Your (Environment Clearance) application has been Submitted with following details		
Proposal No	IA/MH/THE/19304/2013	
Compliance ID	89234500	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/89234500/2024	
Reporting Year	2024	
Reporting Period	01 Jun(01 Oct - 31 Mar)	
Submission Date	01-08-2024	
IRO Name	V Geroge Jenner	
IRO Email	tr025@ifs.nic.in	
State	MAHARASHTRA	
IRO Office Address	Integrated Regional Offices, Nagpur	
Note:- SMS and E-Mail has been sent to V Geroge Jenner, MAHARASHTRA with Notification to Project Proponent.		

### **Half Yearly Compliance Report** 2024 01 Jun(01 Oct - 31 Mar)

# Acknowledgment

Proposal Name	Lokmangal Mauli Industries Ltd (30 MW Biomass/Bagasse based Co-generation Plant), located at Lohara (Kh), Tal-Lohara, and Dist-Osmanabad, Maharashtra
Name of Entity / Corporate Office	Parag Patil
Village(s)	Lohara Kh.
District	OCMANADAD

### **District OSMANABAD**

Proposal No.	IA/MH/THE/19304/2013
Plot / Survey / Khasra No.	67,68,69,80
State	MAHARASHTRA
MoEF File No.	J-13012/02/2012-IA.II (T)

Category	Thermal Projects
Sub-District	Lohara
Entity's PAN	AABCL4457C
Entity name as per PAN	LOKMANGAL MAULI INDUSTRIES LIMITED

# **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

# **Details of Production and Project Area**

Name of Entity / **Corporate Office** 

Parag Patil

	Project Area as per EC Granted	Annual Project Area in Possession
Private	50	33
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	50	33

# **Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Power	MW	31/07/2024	30	52817 MW in 2023-24 FY	30

# **Conditions**

Sr.No.	Condition Type	Condition Details	
1	AIR QUALITY MONITORING AND PRESERVATION	To control the particulate emission from the boiler. E 100 mg/ Nm3 shall be installed.	ESP meeting
		oiler emissions, with a designed emission limit of less than	Date: 01/08/2024
2	Corporate Environmental Responsibility	CSR schemes should address Public Hearing issues a undertaken based on need assessment in and around th within 5 km of the site and in constant consultation with Panchayat and the District Administration. As part of Cemployment of local youth after imparting relevant trabe necessary. Shall be undertaken as committed.	e villages th the village CSR
PPs St Agreed	ubmission: Complied		Date: 01/08/2024
3	Corporate Environmental Responsibility	It shall be ensured that an in-built monitoring mechan CRS schemes identified is in place and annual social a got done from the nearest Government institute of repuregion. The project proponent. Shall also submit the staimplementation of the scheme from time to time beside programs along with budgetary allocation on company	udit shall be ate in the atus of es putting the
PPs St Agreed	ubmission: Complied		Date: 01/08/2024
4	GREENBELT	Green Belt consisting of 3 tiers of plan actions of nat around the plant boundary comprising of at least 33 pe total land for both sugar plant and proposed thermal pobe raised. The density of trees shall not be less than 25 rate of survival at least 80 percentage.	rcentage of ower plant sha
A green comprise	es three tiers of native species, ach s monitoring ensures a survival rate	of the total plant area has been established. This green belt ieving a tree density exceeding 2500 per hectare. e surpassing 80 percentage, fulfilling the green belt	Date: 01/08/2024
5	MISCELLANEOUS	An Environment Cell shall be created at the project s shall be headed by an officer of appropriate superiority qualification. It shall be ensured that the Head of the C directly report to the Head of the organization.	and
		head of the cell is directly report to the Head of the	Date: 01/08/2024
6	MISCELLANEOUS	The project proponent shall undertake rain water harmeasures and shall develop water storage for use in opplant. Rain water harvesting system shall be put in place comprise of rain water collection from the built up and the plant premises. Action Plan for implementation shall be provided by the plant premises and the plant premises.	eration of the ce which shal open area in

factory paved cubic 1	areas, and open spaces, totaling 34,84	ting system that collects rainwater from rooftops, 6 sq. m. The collected rainwater is stored in a 9000 er recharge, aligning with regulatory requirements	Date: 01/08/2024
7	MISCELLANEOUS	COC of 4.0 shall be adopted.	
	Submission: Complied ve adopted COC of 4.0 for our TG co	oling towers	Date: 01/08/2024
8	WASTE MANAGEMENT	Waste water generated from the plant shall be trea discharge to comply limits prescribed by the SPCS.	ted before
We ha	Submission: Complied ve installed primary treatment plant found recycled for ash quenching, sugar	or generated effluent in Co-generation unit and its DM process and spray on roads.	Date: 01/08/2024
9	WASTE MANAGEMENT	Fly ash generated shall be provided to farmers to be or disposed of as per Fly Ash Utilization Notification amended subsequently.	
	<b>Submission:</b> Complied d, we are provided the fly ash to Brick	ks manufacturer and farmers	Date: 01/08/2024
10	Corporate Environmental Responsibility	A minimum amount of 0.4 percentage of the projetime capital cost shall be earmarked for activities to CSR during construction phase of the Project. Recufor CSR thereafter shall be 1/5th of the capital cost per CSR guidelines of Govt. of India, whichever is a of the plant.	be taken up und rring expenditur per annum or as
We ha	<b>Submission:</b> Complied ve done approx 1.6 Cr works through harvesting ,tree plantation ,drinking w	CSR in nearby areas of plant and Villages in sector of atter availability etc	Date: 01/08/2024
11	AIR QUALITY MONITORING AND PRESERVATION	Bag filters shall be provided for control of fugitive the ash handling areas.	e emissions from
	Submission: Complied ovide bag filter for control of fugitive	emissions from the ash handling areas.	Date: 01/08/2024
12	AIR QUALITY MONITORING AND PRESERVATION	A stack of 76 m height shall be installed.	·
	Submission: Complied	to more take care of boiler stack emission.	Date: 01/08/2024

# **General Conditions**

Sr.No.	Condition Type	Condition Details
1	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. Date: PPs Submission: Complied 01/08/2024 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. 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 Corporate Environmental 2 undertaken. Development of fodder farm, fruit bearing orchards, Responsibility 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. Date: PPs Submission: Complied 01/08/2024 Agreed 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 landuage of the locality concerned within seven days from the date of this clearance letter, informing 3 **MISCELLANEOUS** 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 http://envfor.nic.in. **PPs Submission:** Complied Date: In accordance with the environmental clearance letter, Lokmangal Mauli Ind Ltd has published 01/08/2024 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. 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 AIR QUALITY periodically. It shall simultaneously be sent to the Regional Office of MONITORING AND MOEF, the respective Zonal Office of CPCB and the SPCB. The **PRESERVATION** criteria pollutant levels namely; SPM, RSPM (PM2.5. and. PM10), S02. 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. **PPs Submission:** Complied Date: We are regularly uploads the status of environmental clearance compliance, including monitoring 01/08/2024 data, on our company website, also we have displayed our environmental pollution parameters on company main gate at a prominent location for public access. 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 5 Statutory compliance 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.

Lokma Mahara (Protec	ashtra State Pollution Control Board (	ong with the project's environmental clearance	Date: 01/08/2024
5	MISCELLANEOUS	Separate funds shall be allocating for implementation environmental protection measures along with item-with These Cost shall be included as part of the project cost earmarked for the environment protection measures still diverted for other purposes and year-wise expenditure reported to the Ministry.	vise break-up. st. The funds hall not be
We have of the p		onment protection measures and Cost is included as part the environment protection measures are not be diverted	Date: 01/08/2024
7	MISCELLANEOUS	No water bodies (including natural drainage system shall be disturbed due to activities associated with the operation of the power plant.	
The pr	Submission: Complied oject has maintained the integrity of a y. No disturbances have occurred due	ll water bodies and natural drainage systems within the to plant setup or operations.	Date: 01/08/2024
3	WATER QUALITY MONITORING AND PRESERVATION	Monitoring surface water quality and quantity in the be regularly conducted and records maintained. The reshall be submitted to the Ministry regularly. Further, a points shall be located between the plant and drainage of flow of ground water arid records maintained.	nonitored data monitoring
We did	Submission: Complied I monitoring of surface water and grounted laboratories.	und water quality in the nearby area from NABL	Date: 01/08/2024
)	WASTE MANAGEMENT	Wastewater generated from the plant shall be treated discharge to comply limits prescribed by the SPCB/C	
We hav plant a	nd recycled for ash quenching, sugar	or generated effluent in Co-generation unit and its DM process and spray on roads. Also we have installed well ent generated from sugar manufacturing plant.	Date: 01/08/2024
10	WASTE MANAGEMENT	The treated effluents conforming to the prescribed s shall be re-circulated and reused within the plant. Arr be made that effluents and storm water do not get mix	angements shal
The Co		d reuses treated effluents that meet prescribed standards. he mixing of effluents and stormwater.	Date: 01/08/2024
11	WASTE MANAGEMENT	A sewage treatment plant shall be provided (as appl treated sewage shall be used for raising greenbelt / pla Continuous monitoring of effluent discharge shall be it shall be ensured that when discharge enters the nature	antation. undertaken and

### Date: **PPs Submission:** Complied 01/08/2024 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. A well-designed rainwater harvesting system shall be put in place which shall comprise of rainwater collection from the built up and 12 **MISCELLANEOUS** open area in the plant premises. Action plan for implementation shall be submitted to the Regional Office of the Ministry within six months. **PPs Submission:** Complied Date: factory has implemented a rainwater harvesting system that collects rainwater from rooftops, paved 01/08/2024 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. 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. 13 Noise Monitoring & Prevention 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. PPs Submission: Complied Date: Noise levels from turbines are maintained below 85 dB(A) in the work zone. All employees in high-01/08/2024 noise areas use earplugs or ear muffs. Regular audiometric tests are conducted for workers in noisy areas like turbine areas. Regular monitoring of ambient air ground level concentration of SO2, Nox. PM2.5 and PM10 and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are AIR QUALITY found to exceed the prescribed limits, necessary control measures 14 MONITORING AND shall be provided immediately. The location of the monitoring **PRESERVATION** 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. Date: PPs Submission: Complied 01/08/2024 Regular monitoring of SO2, NOx, PM2.5, PM10, and Hg levels is conducted in the impact zone by NABL accredited laboratories. First Aid and sanitation arrangements shall be made for the drivers 15 **Human Health Environment** and other contract workers during construction phase. Date: **PPs Submission:** Complied 01/08/2024 We had provided First Aid and sanitation arrangements provided to the drivers and other contract workers during construction phase.

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.

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PPs S	Submission: Complied		Date: 01/08/2024
17	MISCELLANEOUS	Regional Office of the Ministry of Environment and monitor the implementation of the stipulated condition set of documents including Environmental Impact Ass and Environment Management Plan along with the ad information submitted from time to time shall be forw Regional Office for their use during monitoring. Proje will up-load the compliance status in their website and same from time to time at least six monthly bases. Cri levels including NOx (from stack and ambient air) sha at the main gate of the power plant.	ns. A complete sessment Repo ditional rarded to the ect proponent d up-date the teria pollutants
PPs S	Submission: Complied		Date: 01/08/2024
18	MISCELLANEOUS	The project authorities shall inform the Regional, On the Ministry regarding the date of financial closure an of the project by the concerned authorities and the dat land development work and commissioning of plant.	d final approva
PPs !	Submission: Complied		Date: 01/08/2024
19	MISCELLANEOUS	Full cooperation shall be extended to the Scientists / the Ministry / Regional Office of the Ministry / CPCB would monitor the compliance of environmental statu	S/SPCB who
PPs !	Submission: Complied		Date: 01/08/2024
20	MISCELLANEOUS	Provision shall be made for the housing of construct applicable) within the site with all necessary infrastruction facilities such as fuel for cooking, mobile toilets, mobile drinking water, medical health care, creche etc. The hin the form of temporary structures to be removed after completion of the project.	cture and ile STP, safe ousing may be
We had		abour within the site with all necessary infrastructure and oilets, mobile STP, safe drinking water, medical health od.	Date: 01/08/2024
21	Corporate Environmental Responsibility	The project proponent shall also adequately contributed development or the neighboring villages. Special packing implementation schedule for providing potable drinking in the nearby villages and schools shall be undertaken manner.	tage with ng water suppl
	Submission: Complied we done this work in under of CSR a	ctivities	Date: 01/08/2024
22	GREENBELT	Green Belt consisting of 3 tiers of plantations of nat around the plant and at least 50 m width all around she except in places not feasible which shall be clearly spe justification submitted. The vegetation density of trees	all be develope ecified and

		less than 2500 per Ha and rate of survival at least 75percentage	ŗe.
A gree compri Rigoro	ises three tiers of native species, achie	f the total plant area has been established. This green belt eving a tree density exceeding 2500 per hectare.  Surpassing 80 percentage, fulfilling the green belt	te: 8/2024
23	LAND RECLAMATION	Additional soil for leveling of the sites should be generated the site in a way that natural drainage system of the area is pround improved.	
The red		red exclusively from within the site boundaries. The oliver protect but enhance the natural drainage system of the	te: 8/2024
24	Risk Mitigation and Disaster Management	Storage facilities for auxiliary liquid fuel such as LDO/ HFO shall be made in the plant area in consultation with Department Explosives, Nagpur. Sulphur content in the liquid fuel will no 0.5 percentage Disaster Management Plan shall be prepared to any eventuality in case of an accident taking place due to storagil.	nt of t excee o meet
PPs !	Submission: Complied	Da 01/08	te: 8/2024
25	MISCELLANEOUS	An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and scientist, shall be created preferably at the project site itself ar be headed by an officer of appropriate superiority and qualific shall be ensured that the Head of the Cell shall directly report head of the organization who would be accountable for implementation of environmental regulations and social imparimprovement/mitigation measures.	rid shal cation I to the
We hav	Submission: Complied ve created the Environment Cell and h	head of the cell is directly report to the Head of the 01/08	ta:
organiz	zation.		8/2024
	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proponent concern Panchayat, Zila Parisad / Municipal Corporation, urb Body and the Local NGO, if any, from whom suggestions/representations, if any. Received while processing proposal. The clearance letter shall also be put on the website Company by the proponent.	8/2024 to an loca
26 PPs :		A copy of the clearance letter shall be sent by the proponent concern Panchayat, Zila Parisad / Municipal Corporation, urb Body and the Local NGO, if any, from whom suggestions/representations, if any. Received while processing proposal. The clearance letter shall also be put on the website Company by the proponent.  Day 01/08	to an loca g the of the
26 PPs :	MISCELLANEOUS  Submission: Complied	A copy of the clearance letter shall be sent by the proponent concern Panchayat, Zila Parisad / Municipal Corporation, urb Body and the Local NGO, if any, from whom suggestions/representations, if any. Received while processing proposal. The clearance letter shall also be put on the website Company by the proponent.  Day 01/08	to an loca g the of the
PPs S	MISCELLANEOUS  Submission: Complied	A copy of the clearance letter shall be sent by the proponent concern Panchayat, Zila Parisad / Municipal Corporation, urb Body and the Local NGO, if any, from whom suggestions/representations, if any. Received while processing proposal. The clearance letter shall also be put on the website Company by the proponent.  Day 01/08	to an loca g the of the te:

compliance of the project. This is strictly for the project proponent's reference purpose.
······································

Your (Environment Clearance) application	has been Submitted with following details
Proposal No	SEAC-2013/C.R.538/TC-II
Compliance ID	88592433
Compliance Number(For Tracking)	EC/M/COMPLIANCE/88592433/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	31-07-2024
IRO Name	V Geroge Jenner
IRO Email	tr025@ifs.nic.in
State	MAHARASHTRA
IRO Office Address	Integrated Regional Offices, Nagpur
Note:- SMS and E-Mail has been sent to V Geroge Jenner, MA	AHARASHTRA with Notification to Project Proponent.

### Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

# Acknowledgment

Proposal Name	Lokmangal Mauli Industries Ltd (6000 TCD Sugar Plant), located at Lohara (Kh), Tal-Lohara, and Dist-Osmanabad, Maharashtra.
Name of Entity / Corporate Office	Parag Patil
Village(s)	Lohara Kh.
District	SOLAPUR

Proposal No.	SEAC- 2013/C.R.538/TC-II
Plot / Survey / Khasra No.	67,68,69,80
State	MAHARASHTRA
MoEF File No.	SEAC- 2013/C.R.538/TC-II

Category	Industrial Projects - 2
Sub-District	Lohara
Entity's PAN	AABCL4457C
Entity name as per PAN	LOKMANGAL MAULI INDUSTRIES LIMITED

# **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

# **Details of Production and Project Area**

Name of Entity / Corporate Office

Parag Patil

	Project Area as per EC Granted	Annual Project Area in Possession
Private	50	33
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	50	33

# **Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Sugar	Others:MT per Month	31/07/2024	21600	37400 MT per Annum	21600
2	Bagasse	Others:MT per Month	31/07/2024	54000	125958 MT per Annum	54000
3	Press Mud	Others:MT per Month	31/07/2024	7200	9963 MT per Annum	7200
4	Molasses	Others:MT per Month	31/07/2024	7200	23477 MT per Annum	7200

# **Conditions**

## **General Conditions**

Sr.No.	Condition Type	Condition Details	
1	MISCELLANEOUS	No additional land shall be used / accrued for any acc project without obtaining proper permission	ivity of the
	abmission: Complied ional land used for said project		Date: 31/07/2024
2	MISCELLANEOUS	Proper housekeeping program shall be implement.	
	abmission: Complied rehensive housekeeping program is in	place.	Date: 31/07/2024
3	WASTE MANAGEMENT	In the event of failure of pollution control system add unit. The unit shall be immediately put out of operation be restarted until desired efficiency has been achieve.	
PPs Su Agreed	abmission: Complied		Date: 31/07/2024
4	WASTE MANAGEMENT	Arrangement shall made that effluent and storm water mixed	er does not ge
We have	abmission: Complied provided dedicated pipeline/channel ter and effluent remain segregated.	for the generated factory effluent and ensured that	Date: 31/07/2024
5	WATER QUALITY MONITORING AND PRESERVATION	Periodic monitoring of ground water shall be under to analyzed to a certain any change in the quality of water be regularly submitted to MPCB.	
	abmission: Complied practiced conducting periodic monitor	ing of ground water by NABL accredited laboratories.	Date: 31/07/2024
6	Noise Monitoring & Prevention	The overall noise level in and around the plant are sh within standard by providing noise control measure in acoustic hoods silencer in closer on all sources of noise The ambient noise level shall confirm the standard pre-	cluding e generation.

		environment act 1986 rule 1989.	
We hav	Submission: Complied re implemented robust noise control materials ted lab confirms our compliance	neasures. Regular noise monitoring by a NABL	Date: 31/07/2024
7	Risk Mitigation and Disaster Management	Company shall make arrangement for protection of p hazardous during manufacturing process in material ha	
Comproin place		g fire extinguishers, hydrants, and emergency exits are ills and employee training ensure preparedness for nd material handling.	Date: 31/07/2024
8	Risk Mitigation and Disaster Management	Regular mock drill for onsite emergency management carried out implementation of changes / improvement is any in onsite management shall be ensured.	
Mock o	Submission: Complied brills are conducted periodically; Oppose emergency plan.	ortunities for improvement are noted and incorporated	Date: 31/07/2024
9	Statutory compliance	The project management shall advertise at list two lowidely circulated in the region around the project one of bein Marathi language of the local concern within 7 dathis letter informing that the project has been accorded clearance letter are available with MPCB	of which shal ay of issue of
	<b>Submission:</b> Complied published advertise in news paper.		Date: 31/07/2024
10	Statutory compliance	Project management should submit half yearly comprespect of stipulated prior environmental clearance term condition in hard and soft copy in MPCB to this dept. and 1st Dec each calendar year.	n and
Agreed	Submission: Complied , we are submitting Half Yearly report PCB, Latur office.	t to Regional office,MOEFCC, Nagpur and	Date: 31/07/2024
11	MISCELLANEOUS	A copy of clearance letter shall be sent by proponent municipal corporation and local NGO if any from who /representation if anywhere received while processing clearance shall also put on web site of company by pro	m suggestion proposal. The
	Submission: Complied C copy is available on our company we	ebsite.	Date: 31/07/2024
12	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of the air quality including SPM level both in work zone and ambient air shall be carried around the power plant record shall be maintained the monitoring station and frequency of monitoring shall be consultation with MPCB and submitted report according	d out in and location of e decided in
		ncluding SPM and NOx and SO2 by NABL accredited	Date: 31/07/2024
13	Risk Mitigation and Disaster	Necessary arrangement shall be made to adequate sal	fety and

	Management	ventilation arrangement in furnace area.	
	Submission: Complied ary arrangements for adequate safety a	and ventilation in furnace area have been implemented.	Date: 31/07/2024
14	MISCELLANEOUS	A separate environment management cell with qualities set up for implementation of stipulated environment sa	
	Submission: Complied we set up the separate environment ma	nagement cell with qualified staff	Date: 31/07/2024
15	WASTE MANAGEMENT	Transportation of ash will be through closed contained measure should be taken to prevent spillage of the ash.	
Ash is	Submission: Complied transported exclusively in wet condition vehicle inspections and maintenance	on using enclosed vehicles to prevent dust and spillage. ensure environmental compliance.	Date: 31/07/2024
16	WASTE MANAGEMENT	Separate silo will be provided for collecting and stor and fly ash.	ing of bottom
	Submission: Complied we provided separate silo for collecting	g and storing of bottom and fly ash.	Date: 31/07/2024
17	Corporate Environmental Responsibility	Separate fund shall be allocated for implantation of e protection, measure allow with breakup item wise. The included as part of project cost the funds unmarked for protection measure shall not be diverted to other purpowise expenditure should be reported to MPCB and this	e cost shall be environment see and year
Agreed mainte	nance of the Water, Air pollution, tree ation of fully equipped ETP, Online materials	(Recurring cost) are allotted for operation and plantation etc. Also we have spent approx 4 Cr. For onitoring system, ESP for controlling water and air	Date: 31/07/2024
18	Risk Mitigation and Disaster Management	Adequate safety measure shall be provided to limit the within plant boundary in case of an accident. Leak detection shall also be installed at strategic places for early detection.	ection device
Comprare in p		nergency response protocols and containment systems ecidents. provided emergency exists, assembly area, fire	Date: 31/07/2024
19	Human Health Environment	For controlling fugitive natural dust regular sprinkling wind shield at appropriate distance in vulnerable area a shall be insured.	
	Submission: Complied is being practiced.		Date: 31/07/2024
Yes. It			
Yes. It 20	MISCELLANEOUS	PP has to abide by the conditions stipulated by SEAG	C and SEIAA

21	AIR QUALITY MONITORING AND PRESERVATION	A stack of adequate height based on DG set capacity provided for control and dispersion of pollution of DG	
	Submission: Complied of adequate height (6 meters above fac	tory roof level) have been installed for our both DG	Date: 31/07/2024
22	Noise Monitoring & Prevention	Leq of noise level shall be maintained as per standard working in high noise level area requisite personal pro equipment air plug should be provided.	
We adl	vees in high-noise areas. Plant noise lev	provide earplugs as personal protective equipment to rels are regularly monitored by a NABL-accredited	Date: 31/07/2024
23	GREENBELT	Green belt shall develop and maintained around the particle of Green belt development shall be carried out considering guideline including selection of plant species in consultational DFO/Agriculture dept.	g CPCB
	Submission: Complied we developed the green belt within the f	factory and outside the factory fencing.	Date: 31/07/2024
24	Human Health Environment	Occupational health surveillance of the worker shall regular basis and record shall be maintain as per factor	
Regula	Submission: Complied roccupational health surveillance of al ined as per the Factories Act.	l workers is conducted. Comprehensive records are	Date: 31/07/2024
25	WASTE MANAGEMENT	The project authorities must strictly comply with rule regulation with regard to handing disposal of hazardou accordance with hazardous waste authorization from Nobtained for collection /treatment / storage / disposal owaste.	s waste in IPCB shall be
Hazard strictly		ne plant boiler as authorized by MPCB. We adhere including annual returns submission. Proper handling, o prevent environmental pollution.	Date: 31/07/2024
26	MISCELLANEOUS	The company shall undertake following waste minim measures, 1. Metering of quantity of active ingredients waste. 2. Reuse of by product from the process as a ray substitutes in other process. 3. Maximizing recoveries. automated material transfer system to minimize spillage.	to minimize w material 4. Use of
We have are use recover	d for raw material for another process/j	In process of sugar manufacturing all the by- products product. Company always working for maximizing the chineries operate on semi automation, which is	Date: 31/07/2024
27	AIR QUALITY MONITORING AND PRESERVATION	The proponent shall upload status of compliance of s condition including result of monitored data on their w update the same periodically. It shall simultaneously b regional office MoEF the respective zonal office of CF	eb site shall e sent to the

PPs S	Submission: Complied		Date: 31/07/2024
28	AIR QUALITY MONITORING AND PRESERVATION	Six monthly monitoring report should be submitted to office MoEF with copy to this department and MPCB.	o the regional
We hav	Submission: Complied ve submitted six monthly monitor arly environmental compliance re	ing report to regional office MOEFFCC and MPCB with our eport.	Date: 31/07/2024
	MISCELLANEOUS	A complete set of all the documents submitted to Dep	partment
29	1,112,0222,11,20,02	should be forwarded to the local authority and MPCB.	
	Submission: Complied	should be forwarded to the local authority and MPCB.	Date: 31/07/2024
PPs S	Submission: Complied	The EC is being issued without prejudice to the actio under EP act or any court case pending in court of law mean that project proponent has not violated any Envir in past and whatever decision of the hon'ble court will project proponent. Hence this clearance does not give i the project proponent in the case filed again him.	n initiated and it does nonmental law be binding of
PPs S Agreed	Submission: Complied  MISCELLANEOUS  Submission: Complied	The EC is being issued without prejudice to the actio under EP act or any court case pending in court of law mean that project proponent has not violated any Envir in past and whatever decision of the hon'ble court will project proponent. Hence this clearance does not give i	31/07/2024 n initiated and it does not conmental law be binding of
PPs S Agreed	Submission: Complied  MISCELLANEOUS  Submission: Complied	The EC is being issued without prejudice to the actio under EP act or any court case pending in court of law mean that project proponent has not violated any Envir in past and whatever decision of the hon'ble court will project proponent. Hence this clearance does not give i	n initiated and it does no conmental law be binding of mmunity to
PPs S Agreed  PPs S Agreed	Submission: Complied  MISCELLANEOUS  Submission: Complied	The EC is being issued without prejudice to the actio under EP act or any court case pending in court of law mean that project proponent has not violated any Envir in past and whatever decision of the hon'ble court will project proponent. Hence this clearance does not give it the project proponent in the case filed again him.	n initiated and it does no conmental law be binding of mmunity to

# Lekmangal SUCCESS THROUGH TOTAL DEDICATION

# LOKMANGAL MAULI INDUSTRIES LIMITED

CIN:U15421PN2007PLC130585

Ref.: LMIL/Enviro-Dept/2024-2025/3\0

Date: 23/07/2024

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 (Dec 2023 to May 2024)

Respected Sir,

I am writing to submit the half-yearly post-environment clearance compliance report for the period of December 2023 to May 2024, in accordance with the Environmental Clearance letter vide no SEAC-2013/C.R.538/TC-II dated 11/06/2014 and F. No. J-13012/02/2012-IA.II(T) dated 25/02/2014.

This report pertains to our 6000 TCD sugar and 30 MW Cogeneration 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.

Enclosed herewith, please find all necessary documents and annexures that provide detailed information regarding our compliance activities during the specified reporting period.

Thanking you.

Yours faithfully,

For, Lokmangal Mauli Industries Limited,

Manish Dapurkar, Manager Environment.

Copy to: - SRO, MPCB, Latur



Factory: A/p Lohara(kh)-Khed, Tal. Lohara, Dist. Dharashiv - 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 9001:2008 Certified Sugar Factory FSSC 22000:2010 Certified Sugar Factory

# Annexure - I

**Analysis Report** 





### AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/02/24/056	4 Report No. AA/02/24/0564	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Office Sugar Plant	Date - Sampling	24/02/2024 to 25/02/2024
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: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	27/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	27/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

	Meteorologica	al Data / Env	ironment	tal Conditions		
Average Wind Velocity	Wind Direction	Relative Hum	idity	Temperature	Duration of Survey	
3 km/h	E-W	(Max./Min.): 7	5/41%	(Max./Min.): 31/25°C	24 h	
Parameter	Result	NAAQS# 2009	Unit		ethod	
Chemical Testing; Group:	Atmospheric Pollut	ion				
Sulphur Dioxide (SO <sub>2</sub> )	BLQ (LOQ:4)	80	µg/m³	IS 5/87 (Part 2/Sec I): 2023		
Nitrogen Dioxide (NO2)	7.40	80	μg/m <sup>3</sup>	IS 5182 (Part 6): 2017		
Particulate Matter (size less than 10 µm) or PM10	s 39	100	μg/m³	IS 5182 (Part 23): 2017		
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	s 11	60	µg/m³	CPCB Guideline, Volume 1,36/201	2-13. Page No 15:2013	
Carbon Monoxide (CO)	1.36	4	mg/m³	CPCB Guidelines, Volume II, 37/2	012-13. Page no 16: 2013	

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

TWA: Time Weighted Average

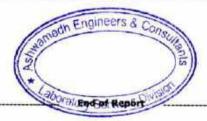
#: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon Monoxide.

