigation.
- H] Industry to make necessary arrangement to cover the effluent collection system and to avoid the ingress of Bagasse and other material.**



**I] The unit shall operate ETP even after completion of the crushing season so that any effluent generated during washing & maintenance activity is to be discharged after proper treatment.**

**J] The unit shall optimize water use in industrial process & maintain records.**

2) **A] As per your application, you have provided septic tank and soak pit for the treatment of 25 CMD sewage.**

**B] The applicant shall operate sewage treatment system to treat sewage so as to achieve the following standards/ prescribed under EP Act 1986 and rules made under time to time, whichever is stringent.**

1	Suspended Solids	Not to exceed	100 mg/l
2	BOD 3 days (27°C)	Not to exceed	100 mg/l

**C] The treated sewage shall be 100% reused/recycled for gardening purpose within premise. In no any case, sewage shall find its way outside Company's premises.**

3) The industry shall have bilateral agreement with the farmers on whose land the treated effluent is used for irrigation purposes and a copy of the agreements with validity shall be submitted to the Regional/Sub- Regional Office of the Board.

4) The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.

5) **CONDITIONS FOR MOLASSES STORAGE:**

(i) The molasses shall be properly collected and stored in steel tanks which shall be leak proof. At no stage of handling of molasses, there shall be leakage or spillage.

(ii) The capacity of tanks for storage of molasses shall be such that it will take care of bumper production of sugar, non-lifting of molasses etc.

(iii) All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant/ molasses tank. Suitable arrangements for accidental discharges of molasses from the tanks shall be provided to contain the same within factory premises.

(iv) Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board. Intimation of intention to destroy or dispose of the molasses shall be given to the Board at least 15 (fifteen) days in advance by registered post under intimation to the Sub-Regional officer and Regional officer of the Board under whose jurisdiction the factory is situated.

(v) The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tonnes shall be displayed prominently near /on the tank.

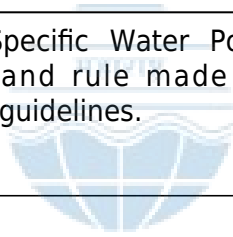
(vi) The above conditions shall be in addition to and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra Molasses Storage and Supply Regulation, 1965".

6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.

- 7) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 8) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 9) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:

<b>Sr. No.</b>	<b>Purpose for water consumed</b>	<b>Water consumption quantity (CMD)</b>
1.	Industrial Cooling, spraying in mine pits or boiler feed	495.00
2.	Domestic purpose	40.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	700.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Landscaping	0

- 10) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.



## SCHEDULE-II

### Terms & conditions for compliance of Air Pollution Control:

- 1) As per your application, you have provided the Air pollution control (APC) system and erected following stack(s) and observe the following fuel pattern-

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO <sub>2</sub>
1	Boiler 135 TPH	ESP	85	Bagasse	1464 MT/Day	0.20	5856.00
2	DG set 1000 KVA	Acoustic Enclosure	6.1	HSD	250 Lit/Day	1.00	120.00
3	DG set 1000 KVA	Acoustic Enclosure	6.1	HSD	250 Lit/Day	1.00	120.00

(As per previous consent of existing unit)

- 2) **The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.**

- 1 The Applicant shall provide ESP/ Bag filter/ Wet scrubber to the Bagasse fired boiler and Dust Collector to Sugar bagging section as an Air Pollution control equipments OR as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
- 2 The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Total Particulate matter	Not to exceed	150 mg/Nm <sup>3</sup>
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- 3 The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
  - 4 The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
  - 5 Industry should not use auxiliary fuel more than 15 % (as per amendment in EIA Notification 2009, power plant upto 15 MW based on Bio-mass and using auxiliary fuel as coal upto 15% are exempt.) as co-gen capacity is below 15 MW.
- 3) **The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.**
- 4) **The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).**



### SCHEDULE-III

#### Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	2500000	15 days/To be extended	Towards O & M of pollution control systems and compliance of consent conditions	31.07.2025	30.01.2026

#### BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						



## SCHEDULE-IV

### **General Conditions:**

- 1 The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 3 Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment, the production process connected to it shall be stopped.
- 4 The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 5 The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 6 The industry should comply with the Hazardous & Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 7 An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 8 The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 9 The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 10 The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 11 The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 12 Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 13 The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW(M&TM) Rules 2016, which can be recycled/processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 14 Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website([www.mpcb.gov.in](http://www.mpcb.gov.in)).

- 15 Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 16 Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
17. Conditions for D.G. Set
  - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
  - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
  - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
  - f) D.G. Set shall be operated only in case of power failure.
  - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
  - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 18 The industry should not cause any nuisance in surrounding area.
- 19 The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 20 The applicant shall maintain good housekeeping.
- 21 The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22 The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23 The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24 The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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**This certificate is digitally & electronically signed.**

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