Note: Sample ID AA/02/24/0564 bears two Test Reports-AA/02/24/0564 and AA/02/24/0564N

Saanvi Dalal

Section In-charge (Chemical) Reviewed & Authorised by





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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/02/24/056	5 Report No. AA/02/24/0565	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd.  A/P Lohara (Khurd), Tal. Lohara,  Dist. Osmanabad - 413608,  Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Khed Village	Date - Sampling	24/02/2024to 25/02/2024
Sample Quantity / Packing	PM10: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	27/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	27/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

	Meteorologica	al Data / Env	ironment	tal Conditions		
Average Wind Velocity 3 km/h	Wind Direction E-W	Relative Hum (Max./Min.): 7	200000000000000000000000000000000000000	Temperature (Max./Min.): 32/25°C	Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Unit	M	Method	
Chemical Testing; Group:	Atmospheric Pollut	ion				
Sulphur Dioxide (SO <sub>2</sub> )	BLQ (LOQ:4)	80	μg/m³	IS 5I82 (Part 2/Sec I): 2023		
Nitrogen Dioxide (NO <sub>2</sub> )	7.33	80	µg/m³	IS 5/82 (Part 6): 2017		
Particulate Matter (size less than 10 µm) or PM10	63	100	µg/m³	IS 5182 (Part 23): 2017		
Particulate Matter (size less than 2.5µm) or PM2.5	17	60	μg/m³	CPCB Guideline, Volume 1,36/2012	2-13, Page No.15:2013	
Carbon Monoxide (CO)	1.15	4	mg/m³	CPCB Buidelines, Valume II, 37/2	012-13, Page no.16: 2013	

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

TWA: Time Weighted Average

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

Note: Sample ID AA/02/24/0565 bears two Test Reports-AA/02/24/0565 and AA/02/24/0565N

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/02/24/056	6 Report No. AA/02/24/0566	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Lohara Village	Date - Sampling	24/02/2024 to 25/02/2024
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: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	27/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	27/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

	Meteorologic	al Data / Env	ironment	tal Conditions	
Average Wind Velocity 3.2 km/h	Wind Direction E-W	Relative Hum (Max./Min.): 7	2000	Temperature (Max./Min.): 32/25°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method	
Chemical Testing; Group:	Atmospheric Pollut	tion			
Sulphur Dioxide (SO <sub>2</sub> )	4.45	80	µg/m³	IS 5182 (Part 2/Sec I): 2023	
Nitrogen Dioxide (NO <sub>2</sub> )	7.78	80	µg/m³	IS 5/82 (Part 6): 2017	
Particulate Matter (size less than 10 µm) or PM10	52	100	µg/m³	IS 5182 (Part 23): 2017	
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	14	60	µg/m³	CPCB Guideline, Volume 1,36/201	2-13. Page No.15:2013
Carbon Monoxide (CO)	1.48	4	mg/m³	CPC8 Guidelines, Valume II, 37/7	012-13, Page no 16: 2013

TWA: Time Weighted Average

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

Note: Sample ID AA/02/24/0566 bears two Test Reports-AA/02/24/0566 and AA/02/24/0566N

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### ULR-TC550924000003986F

### **TEST REPORT**

Sample ID: W/02/24/0503	Report No. W/02/24/0503	Report Date	04/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	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

r.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chem	ical Testing; Group: Water, F	Residues in Wat	ter		M
Physi	cal & Chemical Parameters	- A			
1	Colour	1	Max. 5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	Agreeable	Agreeable	2	IS 3025 (Part 5):2018
3	pH value (at 25°C)	7.34	6.5-8.5		IS 3025 (Part II) : 2022
4	Turbidity	BLQ (LOQ:0.2)	Max. 1	NTU	IS 3025 (Part IO) : 2023
5	Total Dissolved Solids	492	Max.500	mg/L	IS 3025 (Part 16): 2023
6	Calcium (as Ca)	59.3	Max. 75	mg/L	IS 3025 (Part 48). Method No.5. 1991
7	Chloride (as Cl)	68	Max. 250	mg/L	IS 3025 (Part 32), Method No. 2: 1988
8	Fluoride (as F)	0.8	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	BLQ (LOQ:0.05)	Min. 0.2	mg/L	APHA.24th Ed.4500- Cl.G.357-2023
10	Iron (as Fe)	0.131	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO II885.2007
11	Magnesium (as Mg)	38.8	Max. 30	mg/L	IS 3025 (Part 46); 1994
12	Nitrate (as NO <sub>3</sub> )	4.2	Max.45	mg/L	APHA,24th Ed.,4508-NO3.B. 434-2023
13	Sulphate (as SO <sub>4</sub> )	48	Max. 200	mg/L	IS 3825 (Part 24)/Sec + 2022
14	Total Hardness (as CaCO <sub>3</sub> )	308	Max. 200	mg/L	IS 3025 (Part 2I) Method No.5: 1983
15	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA 24th Ed. 4500- P.E. 486: 2023
16	Silica (as SiO <sub>2</sub> )	5.8	Not specified	mg/L	IS 3025 (Part 35) Method No 4:1988
Biolog	ical Testing; Group: Water				
Bacte	riological Parameters	W			
17	Total Coliforms	Present	Not specified	/100ml	APHA, 24th Ed., 9221-0, 1140, 2023
BLQ:B	elow Limit of Quantification, LO	Q:Limit of Quanti	fication		

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### 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

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### ULR-TC550924000003987F

### **TEST REPORT**

Sample ID: W/02/24/0504	Report No. W/02/24/0504	Report Date	04/03/2024	
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra	•		
Sampling done by	Laboratory	Sample Description / Type	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. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024	

r.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chem	ical Testing; Group: Water, F	Residues in Wat		Mr = =	
Physic	cal & Chemical Parameters				
1	Colour	1	Max. 5	Hazen units	IS 3025 (Part 4), Method No.4: 2021
2	Odour	Agreeable	Agreeable	- 8	IS 3025 (Part 5):2018
3	pH value (at 25°C)	7.01	6.5-8.5		IS 3025 (Part II) : 2022
4	Turbidity	BLQ (LOQ:0.2)	Max. 1	NTU	IS 3025 (Part IO) : 2023
5	Total Dissolved Solids	1172	Max.500	mg/L	IS 3025 (Part IB): 2023
6	Calcium (as Ca)	160	Max. 75	mg/L	IS 3025 (Part 40), Method No.5: 1991
7	Chloride (as CI)	329	Max. 250	mg/L	IS 3025 (Part 32) Method No.2: 1988
8	Fluoride (as F)	1.2	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	BLQ (LOQ:0.05)	Min. 0.2	mg/L	APHA.24th Ed. 4500- DLB.357: 2023
10	Iron (as Fe)	0.079	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISD 11885:2007
11	Magnesium (as Mg)	97.2	Max. 30	mg/L	IS 3025 (Part 48): 1994
12	Nitrate (as NO <sub>3</sub> )	15	Max.45	mg/L	APHA.24th Ed.4500- NO3.B. 434 2023
13	Sulphate (as SO <sub>4</sub> )	324	Max. 200	mg/L	IS 3025 (Part 24)/Sec-I. 2022
14	Total Hardness (as CaCO <sub>3</sub> )	800	Max. 200	mg/L	IS 3025 (Part 21) Method No 5: 1983
15	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA_24th Ed_4500- P.E.486: 2023
16	Silica (as SiO <sub>2</sub> )	8.2	Not specified	mg/L	IS 3025 (Part 35) Method No.4. 1988
Biolog	ical Testing; Group: Water	*			
Bacter	riological Parameters				
17	Total Coliforms	Present	Not specified	/100ml	APHA, 24th Ed., 9221-0, 1140, 2023

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aboratory Services Division

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ULR-TC550924000003987F

Sample ID: W/02/24/0504

Report No. W/02/24/0504

Report Date

04/03/2024

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Quality Manager
Reviewed & Authorised by

in Engineers & Consults

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### ULR-TC550924000003988F

### TEST REPORT

Carling Co.	-l- ID - W/02/24/0505	25411	TEST REPORT	n	nest Date		24/02/2024
	ample ID: W/02/24/0505 Report No. W/02 ame and address of Lokmangal Mauli Indi		-	Transaction and the second sec			04/03/2024
Cust	omer	A/P Lohara (Khurd), T Dist. Osmanabad - 4136	al. Lohara,				
	pling done by	Laboratory		Sar	Sample Description / Type		Surface Water
	pling Location	Makani Dam			te - Sampling		26/02/2024
Sam	ple Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bo		Da	te - Receipt of	Sample	27/02/2024
	pling Procedure	IS 1622:1981 & APHA 2 1060 B, 44, 9060 A,109 B,1097 & ISO 19458:20	4 & 9060 06		te - Start of Ar		27/02/2024
	er Reference	W.O. No. 23-24/1C0000		Da		n of Analysis	02/03/2024
Sr.No		ameter	Result	-17	Unit	RISK W	Method
	sical & Chemical Pa	p: Water, Residues in V	Vater	_			
1	Colour	ameters	1		Hazen	15 3035 /Door A	Method No. 4: 2021
1	5.041		•		units	IN NOZU (FBIT 4)	E MEDIUS NO.4: 2025
2	Odour		Agreeable	-		IS 3025 (Part 5):2018	
3	pH value (at 25°C)		7.14		4	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		1): 1933
6	Chemical Oxygen De	mand	21		mg/L	APHA,24th Ed.52	220.B.544. 2023
7	Total Dissolved Solid	s	632		mg/L	IS 3025 (Part IE	): 2023
8	Calcium (as Ca)		67.3		mg/L	IS 3025 (Part 40	1), Method No.5: 1991
9	Chloride (as Ci)		122		mg/L	IS 3025 (Part 32	2),Method No.2, 1988
10	Fluoride (as F)		1		mg/ <b>L</b>	IS 3025 (Part 60) Method No.5, 2008	
11	Free Residual Chlorin	e	BLQ (LOQ:0.05)		mg/L	APHA 24th Ed., 45	00- CLG,357, 2023
12	Iron (as Fe)		0.119		mg/L	IS 3025 (Part 2)	2019/150 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., 45	00- ND3, B. 434-2023
15	Sulphate (as SO <sub>4</sub> )		123		mg/L	IS 3025 (Part 24	)/Sec-1: 2022
16	Total Alkalinity (as Ca		230		mg/L	IS 3025(Part 23)	1986
17	Total Hardness (as Ca	SOCIAL STATE OF THE STATE OF TH	340		mg/L	IS 3025 (Part 21)	Method No 5: 1983
18	Total Phosphate (as F	")	BLQ (LOQ:0.1)		mg/L	APHA,24th Ed.,45	DO- P.E.486: 2023
19	Silica (as SiO <sub>2</sub> )		11.2		mg/L	IS 3025 (Part 35	) Method No 4: 1388
	ogical Testing; Grou	*C777-7571-7571-7571					
	eriological Paramet	ers			5120010		13-977-1-1-1-1-1
20	Total Coliforms	ication, LOQ:Limit of Qua	Present		/100ml	APHA 24th Ed. 9	221-0, 1140: 2023

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alory Services D

Ulka Belan Quality Manager Reviewed & Authorised by Ninad Soundankar Technical Manager (Chemical) Reviewed & Authorised by







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ULR-TC550924000003988F

Sample ID: W/02/24/0505

Report No. W/02/24/0505

Report Date

04/03/2024

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### TEST REPORT

Sample ID : S/02/24/0359	Report No. S/02/24/0359	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	25/02/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	27/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/02/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr. No.	Parameter	Result	Unit	Method
Cher	mical Testing; Group: Pollution & Envi	ronment		
1	pH (1:5 suspension at 25°C)	7.72		FAO, Sec. III, I, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.212	mmhos/cm	FAO. Sec. III. 5. Page no. 85 1976
3	Moisture Content	6.1	% by Weight	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt of India, Jan 2011
4	Organic Matter	1.41	%	FAD, Sec. III. 3, Page no.73:1976
5	Total Nitrogen (as N)	78.2	mg/kg	FAD, Sec III,4, Page No. 78: 1976
6	Total Potassium (as K)	1186	mg/kg	USEPA/SW 846/7000B
7	Calcium (as Ca)	7142	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	391	mg/kg	USEPA/SW 846/7000B
9	Chloride (as CI)	88.6	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO <sub>4</sub> )	68.4	mg/kg	USEPA/SW 846/9038

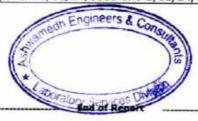
Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/02/24/0359 bears two Test Reports - S/02/24/0359 and S/02/24/0359N

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### TEST REPORT

Sample ID: S/02/24/0359	Report No. S/02/24/0359N	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	25/02/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	27/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/02/2024
Order Reference	30 No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr. No.	Parameter	Result	Unit	Method
Chemical	Testing; Group: Pollution & Env	vironment	50	
1 Ma	gnesium (as Mg)	2.5	mg/kg	AEC/C/SAP/S-IO

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/02/24/0359 bears two Test Reports - S/02/24/0359 and S/02/24/0359N

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### TEST REPORT

Sample ID: S/02/24/0360	Report No. S/02/24/0360	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	25/02/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	27/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/02/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr. No.	Parameter	Result	Unit	Method
Cher	nical Testing; Group: Pollution & Envi	ronment		
1	pH (1:5 suspension at 25°C)	7.6	-	FAO, Sec. III, I, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.213	mmhos/cm	FAO, Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	7.13	% by Weight	Dept. of Agriculture & Coopretion, Ministry of Agriculture, Govt of India, Jan 2011
4	Organic Matter	1.26	%	FAD, Sec. III, 3, Page no. 73: 1976
5	Total Nitrogen (as N)	71.1	mg/kg	FAD, Sec III.4. Page No. 78: 1976
6	Total Potassium (as K)	1278	mg/kg	USEPA/SW 846/70008
7	Calcium (as Ca)	4927	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	616	mg/kg	USEPA/SW 846/70008
9	Chloride (as CI)	123	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO <sub>4</sub> )	96	mg/kg	USEPA/SW 846/9038

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/02/24/0360 bears two Test Reports - S/02/24/0360 and S/02/24/0360N

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### **TEST REPORT**

Sample ID: 5/02/24/0360	Report No. S/02/24/0360N	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	25/02/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	27/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	27/02/2024
Order Reference	30 No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Sr. No.	Parameter	Result	Unit	Method
Chemical To	esting; Group: Pollution & Env	rironment		
1 Magn	esium (as Mg)	1.99	mg/kg	AEC/C/SAP/S-IO

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/02/24/0360 bears two Test Reports - S/02/24/0360 and S/02/24/0360N

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### **TEST REPORT**

Sample ID: E/02/24/0358	Report No. E/02/24/0358	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date -Sampling	26/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	27/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	27/02/2024
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Env	rironment		
1	pH (at 25°C)	7.66		IS 3025 (Part II): 2017
2	Total Suspended Solids	28	mg/L	IS 3025 (Part I7) Amds I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	40	mg/L	APHA,24th Ed.,5220,B,544: 2023
5	Total Dissolved Solids	930	mg/L	IS 3025 (Part I6) 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA.24th Ed.,5520 B,572, 2023
7	Chloride (as CI)	96	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO <sub>4</sub> )	108	mg/L	IS 3025 (Part 24)/Sec-L 2022

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### **TEST REPORT**

Sample ID: E/02/24/0357	Report No. E/02/24/0357	Report Date	02/03/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date -Sampling	26/02/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	27/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	27/02/2024
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

r.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Env	rironment		-
1	pH (at 25°C)	3.34		IS 3025 (Part II): 2017
2	Total Suspended Solids	820	mg/L	IS 3025 (Part I7) Amds J: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	1978	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	5600	mg/L	APHA.24th Ed. 5220.8.544: 2023
5	Total Dissolved Solids	1144	mg/L	IS 3025 (Part I6) : 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed. 5520,8,572, 2023
7	Chloride (as CI)	114	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO <sub>4</sub> )	103	mg/L	IS 3025 (Part 24)/Sec-1: 2022

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### STACK EMISSION MONITORING REPORT

Sample ID: SA/02/24/0567	Report No. SA/02/24/0567	Report No. SA/02/24/0567 Report Date	
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO <sub>2</sub> : 30 ml x 1 no. plastic bottle	Date - Sampling	25/02/2024
	NO2: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	27/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	27/02/2024
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024

Stack Details	
~ Stack Identity	D G Set I - 1010 KVA
~ Stack attached to	D G Set I - 1010 KVA
~ Material of construction	MS
~ Stack height above ground level	6.3 m
~ Stack diameter	0.30 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	40 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmos	pheric Pollution			
Flue Gas Temperature	82	-	°C	IS II255 (Part 3) 2018
Flue Gas Velocity	7.5		m/s	IS II255 (Part 3) : 2018
Flue Gas Flow Rate	1601	-	Nm³/h	IS (1255 (Part 3) 2018
Particulate Matter (PM)	13	150	mg/Nm³	IS 11255 (Part I): 2019
Sulphur Diaxide (SO <sub>2</sub> )	BLQ (LOQ:5)	Not specified	mg/Nm³	IS II255 (Part 2): 2019
Sulphur Dioxide (SO <sub>2</sub> )	oxide (SO <sub>2</sub> )  BLQ Not specified  (LOQ:0.02)	kg/d	IS (1255 (Part 2): 2019	
Oxides of Nitrogen (NO <sub>2</sub> )	15.4	Not specified	mg/Nm³	IS ff255 (Part 7): 2017

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### STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/0568	Report No. S	A/02/24/0568	Report Date	02/03/2024
Name and address of Customer	Lokmangal Maul A/P Lohara (Khu Dist. Osmanabad Maharashtra	urd), Tal. Lohara,	,	
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	25/02/2024
			Date - Receipt of Sample	27/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017		Date - Start of Analysis	27/02/2024
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023		Date - Completion of Analysis	02/03/2024

Stack Details	
~ Stack Identity	D G Set II - 1010 KVA
~ Stack attached to	D G Set II - 1010 KVA
~ Material of construction	MS
~ Stack height above ground level	6.3 m
~ Stack diameter	0.30 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	40 L/h

Result	Limits as per MPCB Consent	Unit	Method		
c Pollution		•	•		
80		°C	IS II255 (Part 3) : 2018		
7	1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991	m/s	IS II255 (Part 3) : 2018		
1486	*	Nm³/h	IS (1255 (Part 3) : 2018		
12	150	mg/Nm³	IS I(255 (Part I): 2019		
8.42	Not specified	mg/Nm³	IS II255 (Part 2): 2019		
0.3	Not specified	kg/d	IS II255 (Part 2): 2019		
17.4	Not specified	mg/Nm³	IS 11255 (Part 7): 2017		
	c Pollution 80 7 1486 12 8.42 0.3	MPCB Consent  c Pollution  80 -  7 -  1486 -  12 150  8.42 Not specified  0.3 Not specified	MPCB Consent   C Pollution   80		

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# STACK EMISSION MONITORING REPORT

Sample ID: SA/02/24/0569	Sample ID : SA/02/24/0569 Report No. SA/02/24/0569		02/03/2024			
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra	P Lohara (Khurd), Tal. Lohara, st. Osmanabad - 413608,				
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	Date - Sampling	25/02/2024			
	DOLL SO THE AT NO. Plastic South	Date - Receipt of Sample	27/02/2024			
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018	Date - Start of Analysis	27/02/2024			
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	02/03/2024			

Stack Details	
~ Stack Identity	Boiler - 135 TPH
~ Stack attached to	Boiler - 135 TPH
~ Material of construction	RCC
~ Stack height above ground level	85 m
~ Stack diameter	3 m
~ Stack shape at top	Round
~ Type of Fuel	Bagasse
~ Fuel Consumption	32 T/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method			
Chemical Testing; Group: Atmosp	neric Pollution						
Flue Gas Temperature	115		°C	IS II255 (Part 3): 2018			
Flue Gas Velocity	6.2		m/s	IS II255 (Part 3) 2018			
Flue Gas Flow Rate	122953		Nm³/h	IS II255 (Part 3) : 2018			
Particulate Matter (PM)	12	150	mg/Nm³	IS (1255 (Part 1): 2019			
Sulphur Dioxide (SO <sub>2</sub> )	BLQ (LOQ:5)	Not specified	mg/Nm³	IS II255 (Part 2): 2019			
Sulphur Dioxide (SO <sub>2</sub> )	BLQ (LOQ:0.02)	Not specified	kg/d	IS II255 (Part 2): 2019			

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/02	Report No. AA/02/24/02	Report Date	07/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Office Sugar Plant	Date - Sampling	30/01/2024 to 31/01/2024
Sample Quantity / Packing	PM10: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each CO, HC: 1 x 1 no. bladder each	Date - Receipt of Sample	01/02/2024
Sampling Procedure	As per method reference	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

	Meteorologic	al Data / Env	ironment	al Conditions		
Average Wind Velocity 3 km/h	Wind Direction E-W	Relative Hum (Max./Min.): 7	3.50 B 7 B 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	Temperature (Max./Min.): 30/25°C	Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Unit	Method		
Chemical Testing; Group:	Atmospheric Pollut	tion				
Sulphur Dioxide (SO <sub>2</sub> )	4.77	80	µg/m³	IS 5(82 (Part 2/Sec I): 2023		
Nitrogen Dioxide (NO <sub>2</sub> )	10.7	80	µg/m³	IS 5182 (Part 6): 2017		
Particulate Matter (size less than 10 µm) or PM10	47	100	µg/m³	IS 5182 (Part 23): 2017		
Particulate Matter (size less than 2.5µm) or PM2.5	13	60	µg/m³	CPEB Guideline, Volume 1,36/201	2-13. Page No.15:2013	
Carbon Monoxide (CO)	1.49	4	mg/m³	CPCB Guidelines, Volume II, 37/2	CPC8 Suidelines, Volume II, 37/20/2-13, Page no IS: 20/3	

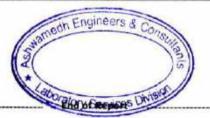
TWA: Time Weighted Average

#: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon Monoxide. Note: Sample ID AA/02/24/02 bears two Test Reports-AA/02/24/02 and AA/02/24/02N

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/03	Report No. AA/02/24/03	Report Date	07/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Lohara Village	Date - Sampling	30/01/2024tc 31/01/2024
Sample Quantity / Packing	PM10: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each CO, HC: 1 x 1 no. bladder each	Date - Receipt of Sample	01/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	01/02/2024
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	06/02/2024

	Meteorologic	al Data / Env	ironment	tal Conditions	
Average Wind Velocity 3 km/h	Wind Direction E-W	Relative Hum (Max./Min.): 7		Temperature (Max./Min.): 30/24°C	Duration of Survey
Parameter	Result				
Chemical Testing; Group:	Atmospheric Pollut	ion			
Sulphur Dioxide (SO2)	4.88	80	μg/m³	IS 5(82 (Part 2/Sec 1); 2023	
Nitrogen Dioxide (NO2)	10.8	80	µg/m³	IS 5182 (Part 6): 2017	
Particulate Matter (size less than 10 µm) or PM10	44	100	µg/m³	IS 5(82 (Part 23): 20(7	
Particulate Matter (size less than 2.5µm) or PM2.5	15	60	μg/m³	CPC8 Guideline, Volume 1.36/2012-13, Page No.15.2013	
Carbon Monoxide (CO)	1.50	4	mg/m³	CPC8 Guidelines, Volume II, 37/2012-13, Page no 15: 2013	

TWA: Time Weighted Average

#: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon Monoxide. Note: Sample ID AA/02/24/03 bears two Test Reports-AA/02/24/03 and AA/02/24/03N

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/04	Report No. AA/02/24/04	Report Date	07/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Khed Village	Date - Sampling	30/01/2024to 31/01/2024
Sample Quantity / Packing	PM10: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each CO, HC: 1 x 1 no. bladder each	Date - Receipt of Sample	01/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	01/02/2024
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	06/02/2024

	Meteorologic	al Data / Env	rironment	tal Conditions	
Average Wind Velocity	Wind Direction	Relative Hum	nidity	Temperature	Duration of Survey
3.2 km/h	E-W	(Max./Min.): 7	5/41%	(Max./Min.): 32/25°C	24 h
Parameter	Result	NAAQS# 2009	Unit	Method	
Chemical Testing; Group:	Atmospheric Pollut	tion			
Sulphur Dioxide (SO <sub>2</sub> )	5.04	80	µg/m³	IS 5/82 (Part 2/Sec I): 2023	
Nitrogen Dioxide (NO <sub>2</sub> )	12.0	80	µg/m³	IS 5/82 (Part 6): 20/7	
Particulate Matter (size less than 10 µm) or PM10	43	100	µg/m³	IS 5182 (Part 23): 2017	
Particulate Matter (size less than 2.5µm) or PM2.5	12	60	µg/m³	CPCB Guideline, Volume 1.36/200	7-13, Page No.15:2013
Carbon Monoxide (CO)	0.84	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no. IS, 2013	

TWA: Time Weighted Average

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

Note: Sample ID AA/02/24/04 bears two Test Reports-AA/02/24/04 and AA/02/24/04N

580-7

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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	Lokmangal Mauli Industries Ltd. 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 24th 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. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	06/02/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chem	ical Testing; Group: Water, I	Residues in Wat			MI-
Physi	cal & Chemical Parameters				
1	Colour	1	Max.5	Hazen units	IS 3025 (Part 4) Method No.4: 2021
2	Odour	Agreeable	Agreeable	-	IS 3025 (Part 5) 2018
3	pH value (at 25°C)	7	6.5-8.5		(S 3025 (Part II) 1983
4	Turbidity	0.23	Max.1	NTU	(S 3025 (Part IO) - 2023
5	Total Dissolved Solids	738	Max.500	mg/L	IS 3025 (Part 16): 2023
6	Calcium (as Ca)	57.7	Max. 75	mg/L	IS 3025 (Part 40), Method No 5: 1991
7	Chloride (as CI)	152	Max.250	mg/L	IS 3025 (Part 32), Method No 2 1988
8	Fluoride (as F)	1.1	Max.1.0	mg/L	IS 3025 (Part 60) Method No.5: 2008
9	Free Residual Chlorine	BLQ (LOQ:0.05)	Min. 0.2	mg/L	APHA 24th Ed. 4500- Cl G.357, 2023
10	Iron (as Fe)	0.246	Max.1	mg/L	IS 3025 (Part 2):2019/ISB (IBBS 2007
11	Magnesium (as Mg)	36	Max. 30	mg/L	IS 3025 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	3.03	Max.45	mg/L	APHA,24th Ed.,4500-N03.B. 434: 2023
13	Sulphate (as SO <sub>4</sub> )	252	Max.200	mg/L	IS 3025 (Part 24)/Sec-I: 2022
14	Total Alkalinity (as CaCO <sub>3</sub> )	120	Max.200	mg/L	IS 3025(Part 23) 1986
15	Total Hardness (as CaCO <sub>3</sub> )	292	Max.200	mg/L	IS 3025 (Part 21) Method No.5, 1983
16	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA.24th Ed. 4500- P.E.486: 2023
17	Silica (as SiO <sub>2</sub> )	8	Not specified	mg/L	IS 3025 (Part 35) Method No.4: 1988
	ical Testing; Group: Water				
Bacter	riological Parameters				
18	Total Coliforms	Absent	Not specified	/100 ml	APHA, 24th Ed., 9221-D, 1840-2823
LQ:Be	low Limit of Quantification, LOC	Limit of Quantif	ication.		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

Akshata Pagare Senior Analyst (Biological) Reviewed & Authorised by End of Report

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Technical Manager (Chemical)
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ULR-TC550924000002476F

Sample ID: W/02/24/04

Report No. W/02/24/04

Report Date

06/02/2024

Akshata Pagare

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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	Lokmangal Mauli Industries Ltd. 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. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	05/02/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chem	ical Testing; Group: Water, I	Residues in Wat			
Physic	cal & Chemical Parameters				
1	Colour	1	Max.5	Hazen units	IS 3025 (Part 4) Method No. 4: 2021
2	Odour	Agreeable	Agreeable	-	IS 3025 (Part 5) 2018
3	pH value (at 25°C)	7.31	6.5-8.5	-	IS 3025 (Part II): 1983
4	Turbidity	BLQ (LOQ:0.2)	Max.1	NTU	IS 3025 (Part IO) 2023
5	Total Dissolved Solids	1164	Max.500	mg/L	S 3025 (Part IS) 2023
6	Calcium (as Ca)	84.2	Max. 75	mg/L	IS 3025 (Part 40), Method No 5, 1991
7	Chloride (as CI)	300	Max.250	mg/L	IS 3025 (Part 32), Method No 2 1988
8	Fluoride (as F)	1.8	Max.1.0	mg/L	IS 3025 (Part 60) Method No 5: 2008
9	Free Residual Chlorine	BLQ (LOQ:0.05)	Min. 0.2	mg/L	APHA 24th Ed.,4500- CLG:357-2023
10	Iron (as Fe)	1.97	Max.1	mg/L	IS 3025 (Part 2) 7019/ISB 11885-2007
11	Magnesium (as Mg)	53.5	Max. 30	mg/L	IS 3025 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	4.16	Max.45	mg/L	APHA 24th Ed. 4500-N03,8, 434-2023
13	Sulphate (as SO <sub>4</sub> )	34.3	Max.200	mg/L	S 3025 (Part 24)/Sec1 2022
14	Total Alkalinity (as CaCO <sub>3</sub> )	175	Max.200	mg/L	IS 3025(Part 23) (986
15	Total Hardness (as CaCO <sub>3</sub> )	430	Max.200	mg/L	IS 3025 (Part 21) Method No. 5, 1983
16	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA 24th Ed. 4500- P.E. 486; 2023
17	Silica (as SiO <sub>2</sub> )	13	Not specified	mg/L	IS 3025 (Part 35) Method No. 4, 1988
_	ical Testing; Group: Water			110	A STATE OF THE STA
Bacter	riological Parameters				
18	Total Coliforms	Absent	Not specified	/100 ml	APHA, 74th Ed., 9221-0, 1140: 2023
3LQ:Be	elow Limit of Quantification, LOC	2:Limit of Quantif	fication.	-	

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End of Report

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ULR-TC550924000002477F

Sample ID: W/02/24/05

Report No. W/02/24/05

Report Date

06/02/2024

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## ULR-TC550924000002478F

## TEST REPORT

	le ID : W/02/24/06	Report No. W/02/	24/06	Re	port Date		06/02/2024
_	and address of	Lokmangal Mauli Indu A/P Lohara (Khurd), To Dist. Osmanabad - 4136	stries Ltd. al. Lohara,	N.			
Samp	ling done by	Laboratory	Sample		nple Description / Type		Surface Water
Sampling Location Makhi Dam		Makhi Dam		Da	te - Sampling		31/01/2024
Samp	le Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile bo	ttle	Da	te - Receipt of S	Sample	01/02/2024
Samp	ling Procedure	IS 1622:1981 & APHA 24 1060 B, 44, 9060 A,1094 ISO 19458:2006			te - Start of Ana		01/02/2024
	Reference	J.O. No. 23-24/1C00003	5 dated 02.12.2023	Date - Completion		of Analysis	05/02/2024
Sr.No.				Unit		Method	
		p: Water, Residues in W	ater				
10	ical & Chemical Pa	rameters	1		Hazen units	18 30.95 (Best 4)	1. Method No 4, 2021
2	Odour		Agreeable		- HOZEII UIIICS	13 3025 (Part 5)	
3	pH value (at 25°C)		7.84	_		IS 3025 (Part II)	The state of the s
4	Turbidity		0.28	_	NTU	IS 3025 (Part 10	
5	( International Control of the Contr	Demand (3 days, 27°C)	4	_	mg/L	IS 3025 (Part 4	7-1-S-15-15
6	Chemical Oxygen De	The solution of the second sec	15		mg/L	Line State Office State Of	220 B 544 2023
7	Total Dissolved Solid	200000	610		mg/L	IS 3025 (Part IS	0120700
8	Calcium (as Ca)		54.5		mg/L	IS 3025 (Part 4)	3). Method No 5 1991
9	Chloride (as CI)		124		mg/L	IS 3025 (Part 3)	2), Method No 2, 1988
10	Fluoride (as F)		1.0		mg/L	IS 3025 (Part 6)	0) Method No 5: 2008
11	Free Residual Chlorin	ne	BLQ (LOQ:0.05)		mg/L	APHA_24th Ed_45	500- CLG 357 2023
12	Iron (as Fe)		0.122		mg/L	IS 3025 (Part 2)	2019/150 11885 2007
13	Magnesium (as Mg)		32		mg/L	IS 3025 (Part 46	3): 1994
14	Nitrate (as NO <sub>3</sub> )		4.55		mg/L	APHA, 24th Ed. 45	600- NO3,8, 434, 2023
15	Sulphate (as SO <sub>4</sub> )		134		mg/L	IS 3025 (Part 24	i)/Sec-1, 2022
15	Total Alkalinity (as C	aCO <sub>3</sub> )	205		mg/L	IS 3025(Part 23	1986
17	Total Hardness (as C	aCO <sub>3</sub> )	268		mg/L	15 3025 (Part 2)	Method No 5: 1983
18	Total Phosphate (as	P)	BLQ (LOQ:0.1)		mg/L	APHA, Z4th Ed., 45	00- P.E.486 2023
19	Silica (as SiO <sub>2</sub> )		7.2		mg/L	IS 3025 (Part 35	i) Method No 4: 1988
	gical Testing; Grou	Annual Control of the					
	riological Paramet	ers				ři-	
20	Total Coliforms		Present		/100 ml	APHA. 24th Ed., 9	221-0 1140 2023

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atory Services

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ULR-TC550924000002478F

Sample ID: W/02/24/06

Report No. W/02/24/06

Report Date

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## **TEST REPORT**

Sample ID : S/02/24/09	Report No. S/02/24/09	Report Date	09/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	30/01/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/02/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	08/02/2024

Sr. No.	Parameter	Result	Unit	Method
Cher	mical Testing; Group: Pollution & Envi	ronment		
1	pH (1:5 suspension at 25°C)	7.93	-	FAO, Sec. III, I, Page no.65: 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.151	mmhos/cm	FAD. Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	7.23	% by Weight	Dept. of Agriculture & Coopration, Ministry of Agriculture, Governor India, Jan 2011
4	Organic Matter	1.39	%	FAD. Sec. III, 3. Page no.73: 1976
5	Total Nitrogen (as N)	69.8	mg/kg	FAD, Sec III.4, Page No. 78: 1976
6	Total Potassium (as K)	1094	mg/kg	USEPA/SW 846/70000
7	Sodium (as Na)	392	mg/kg	USEPA/SW 846/7000B
8	Chloride (as CI)	88.2	mg/kg	AEC/C/SAP/S-7
9	Sulphate (as SO <sub>4</sub> )	61.2	mg/kg	USEPA/SW 84E/9038

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/02/24/09 bears two Test Reports - S/02/24/09 and S/02/24/09N

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# **TEST REPORT**

Sample ID : S/02/24/09	Report No. S/02/24/09N	Report Date	09/02/2024		
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra				
Sampling done by	Laboratory	Sample Description / Type	Soil		
Sampling Location	Lohara Village	Date - Sampling	30/01/2024		
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/02/2024		
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/02/2024		
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	08/02/2024		

Sr. No.	Parameter	Result	Unit	Method
Cher	nical Testing; Group: Pollution & En	vironment		
1	Calcium (as Ca)	586722	mg/kg	USEPA/SW 846/60/00
2	Magnesium (as Mg)	1.99	mg/kg	AEC/C/SAP/S-ID

Note: All results are on air dry basis.

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Sample ID S/02/24/09 bears two Test Reports - S/02/24/09 and S/02/24/09N

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# TEST REPORT

Sample ID: S/02/24/08	Report No. 5/02/24/08	Report Date	09/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	30/01/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/02/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	08/02/2024

Sr. No.	Parameter	Result	Unit	Method
Cher	nical Testing; Group: Pollution & Env	ironment		
1	pH (1:5 suspension at 25°C)	7.48	1-2	FAO. Sec. III, I. Page no.65, 1976
2	Electrical Conductivity (1:5 suspension, 25°C)	0.183	mmhos/cm	FAD, Sec. III, 5, Page no. 85 : 1976
3	Moisture Content	7.03	% by Weight	Bept. of Agriculture & Cooperation Ministry of Agriculture. Gov of India. Jan 2011
4	Organic Matter	1.62	%	FAO, Sec. III, 3, Page no.73; 1976
5	Total Nitrogen (as N)	78.2	mg/kg	FAD. Sec III.4. Page No. 78: 1976
6	Total Potassium (as K)	1838	mg/kg	USEPA/SW 846/70008
7	Calcium (as Ca)	402648	mg/kg	USEPA/SW 846/6010C
8	Sodium (as Na)	263	mg/kg	USEPA/SW 846/7000B
9	Chloride (as CI)	106	mg/kg	AEC/C/SAP/S-7
10	Sulphate (as SO <sub>4</sub> )	52.2	mg/kg	USEPA/SW 846/903B

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/02/24/08 bears two Test Reports - S/02/24/08 and S/02/24/08N

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## TEST REPORT

		***	
Sample ID: S/02/24/08	Report No. S/02/24/08N	Report Date	09/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	30/01/2024
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/02/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/02/2024
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	08/02/2024

Sr. No.	Parameter	Result	Unit	Method
Chemical	Testing; Group: Pollution & En	vironment		
1 Mag	nesium (as Mg)	2.98	mg/kg	AEC/C/SAP/S-ID

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID 5/02/24/08 bears two Test Reports - 5/02/24/08 and 5/02/24/08N

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## **TEST REPORT**

Sample ID: E/02/24/05	Report No. E/02/24/05	Report Date	09/02/2024
Name and address of Customer	A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date -Sampling	31/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	01/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	01/02/2024
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	09/02/2024

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Env	rironment		
1	pH (at 25°C)	3.33		IS 3025 (Part II): 2017
2	Total Suspended Solids	500	mg/L	IS 3025 (Part I7) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	2666	mg/L	IS 3025 (Part 44): IS93
4	Chemical Oxygen Demand	7000	mg/L	APHA.24th Ed. 5220,B.544: 2023
5	Total Dissolved Solids	1296	mg/L	IS 3025 (Part I6) : 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA.24th Ed.,5520.B.572: 2023
7	Chloride (as CI)	15	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO <sub>4</sub> )	48.8	mg/L	IS 3025 (Part 24)/Sec-1-2022

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# TEST REPORT

Sample ID: E/02/24/06	Report No. E/02/24/06	Report Date	09/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date -Sampling	31/01/2024
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	01/02/2024
Sampling Procedure	APHA,24th Ed.,2023, 1060 B, 44	Date - Start of Analysis	01/02/2024
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	09/02/2024

ir.No.	Parameter	Result	Unit	Method
Chem	ical Testing; Group: Pollution & Env	rironment		
1	pH (at 25°C)	7.45		IS 3025 (Part II): 2017
2	Total Suspended Solids	32	mg/L	IS 3025 (Part 17) Amds I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	10	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	40	mg/L	APHA,24th Ed. 5220,8:544: 2023
5	Total Dissolved Solids	1150	mg/L	IS 3025 (Part I6) : 2023
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA,24th Ed.:5520.B;572: 2023
7	Chloride (as Cl)	66	mg/L	IS 3025 (Part 32), 2017
8	Sulphate (as SO <sub>4</sub> )	412	mg/L	IS 3025 (Part 24)/Sec-I: 2022

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## STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/05	Report No. SA/02/24/05	Report Date	07/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO2: 30 ml x 1 no. plastic bottle	Date - Sampling	30/01/2024
	NO2: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	01/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	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

D G Set I - 1010 KVA
D G Set I - 1010 KVA
MS
6.3 m
0.30 m
Round
Diesel
30 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmosp	heric Pollution			
Flue Gas Temperature	90		°C	IS (1255 (Part 3) 2018
Flue Gas Velocity	6.9	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1449	:×:	Nm³/h	IS II255 (Part 3) : 2018
Particulate Matter (PM)	13	150	mg/Nm³	IS 1(255 (Part 1): 2019
Sulphur Dioxide (SO <sub>2</sub> )	7.02	Not specified	mg/Nm³	IS II255 (Part 2): 2019
Sulphur Dioxide (SO <sub>2</sub> )	0.24	Not specified	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO <sub>2</sub> )	21.7	Not specified	mg/Nm³	IS II255 (Part 7), 2017

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# STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/06	Report No. SA/02/24/06	Report Date	07/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SOz: 30 ml x 1 no. plastic bottle	Date - Sampling	30/01/2024
	NO2: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	01/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	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

Stack Details	
~ Stack Identity	D G Set II - 1010 KVA
~ Stack attached to	D G Set II - 1010 KVA
→ Material of construction	MS
~ Stack height above ground level	6.3 m
~ Stack diameter	0.30 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	30 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmosp	heric Pollution		10	
Flue Gas Temperature	90	2	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.7		m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1611	-	Nm³/h	IS (1255 (Part 3) : 2018
Particulate Matter (PM)	13	150	mg/Nm³	IS ((255 (Part I), 2019
Sulphur Dioxide (SO₂)	8.28	Not specified	mg/Nm³	IS (1255 (Part 2): 2019
Sulphur Dioxide (SO <sub>2</sub> )	0.32	Not specified	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO <sub>2</sub> )	20.3	Not specified	mg/Nm³	IS #255 (Part 7): 2017

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## STACK EMISSION MONITORING REPORT

Sample 1D : SA/02/24/07 Report No. SA/02/24/07		Report Date	07/02/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra	1	
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	g PM: 1 no. thimble SO <sub>2</sub> : 30 ml x 1 no. plastic bottle	Date - Sampling	30/01/2024
	552. 35 th x 1 hb. plustic bottle	Date - Receipt of Sample	01/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018	Date - Start of Analysis	01/02/2024
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	06/02/2024

Stack Details	
~ Stack Identity	Boiler - 135 TPH
~ Stack attached to	Boiler - 135 TPH
~ Material of construction	RCC
~ Stack height above ground level	85 m
~ Stack diameter	3 m
~ Stack shape at top	Round
~ Type of Fuel	Bagasse
~ Fuel Consumption	52 T/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmosp	heric Pollution		-	
Flue Gas Temperature	115	-	°C	IS II255 (Part 3) : 2018
Flue Gas Velocity	6.2		m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	122953		Nm³/h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	14	150	mg/Nm³	IS (1255 (Part I): 2019
Sulphur Dioxide (SO <sub>2</sub> )	5.71	Not specified	mg/Nm³	IS II255 (Part 2): 2019
Sulphur Dioxide (SO <sub>2</sub> )	16.8	Not specified	kg/d	IS (1255 (Part 2) 2019

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/01/24/08 Report No. AA/01/24/08		Report Date	05/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Khed Village	Date - Sampling	30/12/2023 to 31/12/2023
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: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	01/01/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	01/01/2024
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	04/01/2024

	Meteorologic	al Data / Env	ironment	al Conditions		
Average Wind Velocity 3.2 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 75/40%		Temperature (Max./Min.): 31/25°C	Duration of Survey 24 h	
Parameter Result		NAAQS# 2009	Unit	M TO THE REAL PROPERTY.	ethod	
Chemical Testing; Group:	Atmospheric Pollut	tion				
Sulphur Dioxide (SO <sub>2</sub> )	4.61	80	µg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	13.8	80	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size les	s 45	100	µg/m³	IS 5I82 (Part 23):2006		
Particulate Matter (size les than 2.5µm) or PM2.5	s 13	60	µg/m³	CPC8 Guideline, Volume 1.36/2012-13. Page No.15-2013		
Carbon Monoxide (CO)	1.16	4	mg/m³	CPCB Guidelines. Volume II. 37/2012-13, Page no.16, 2013		

TWA: Time Weighted Average

# : NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified

as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5, 1 hour TWA in case of Carbon

Monoxide.

Note: Sample ID AA/01/24/08 bears two Test Reports-AA/01/24/08 and AA/01/24/08N

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/06	Report No. AA/01/24/06	Report Date	05/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Sugar Factory - Office	Date - Sampling	30/12/2023 to 31/12/2023
Sample Quantity / Packing	PM10: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	01/01/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	01/01/2024
Order Reference J.O. No. 23-24/1CO00035 dated 02.12.2023		Date - Completion of Analysis	04/01/2024

	Meteorologica	al Data / Env	ironment	tal Conditions		
Average Wind Velocity 3.2 km/h	Wind Direction E-W	Relative Humidity (Max./Min.): 75/40%		Temperature (Max./Min.): 31/25°C	Duration of Survey 24 h	
Parameter	Parameter Result		Unit	M	ethod	
Chemical Testing; Group:	Atmospheric Pollut	tion				
Sulphur Dioxide (SO <sub>2</sub> )	4.02	80	µg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	9.52	80	µg/m³	IS 5/82 (Part 6): 2006		
Particulate Matter (size less than 10 µm) or PM10	42	100	µg/m³	IS 5182 (Part 23):2006		
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	12	60	hg/w <sub>3</sub>	CPCB Guideline, Volume 1,36/2012-13. Page No.15:2013		
Carbon Monoxide (CO)	1.06	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16-2013		

TWA: Time Weighted Average

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

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Note: Sample ID AA/01/24/06 bears two Test Reports-AA/01/24/06 and AA/01/24/06N

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# AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/07	Report No. AA/01/24/07	Report Date	05/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Lohara Village	Date - Sampling	30/12/2023 to 31/12/2023
Sample Quantity / Packing	PM10: 1 x 3 no. filter paper PM2.5: 1 x 1 no. filter paper SO2, NO2: 30 ml x 6 no. plastic bottle each CO: 1 x 1 no. bladder HC: 1 x 1 no. bladder	Date - Receipt of Sample	01/01/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	01/01/2024
Order Reference J.O. No. 23-24/1CO00035 dated 02.12.2023		Date - Completion of Analysis	04/01/2024

Average Wind Velocity 3.2 km/h			idity	Temperature Duration o (Max./Min.): 32/26°C 24		
3.2 km/h E-W Parameter Result		(Max./Min.): 75/40%  NAAQS# Unit 2009				
Chemical Testing; Group:	Atmospheric Pollut	tion				
Sulphur Dioxide (SO <sub>2</sub> )	4.45	80	µg/m³	IS 5182 (Part 2): 2001		
Nitrogen Dioxide (NO <sub>2</sub> )	10.4	80	µg/m³	IS 5182 (Part 6): 2006		
Particulate Matter (size les than 10 µm) or PM10	s <b>48</b>	100	μg/m³	IS 5182 (Part 23):2006		
Particulate Matter (size les than 2.5µm) or PM2.s	s 14	60	μg/m³	CPCB Guideline, Volume 1.36/2012-13, Page No.15:2013		
Carbon Monoxide (CO)	1.53	4	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16, 2013		

TWA: Time Weighted Average

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

Monoxide.

Note: Sample ID AA/01/24/07 bears two Test Reports-AA/01/24/07 and AA/01/24/07N

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## ULR-TC550924000000099F

## TEST REPORT

Sample ID: W/01/24/012	Report No. W/01/24/012	Report Date	06/01/2024	
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		•	
Sampling done by	Laboratory	Sample Description / Type	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. 23-24/1C0035 dated 02.12.2023	Date - Completion of Analysis	05/01/2024	

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chem	ical Testing; Group: Water, F	Residues in Wat			
Physi	cal & Chemical Parameters				
1	Colour	1	Max. 5	Hazen units	IS 3025 (Part 4):ISB3
2	Odour	Agreeable	Agreeable		IS 3025 (Part 5):2018
3	pH value (at 25°C)	7.67	6.5-8.5		IS 3025 (Part II): 1983
4	Turbidity	0.22	Max. 1	NTU	IS 3025 (Part ID):1984
5	Total Dissolved Solids	564	Max.500	mg/L	IS 3025 (Part IE): 1984
6	Calcium (as Ca)	60.9	Max. 75	mg/L	IS 3025 (Part 40) 1991
7	Chloride (as CI)	77	Max. 250	mg/L	IS 3025 (Part 32) IS88
8	Fluoride (as F)	0.8	Max.1.0	mg/L	(S 3025 (Part 60)
9	Free Residual Chlorine	BLQ (LOQ:0.05)	Min.0.2	mg/L	APHA, 23rd Ed., 4500-CI-5, 4-72
10	Iron (as Fe)	BLQ (LOQ:0.06)	Max.1.0	mg/L	IS 3025 (Part 2) 2019/ISD M885 2007
11	Magnesium (as Mg)	34.9	Max. 30	mg/L	IS 3825 (Part 46): 1994
12	Nitrate (as NO <sub>3</sub> )	34.4	Max.45	mg/L	APHA 23rd Ed. 4500-N03 8-4-127
13	Sulphate (as SO <sub>4</sub> )	46.1	Max. 200	mg/L	IS 3025 (Part 24)
14	Total Hardness (as CaCO <sub>3</sub> )	296	Max. 200	mg/L	IS 3025 (Part 21): 1983
15	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA, 23rd Ed., 4500 P.E. 4 184
16	Silica (as SiO <sub>2</sub> )	12	Not specified	mg/L	IS 3025 (Part 35): 1988
Biolog	ical Testing; Group: Water	÷			
Bacter	riological Parameters				
17	Total Coliforms	Absent	Not specified	/100ml	APHA, 73rd Ed., 9221-0, 9-75 P-A Coliform test: 201
BLQ:Be	elow Limit of Quantification, LOG	Q:Limit of Quanti	fication.		The second section of the second seco

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ULR-TC550924000000099F

Sample ID: W/01/24/012

Report No. W/01/24/012

Report Date

06/01/2024

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## ULR-TC550924000000100F

# TEST REPORT

		7.5		
Sample ID: W/01/24/013	Report No. W/01/24/013	Report Date	06/01/2024	
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra			
Sampling done by	Laboratory	Sample Description / Type	Ground Water	
Sampling Location Lohara Village - Borewell		Date - Sampling	31/12/2023	
Sample Quantity / Packing	ple Quantity / Packing 2 L x 1 no. plastic can 250 ml x 1 no. sterile bottle		01/01/2024	
Sampling Procedure IS 1622:1981 & IS 3025(Part I):198 & 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. 23-24/1C0035 dated 02.12.2023		Date - Completion of Analysis	05/01/2024	

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chem	ical Testing; Group: Water, I	Residues in Wat			
Physi	cal & Chemical Parameters				
1	Colour	1	Max. 5	Hazen units	IS 3925 (Part 4):1983
2	Odour	Agreeable	Agreeable		IS 3025 (Part 5):2018
3	pH value (at 25°C)	8.16	6.5-8.5		IS 3025 (Part II); I983
4	Turbidity	0.26	Max. 1	NTU	IS 3025 (Part IO):1984
5	Total Dissolved Solids	1222	Max.500	mg/L	IS 3025 (Part I6): I384
6	Calcium (as Ca)	112	Max. 75	.mg/L	IS 3025 (Part 40): 1991
7	Chloride (as CI)	252	Max. 250	mg/L	IS 3025 (Part 32):1988
8	Fluoride (as F)	1.4	Max.1.0	mg/L	IS 3025 (Part 60)
9	Free Residual Chlorine	BLQ (LOQ:0.05)	Min.0.2	mg/L	APHA 23rd Ed. 4500-CI-B. 4-72
10	Iron (as Fe)	0.102	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISD II885:2007
11	Magnesium (as Mg)	58	Max. 30	mg/L	IS 3025 (Part 46) 1994
12	Nitrate (as NO <sub>3</sub> )	5.45	Max.45	mg/L	APHA, 23rd Ed., 4500-N03 8-4-127
13	Sulphate (as SO <sub>4</sub> )	155	Max. 200	mg/L	IS 3025 (Part 24)
14	Total Hardness (as CaCO₃)	520	Max. 200	mg/L	IS 3025 (Part 2i): 1983
15	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA, 23rd Ed., 4500 P.E. 4-164
16	Silica (as SiO <sub>2</sub> )	15	Not specified	mg/L	IS 3025 (Part 35): 1988
	ical Testing; Group: Water				The state of the s
Bacter	iological Parameters				
17	Total Coliforms	Absent	Not specified	/100ml	APHA, 23rd Ed., 9221-D, 9-75 P-A Coliform test, 20
3LQ:Be	low Limit of Quantification, LOC	:Limit of Quantif	lication.		

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ULR-TC550924000000100F

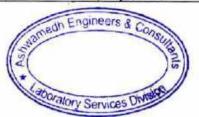
Sample ID: W/01/24/013

Report No. W/01/24/013

Report Date

06/01/2024

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### ULR-TC550924000000098F

## TEST REPORT

	105509240000000	277 1919/1 2019/201	TEST REPORT	1			
Sample ID: W/01/24/011 Report No. W/01,			Report Date			06/01/2024	
	ne and address of tomer	A/P Lohara (Khurd), 7 Dist. Osmanabad - 4136	Tal. Lohara,				
Sam	pling done by	Laboratory		San	nple Descripti	ion / Type	Surface Water
Sam	pling Location	Makhi Dam		Dat	e - Sampling		31/12/2023
Sam	ple Quantity / Packing	2 L x 1 no. plastic can 250 ml x 1 no. sterile be	ottle	Dat	e - Receipt of	Sample	01/01/2024
AS (1-00)	pling Procedure	IS 1622:1981 & IS 302: APHA 23rd Ed.2017, 10: A,9-36 & 9060 B,9-39 &	60 B,1-40, 9060 LISO 19458:2006		e - Start of Ar		01/01/2024
	er Reference	W.O. No. 23-24/1C0035		Dat		n of Analysis	05/01/2024
Sr.No		ameter Desidence in N	Result		Unit		Method
	sical & Chemical Pa	p: Water, Residues in V	vater				
1	Colour	directers	1		Hazen	IS 3025 (Part 4)	1983
2	Odour		Agreeable			IS 3025 (Part 5)	2018
3	pH value (at 25°C)		8.73			IS 3025 (Part II) 1983	
4	Turbidity		0.22	NTU IS 3025 (Part II		H984	
5	Biochemical Oxygen Demand (3 days, 27°C)		3		mg/L	IS 3025 (Part 44	1) 1993
6	Chemical Oxygen Demand		12		mg/L APHA 23rd Ed.		5220-8 5-18
7	Total Dissolved Solid	s	550	mg/L    \$ 3025 (Part		IS 3025 (Part 16	1984
8	Calcium (as Ca)		52.9	mg/L		IS 3025 (Part 40	1): 1991
9	Chloride (as CI)		114		mg/L	IS 3025 (Part 32	7) 1988
10	Fluoride (as F)		0.9		mg/L	IS 3025 (Part 80	1)
11	Free Residual Chlorin	ie	BLQ (LOQ:0.05)		mg/L	APHA, 23rd Ed., 4500-EHE, 4-72	
12	Iron (as Fe)		0.158		mg/L	IS 3025 (Part 2).	2019/150 11885 2007
13	Magnesium (as Mg)		31		mg/L	IS 3025 (Part 46	) 1994
14	Nitrate (as NO <sub>3</sub> )		3.62		mg/L	APHA, 23rd Ed., 4	500-N03 B-4-127
15	Sulphate (as SO <sub>4</sub> )		130		mg/L	IS 3025 (Part 24	)
16	Total Alkalinity (as Ca		145		mg/L	IS 3025(Part 23) (986	
17	Total Hardness (as CaCO <sub>3</sub> )		260		mg/L	(S 3025 (Part 21)	1983
18	Total Phosphate (as P)		BLQ (LOQ:0.1)		mg/L APHA 23rd Ed. 4500		500 P.E. 4-164
19	Silica (as SiO <sub>2</sub> )	*	14		mg/L	IS 3025 (Part 35	1988
	ogical Testing; Grou					1	
	eriological Paramet	ers					
20	Total Coliforms	ication, LOQ:Limit of Qua	Present		/100ml	APHA 23rd Ed. 9	221-0, 9-75 P-A Coliform test. 20

Sorfall Kapse Section In-charge (Biological) Reviewed & Authorised by End of Report

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







ULR-TC550924000000098F

Sample ID: W/01/24/011

Report No. W/01/24/011

Report Date

06/01/2024

THE

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



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

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## TEST REPORT

Sample ID: S/01/24/05	Report No. S/01/24/05	Report Date	09/01/2024	
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra			
Sampling done by	Laboratory	Sample Description / Type	Soil	
Sampling Location	Lohara Village	Date - Sampling	30/12/2023	
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/01/2024	
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/01/2024	
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	08/01/2024	

Sr. No.	Parameter	Result	Unit	Method
Cher	nical Testing; Group: Pollution & En	vironment		
1	pH (1:5 suspension at 25°C)	9.47	-	FAD. Sec. III, I, Page no.65
2	Electrical Conductivity (1:5 suspension, 25°C)	0.786	mmhos/cm	FAD. Sec. III, 5, Page no. 85
3	Moisture Content	8.23	% by Weight	Dept. of Agriculture & Coopretion. Ministry of Agriculture. Gove of India. Jan 2011
4	Organic Matter	BLQ (LOQ:1)	%	FAD Sec III, 3 Page no.73
5	Total Nitrogen (as N)	81.1	mg/kg	FAII. Sec III. 4. Page No. 78
6	Total Potassium (as K)	1530	mg/kg	USEPA/SW 846/7000B
7	Sodium (as Na)	2426	mg/kg	USEPA/SW 846/7000B
8	Chloride (as CI)	88.5	mg/kg	AEC/C/SAP/S-7
9	Sulphate (as SO <sub>4</sub> )	80.9	mg/kg	USEPA/SW 846/9038

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

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/24/05 bears two Test Reports - S/01/24/05 and S/01/24/05N

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







## **TEST REPORT**

		•••	
Sample ID : S/01/24/05	Report No. S/01/24/05N	Report Date	09/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Lohara Village	Date - Sampling	30/12/2023
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/01/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/01/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	08/01/2024

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution & En	vironment		
1	Calcium (as Ca)	14.5	%	USEPA/SW 846/6010C
2	Magnesium (as Mg)	2	mg/kg	AFC/C/SAP/S-IO

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

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/24/05 bears two Test Reports - S/01/24/05 and S/01/24/05N

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## **TEST REPORT**

Sample ID : S/01/24/04	Report No. S/01/24/04	Report Date	09/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	30/12/2023
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/01/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/01/2024
Order Reference	JO No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	08/01/2024

Sr. No.	Parameter	Result	Unit	Method				
Cher	Chemical Testing; Group: Pollution & Environment							
1	pH (1:5 suspension at 25°C)	8.23	7,51	FAO, Sec. III. I. Page no.65				
2	Electrical Conductivity (1:5 suspension, 25°C)	0.319	mmhos/cm	FAD, Sec. III, 5, Page no. 85				
3	Moisture Content	7.19	% by Weight	Dept. of Agriculture & Coopration, Ministry of Agriculture, Gov of India, Jan 2011				
4	Organic Matter	1.83	%	FAO, Sec. III. 3, Page no 73				
5	Total Nitrogen (as N)	69.8	mg/kg	FAD. Sec III. 4, Page No. 78				
6	Total Potassium (as K)	2199	mg/kg	USEPA/SW 846/70008				
7	Sodium (as Na)	418	mg/kg	USEPA/SW 846/70008				
8	Chloride (as CI)	115	mg/kg	AEC/C/SAP/S-7				
9	Sulphate (as SO <sub>4</sub> )	72.8	mg/kg	USEPA/SW 846/9038				

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/24/04 bears two Test Reports - S/01/24/04 and S/01/24/04N

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







## **TEST REPORT**

Sample ID : S/01/24/04	Report No. 5/01/24/04N	Report Date	09/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Soil
Sampling Location	Khed Village	Date - Sampling	30/12/2023
Sample Quantity / Packing	500 g x 1 no. paper bag	Date - Receipt of Sample	01/01/2024
Sampling Procedure	AEC/SAM/37	Date - Start of Analysis	01/01/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	08/01/2024

Sr. No.	Parameter	Result	Unit	Method
Che	mical Testing; Group: Pollution & En	vironment		
1	Calcium (as Ca)	26.3	%	USEPA/SW 845/60/00
2	Magnesium (as Mg)	1.50	mg/kg	AEC/C/SAP/S-10

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/24/04 bears two Test Reports - S/01/24/04 and S/01/24/04N

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# **TEST REPORT**

Sample ID : E/01/24/02	Report No. E/01/24/02	Report Date	05/01/2024		
Name and address of Customer	Lokmangal Mauli Industries Ltd.  A/P Lohara (Khurd), Tal. Lohara,  Dist. Osmanabad - 413608,  Maharashtra				
Sampling done by	Laboratory	Sample Description / Type	Treated Trade Effluent		
Sampling Location	ETP Outlet	Date -Sampling	31/12/2023		
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	01/01/2024		
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	01/01/2024		
Order Reference	JO No. 23-24/1CO00035 dated 02.12,2023	Date - Completion of Analysis	04/01/2024		

r.No.	Parameter	Result	Unit	Method			
Chemical Testing; Group: Pollution & Environment							
1	pH (at 25°C)	8.04		IS 3025 (Part II) 1983			
2	Total Suspended Solids	36	mg/L	IS 3025 (Part 17):1984			
3	Biochemical Oxygen Demand (3 days, 27°C)	35	mg/L	IS 3025 (Part 44):1993			
4	Chemical Oxygen Demand	120	mg/L	APHA, 23rd Ed., 5220-8, 5-18			
5	Total Dissolved Solids	952	mg/L	IS 3025 (Part 16):1984			
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-8, 5-42			
7	Chloride (as CI)	86	mg/L	IS 3025 (Part 32):1988			
8	Sulphate (as SO <sub>4</sub> )	80.4	mg/L	(S 3025 (Part 24)			

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#### TEST REPORT

Sample ID: E/01/24/01	Report No. E/01/24/01	Report Date	05/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date -Sampling	31/12/2023
Sample Quantity / Packing	2 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of sample	01/01/2024
Sampling Procedure	IS 3025 (Part 1):1987 Amds.1& APHA,23rd Ed.2017,1060 B,1-40	Date - Start of Analysis	01/01/2024
Order Reference	JO No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	04/01/2024

ir.No.	Parameter	Result	Unit	Method			
Chem	Chemical Testing; Group: Pollution & Environment						
1	pH (at 25°C)	2.98		IS 3825 (Part II):I983			
2	Total Suspended Solids	320	mg/L	IS 3025 (Part 17):1984			
3	Biochemical Oxygen Demand (3 days, 27°C)	4330	mg/L	IS 3025 (Part 44)-1993			
4	Chemical Oxygen Demand	10800	mg/L	APHA, 23rd Ed., 5220-B, 5-IB			
5	Total Dissolved Solids	1986	mg/L	IS 3025 (Part IB):1984			
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-8, 5-42			
7	Chloride (as CI)	140	mg/L	IS 3025 (Part 32) 4988			
8	Sulphate (as SO <sub>4</sub> )	84	mg/L	IS 3025 (Part 24)			

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## STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/09	Report No. SA/01/24/09	Report Date	05/01/2024	
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra	P Lohara (Khurd), Tal. Lohara, st. Osmanabad - 413608,		
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	Date - Sampling	30/12/2023	
	NO2: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	01/01/2024	
Sampling Procedure IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005		Date - Start of Analysis	01/01/2024	
Order Reference	J.O. No. 23-24/1CO00035 dated 02.12.2023	Date - Completion of Analysis	04/01/2024	

Stack Details	
~ Stack Identity	D G Set I - 1010 KVA
~ Stack attached to	D G Set I - 1010 KVA
→ Material of construction	MS
~ Stack height above ground level	6.3 m
∼ Stack diameter	0.30 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	40 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmosp	heric Pollution	The state of the s		
Flue Gas Temperature	80	-	°C	IS 1/255 (Part 3):2008
Flue Gas Velocity	6.44	-	m/s	IS II255 (Part 3):2008
Flue Gas Flow Rate	1383		Nm³/h	IS II255 (Part 3):2008
Particulate Matter (PM)	13	150	mg/Nm³	IS II/255 (Part I):I985
Sulphur Dioxide (SO₂)	5.52	Not specified	mg/Nm³	IS II255 (Part 2).I985
Sulphur Dioxide (SO₂)	0.18	Not specified	kg/d	IS (1255 (Part 2) 1985
Oxides of Nitrogen (NO <sub>2</sub> )	16.1	Not specified	mg/Nm³	IS 1/255 (Part 7) 2005

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End of Report Social Springs Services Division

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# STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/010	Report No. SA/01/24/010	Report Date	05/01/2024		
Name and address of Customer	Lokmangal Mauli Industries Ltd.  A/P Lohara (Khurd), Tal. Lohara,  Dist. Osmanabad - 413608,  Maharashtra				
Sampling done by	Laboratory	Sample Description / Type	Stack Emission		
Sample Quantity / Packing	PM: 1 no. thimble SO <sub>2</sub> : 30 ml x 1 no. plastic bottle	Date - Sampling	30/12/2023		
	NO2: 25 ml x 1 no. plastic bottle	Date - Receipt of Sample	01/01/2024		
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	01/01/2024		
Order Reference J.O. No. 23-24/1C000035 dated 02.12.2023		Date - Completion of Analysis	04/01/2024		

Stack Details		
~ Stack Identity	D G Set II - 1010 KVA	
~ Stack attached to	D G Set II - 1010 KVA	
→ Material of construction	MS	
~ Stack height above ground level	6.3 m	
~ Stack diameter	0.30 m	
~ Stack shape at top	Round	
~ Type of Fuel	Diesel	
~ Fuel Consumption	40 L/h	
THE ACTOR OF THE PARTY.	1000 mm 1 1000 m	

	(-500) (400)				
Parameter	Result	Limits as per MPCB Consent	Unit	Method	
Chemical Testing; Group: Atmos	pheric Pollution				
Flue Gas Temperature	77		°C	IS (1255 (Part 3):2008	
Flue Gas Velocity	6.2	*	m/s	IS 11255 (Part 3):2008	
Flue Gas Flow Rate	1343		Nm³/h	IS II255 (Part 3):2008	
Particulate Matter (PM)	12	150	mg/Nm³	IS II255 (Part I):1985	
Sulphur Dioxide (SO <sub>2</sub> )	8.28	Not specified	mg/Nm³	IS II255 (Part 2):1985	
Sulphur Dioxide (SO <sub>2</sub> )	0.27	Not specified	kg/d	IS II255 (Part 2):1985	
Oxides of Nitrogen (NO <sub>2</sub> )	19.8	Not specified	mg/Nm³	IS II255 (Part 7):2005	

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#### STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/011	Report No. SA/01/24/011	Report Date	05/01/2024
Name and address of Customer	Lokmangal Mauli Industries Ltd. A/P Lohara (Khurd), Tal. Lohara, Dist. Osmanabad - 413608, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO <sub>2</sub> : 30 ml x 1 no. plastic bottle	Date - Sampling	30/12/2023
	Sozi So ili x 1 ilo. plastic bottle	Date - Receipt of Sample	01/01/2024
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008	Date - Start of Analysis	01/01/2024
Order Reference	J.O. No. 23-24/1C000035 dated 02.12.2023	Date - Completion of Analysis	04/01/2024

Stack Details				
~ Stack Identity	Boiler - 135 TPH			
~ Stack attached to	Boiler - 135 TPH			
∼ Material of construction	RCC			
~ Stack height above ground level	85 m			
∼ Stack diameter	3 m			
~ Stack shape at top	Round			
~ Type of Fuel	Bagasse			
~ Fuel Consumption	52 T/h			
D=				

	1000000				
Parameter	Result	Limits as per MPCB Consent	Unit	Method	
Chemical Testing; Group: Atmosph	eric Pollution				
Flue Gas Temperature	118		°C	IS II255 (Part 3):2008	
Flue Gas Velocity	8.8		m/s	IS II255 (Part 3):2008	
Flue Gas Flow Rate	170995	•	Nm³/h	IS (1255 (Part 3):2008	
Particulate Matter (PM)	12	150	mg/Nm³	IS 11255 (Part 1):1985	
Sulphur Dioxide (SO <sub>2</sub> )	5.52	Not specified	mg/Nm³	IS H255 (Part 2):1985	
Sulphur Dioxide (SO <sub>2</sub> )	22.7	Not specified	kg/d	IS II255 (Part 2):1985	

Saanvi Dalal

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   Disclaimer



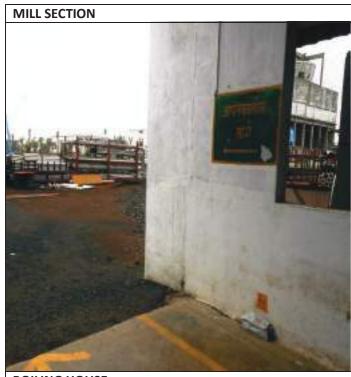


# Annexure - II Safety Management

## **LOKMANGAL MAULI IND. LTD LOHARA KH**

**TQ-LOHARA DIST-OSMANABAD** 

**EMERGENCY EXIT** 









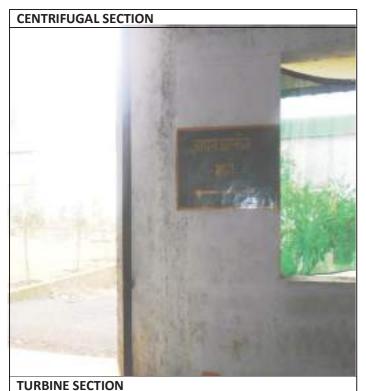
**PAN SECTION** 



## LOKMANGAL MAULI IND. LTD LOHARA KH

**TQ-LOHARA DIST-OSMANABAD** 

**EMERGENCY EXIT** 









## LOKMANGAL MAULI IND. LTD LOHARA KH

**TQ-LOHARA DIST-OSMANABAD** 

**FIRE VEHICLE PHOTO** 

#### FIRE FIGHTER STAND (BOILER AREA)



#### FIRE FIGHTER VEHICLE



#### FIGHTER VEHICLE DETAILS

- a. Pump Type Fire Fly Type
- b. Tank Capacity 9000Lit
- c. 1 Monitor
- d. Hoserill Pipe length 50 Fit
- e. Canvas hosepipe 5 nos



# LOKMANGAL MAULI IND. LTD LOHARA KHTQ-LOHARA DIST-OSMANABAD MOCK DRILL PHOTO









# Annexure - III Boiler Stack Photos

## Photographs of ESP system







# Annexure - IV Green Belt

## Lokmangal Mauli Ind Ltd,

## **Green belt photos**









## Lokmangal Mauli Ind Ltd,

Green belt photos









## Lokmangal Mauli Ind Ltd,

**Green belt photos** 





# Annexure - V Consent To Operate Copy

#### MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437

Fax: 24023516

Website: http://mpcb.gov.in Email: cac-cell@mpcb.gov.in



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

No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000116031/CR/2303000934

To,

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



Date: 15/03/2023

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

unit, under RED category.

Ref: 1. Earlier consent granted vide no. Format1.0/CAC/UAN No.MPCB-CONSENT-0000094132/CR-2012000521 dated 10.12.2020.

2. Minutes of 6th CAC meeting held in 15.09.2021 & 24.09.2021.

Your application No.MPCB-CONSENT-0000116031 Dated 30.06.2021

For: grant of Consent to Renewal 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 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: 31.07.2024
- 2. The capital investment of the industry is Rs.377.0474 Crs. (As per C.A Certificate submitted by industry).
- 3. Consent is valid for the manufacture of:

Sr No	Product	Maximum Quantity	UOM
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:

Sr No	Description	Permitted in CMD	Standards to	Disposal
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:

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
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:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Fly and bottom ash	480	MT/M		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:

Sr No	Type of Waste	HW Category.	Quantity & UoM	Treatment	•
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 6th Consent Appraisal Committee meeting dated 15.09.2021 & 24.09.2021.
- 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. Industry shall minimize use of raw water for cooling tower and use treated effluent for cooling purpose

This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.







Signed by: Dr. Y.B.Sontaleke
Joint Director(WPC) & InCharge Of CAC-Cell
For and on behalf of
Maharashtra Pollution Control Board
cac-cellampeb.gov.in
2023-03-15 15:01-52 IST

#### **Received Consent fee of -**

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	2262284.00	TXN2106001672	30/06/2021	Online Payment
2	15000.00	MPCB-DR-6854	09/07/2021	NEFT

#### 0

#### Copy to:

- 1. Regional Officer, MPCB, Aurangabad and Sub-Regional Officer, MPCB, Latur
- They are directed to ensure the compliance of the consent conditions.
- 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.

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	рН	5.5-9.0
(2)	Oil & Grease	10
(3)	BOD (3 days 27°°)	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.
- A] As per your application, you have provided sceptic 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 there of & 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:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
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.	Grandening	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:**

 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	5%	<b>50</b> <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/Nm3
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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-qen 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/C 2O/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	31.07.2022	30.11.2022

#### **BG** Forfeiture History

Srno.		Amount of BG imposed	Submission Period	Purpose	Amount of BG Forfeiture	BG	
NA							

#### **SCHEDULE-IV**

#### **General Conditions:**

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.

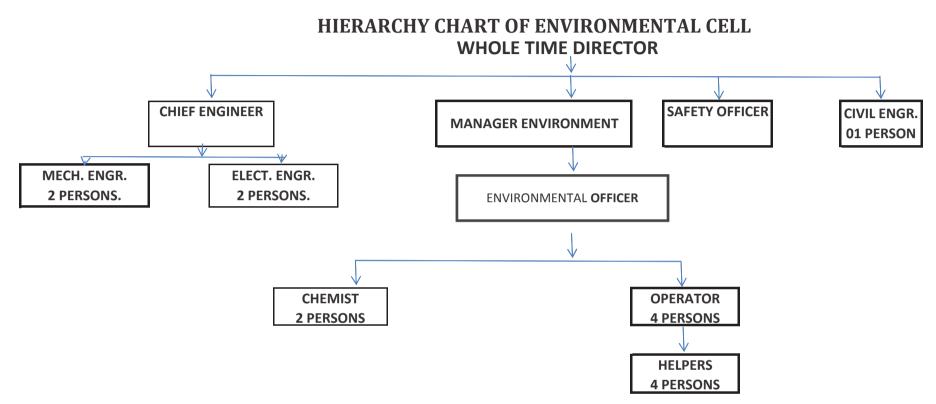
- The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 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.
- 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.
- 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.
- 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).

- 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 sitting 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.
- 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.
- 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.

This certific	ate is digitally &	electronically s	igned.	
	महाराष्ट्	<u> </u>		

# Annexure - VI Environment Management Cell

### LOKMANGAL MAULI IND. LTD., LOHARA MAHARASHTRA.



# Annexure - VII Silo for Bottom & Fly Ash Storage

Lokmangal Mauli Ind Ltd,
Silo for collecting & storing of bottom & fly ash



# Annexure - VIII Published Advertise in News Papers

### 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

Lokmangai Mauli Industries Ltd.

# लोकमंगल माऊली इंडस्ट्रिज लिः

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

# जाहीर प्रगटन

पर्यावरण तथा वन मंत्रालय (MOEF) भारत सरकार यांनी लोकमंगल माऊली इंडस्ट्रिज लि. लोहारा (खुर्द) खंड, ता. लोहारा, जि. उस्मानाबाद यांच्या नविन प्रकल्पास ३० मेगावॅट विद्युत निर्मितीसाठी लागणारे पर्यावरण विषयक मंजुरी 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 वेजसाइंट http://moef.nic येथे पाह शकता.

संचालक

लोकमंगल माऊली इंडस्ट्रिज लि.

# Annexure - IX DG Set With Stack attached

LMIL DG System



# Annexure – X Environment Clearance

SEAC-2013/C.R.538/TC-II dated 11/06/2014 & F. No. J-13012/02/2012-IA.II(T) dated 25/02/2014



# F. No. J-13012/02/2012-IA.II(T) Government of India Ministry of Environment & Forests

Ph: 011-2436 4067 E-mail: sarojmoef@yahoo.com Paryavaran Bhawan CGO Complex, Lodi Road New Delhi-110 003

Dated: 25.02.2014.

To

M/s Lokmangal Mauli Industries Ltd., Lokmangal House, 8536-A/11 Murarji Peth, Near Old Poona Naka, Solapur, Maharashtra - 413 001.

Sub: 30 MW Bagasse and Biomass based Power Plant of M/s. Lokmangal Mauli Industries Ltd. at Village Lohara Khurd, Taluk: Lohara District: Osmanabad, in Maharashtra- reg. Environmental Clearance.

Sir,

The undersigned is directed to refer to your letter dated 13.07.2013, on the subject mentioned above. The Ministry of Environment & Forests has examined the application.

- It is noted that the proposal is for setting up of 30 MW Bagasse and Biomass 2. Based Power Plant at village Lohara Khurd, Taluk Lohara, District Osmanabad, in Maharashtra. The power plant shall consists of 135 TPH Boiler and a 30 MW extraction cum condensing type Steam Turbine. Bagasse and other bio-mass will be used as fuel. Environmental clearance for the sugar plant of capacity 6000 TCD shall be obtained from the SEIAA, Maharashtra as the same is a 'B' category project. The power plant will run for 300 days. Bagasse requirement will be 54000 MT/month. During 180 days the plant will run with Bagasse from own sugar mill and for the rest of 120 off season days Bagasse will be obtained from own saved Bagasse and from outside neighbouring sugar mills. ESP meeting 100 mg/Nm<sup>3</sup> will be installed. Fly ash generated will be collected in ash silo and will be given to farmers for use as manure. No woody Bio-Mass will be used. Out of 30 MW, about 17 MW will be sold to the grid. Land requirement will be 50 Ha which is already acquired. The co-ordinates of the site are located at Latitude 17059'23" N and Longitude 76<sup>0</sup>22'23" E. Water requirement will be 900 m<sup>3</sup>/day which will be sourced from Makani Dam on Terana River. There are no National Parks, Wildlife Sanctuaries, Heritage Sites, Tiger/Biosphere reserves etc. within 10 km of the project site. Public Hearing was held on 26.10.2012. Cost of the project will be Rs.282.17 Crores.
- 3. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006.
- 4. Based on the information submitted by you, as at Para 2 above and others and presentation made before the Expert Appraisal Committee (Thermal

Power) in its 3<sup>rd</sup> Meeting held during October 10, 2013, by you and your consultant viz. M/s. Mantras Green Resources Ltd. the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA notification dated September 14, 2006, subject to the compliance of the following Specific and General conditions:

#### A. Specific Conditions:

- i) To control the particulate emission from the boiler, ESP meeting 100 mg/Nm<sup>3</sup> shall be installed.
- ii) Bag filters shall be provided for control of fugitive emissions from the ash handling areas.
- iii) A stack of 76 m height shall be installed.
- iv) 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.
- v) COC of 4.0 shall be adopted.
- vi) Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.
- vii) 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.
- viii) A minimum amount of 0.4% 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.
- ix) 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.
- x) It shall be ensured that an in-built monitoring mechanism for the CSR 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 website.

- xi) Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of atleast 33% 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%.
- xii) An Environmental 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 o r g a n i z a t i o n .

#### **B.** General Conditions:

- i) 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.
- ii) Monitoring surface water quality and quantity in the area shall also be regularly conducted and records maintained. The monitored data 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.
- iii) Wastewater generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB.
- iv) 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.
- v) 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.
- vi) A well designed 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 Regional Office of the Ministry **within six months**.
- vii) 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 non noisy/less noisy areas.
- viii) Regular monitoring of ambient air ground level concentration of SO<sub>2</sub>, NOx, PM<sub>2.5</sub> & 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.
- ix) Well designed acoustic enclosures for the DG sets and noise emitting equipments to achieve the desirable insertion loss viz. 25 dB(A) should be provided.
- x) 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.
- xi) 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%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
- xii) First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- xiii) 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xiv) The project proponent shall also adequately contribute in the development of the neighbouring 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.
- xv) 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 programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self employment shall be imparted to pre identified villagers free of cost.
- xvi) 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 atleast 75%.
- xvii) An Environmental Cell comprising of atleast 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.

- xviii) 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>.
- xix) A copy of the clearance letter shall be sent by the proponent to concerned 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.
- xx) The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of 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 (PM $_{2.5}$  & PM $_{10}$ ), SO $_{2}$ , NO $_{x}$  (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.
- xxi) The environment statement for each financial year ending 31<sup>st</sup> 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.
- xxii) 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.
- xxiii) Regional Office of the Ministry of Environment & 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 basis. Criteria pollutants levels including $NO_x$ (from stack & ambient air) shall be displayed at the main gate of the power plant.

- xxiv) Separate funds shall be allocated 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.
- xxv) 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.
- xxvi) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.
- 5. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.
- 6. The environmental clearance accorded **shall be valid for a period of 5 years** to start operations by the power plant.
- 7. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 8. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.
- 9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.
- 10. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Yours faithfully,

#### Copy to:

- 1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
- 2. The Secretary (Environment), Forests and Environment Department Government of Maharashtra.
- 3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
- 4. The Chairman, Maharashtra Pradesh State Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai 400 022
- 5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
- 6. The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Ravishankar Nagar, Bhopal 462016.
- 7. The District Collector, Osmanabad District, Govt. of Maharashtra.
- 8. The Director (EI), MOEF.
- 9. Guard file.
- 10. Monitoring file.

(Dr. Saroj)
Director

### Government of Maharashtra

SEAC-2013/C.R.538/TC-II Environment department Room No. 217, 2<sup>nd</sup> floor, Mantralaya Annexe, Mumbai- 400 032. Dated: 11<sup>th</sup> June, 2014

To, M/s. Lokmangal Mauli Industries Ltd. Village -Khed, Tal Lohara, Distt. Osmanabad

Subject: Environment clearance for proposed sugar production of 6000 TCD at Khed, Tal Lohara, Distt. Osmanabad by M/s. Lokmangal Mauli Industries Ltd.

Sir.

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 73<sup>rd</sup> meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 70<sup>th</sup> Meeting.

 It is noted that the proposal is for grant of Environment Clearance for proposed sugar production of 6000 TCD at Khed, Tal Lohara, Dist. Osmanabad. SEAC considered the project under screening category 5(j) B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Proposed Sugar production of 6000TCD.		
Project Proponent	M/s. Lokmangal Mauli Industries Ltd., Village- khed, Tal- Lohara, District- Osmanabad, Maharashtra		
Consultant	Mantras Green Resource Ltd.		
Category as per EIA Notification	5(j)		
Total plot Area:	123.5 acres		
Built up Area :	12.35 acres		
Notified Industrial	No		
EIA Submitted	Consolidated EIA for 6000 TCD sugar mill and 30 MW cogen submitted to MoEF		
Estimated cost of the project	Rs 240 Cr		

Location details of the project	Latitude - 17 <sup>0</sup> ,59°23"N     Longitude- 76 <sup>0</sup> ,22'23"E     Selevation above Mean Sea Level - 682 M     Nature of terrain (hilly, valley, plains, Coastal plains etc Plains     Nature of Soil (sandy, clayey, sandy loam etc.) - clayey Black soil					
Water Conservation	PARTICIPATION OF THE PROPERTY OF THE PARTICIPATION	k for three d e it after filt	ays storage or ration to redu			
	II. Water supply- Total water required: Source: Lower Terna Dam, commitment letter to be obtained from Central/S Ground water authorities) Quantity of recycled water: (m³/day) Total Water Requirement: 1300 m³/day (i) Process: 700 m³/day (ii) Cooling water: 333 m³/day (iii) DM Water 162 m³/day (iv) Dust Suppression: 100 m³/day (Blow down recycled) (v) Domestic 100 m³/day (vi) Green belt: 150 m3/day					
Sewage and Waste Water	project:	tent general luent: 100 m P: To be trea t: 660 m <sup>3</sup> /6 own ETP. TP: 1000 m nical analysi	3/day ited in ETP day 3/day s of treated w	rater to be used in arged in m <sup>3</sup> /day)		
	Parameters(p H, BOD, COD, etc)	Untreated	Treated			
	pH	6-8	In between 5.5 -9			
	BOD	1500	Below 100			
	COD	2500	Below 100			
	TSS	600	Below 100			
Solid waste Management:	Sr. Source No	QTY (TPM)	From (sludge/d ry slurry e.t.c.)	compa nion		

		1	Raw water treatment plant	-	7	-
		2	ETP	6.0	***	-
		3	Process bagasse	45000		-
			Process Pressmud	7200		
		4	Spent catalyst	Nil	-	
		5	Oily sludge	3.0		
Green Be Develop	ment	Area	en belt area used for gre I no of trees	en belt d	evelopment 5000.	- 40 acre.
of Fuel		Fu	el nsumption	Coal	Bagasse	HSD
Mode of Transportation of fuel to site		Fu		Nil 1472	1472 MTD	500 Kg/hr.
		Calorific value Kcal/kg		N.A.	2270	10000
					1.5%	-
Energy		Tota	l Power Req	uirement		50 KW in seas
Energy		Sour Pres Prop	ree of Power ent (in existing osed : 30 M	– own po ng) – in o W	-300 ower plant	50 KW in seas KW off seaso
	mental Managementpl	Sour Pres Prop	ree of Power ent (in existing bosed : 30 M	– own pong) – in o	-300 ower plant existing	
	mental Managementpl	Pres Prop an Buc Recu Cost	ree of Power ent (in existing bosed : 30 M entry Allo	own pong) – in o W	-300 ower plant existing	
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Environ Sr.No	Air Pollution Control Water Pollution Control	Recu Cost Anni laes 60	ree of Power ent (in existing bosed : 30 M enterpoly Allo lightery Allo urring (in the property of the propert	ocation :	-300 ower plant existing	
Environ Sr.No	Air Pollution Control Water Pollution	Recu Cost Anni lacs	ree of Power ent (in existing bosed : 30 M examples of the ligetary Allo arring Per I um Rs	own pong) – in own pocation : Capital CRs lacs	-300 ower plant existing	
Environ Sr.No	Air Pollution Control Water Pollution Control Noise Pollution	Recu Cost Anni laes 60	ree of Power ent (in existing bosed : 30 M examples of the ligetary Allo arring Per I um Rs	ocation :	-300 ower plant existing	
Environ Sr.No	Air Pollution Control Water Pollution Control Noise Pollution Control Environmental Monitoring And	Recu Cost Anni lacs 60 70	ree of Power ent (in existing osed : 30 M early Allouring (in the property of	own pong) – in own pocation : Capital CRs lacs	-300 ower plant existing	
Environ Sr.No	Air Pollution Control Water Pollution Control Noise Pollution Control Environmental Monitoring And Management Reclamation	Recu Cost Anni laes 60 70	ree of Power ent (in existing posed : 30 M entry Allouring (in print) (in pri	- own pong) - in own pong) - in own pong) - in own pong with the control of the control own pong with the control own pong	-300 ower plant existing	

Public Hearing details:	A. Date of Advertisement: 23/09/2012     B. Newspapers in which the advertisement appeared (With copies)-
details.	daily Lokmat & Lokmat times.
	C. Date of Hearing: 26/10/2012
	D. Panel Present: Shri K M Nagargoje Collector and DM (Osmanabad) Shri P M Joshi Regional Officer MPCB Aurangabad Shri Nitin Shinde Sub Regional officer MPCB Latur

#### Raw materials:

Physical and chemical nature of raw material	Quantity (T/M) full production	Source of materials	Means of transportation (Source to storage site)
Solid	1,80,000	Nearest farms	Through bulleccarts or trucks
Solid	300	Purchase from	By truck
Liquid	4.0	Purchase from	By truck
Semisolid	3.25	Purchase from	By truck
Solid	233 kg/month	Purchase from	By truck
Solid	330 kg/month	Purchase from	By truck
Solid	105 kg/month	Purchase from	By truck
Liquid	1905 kg/month	Purchase from	By truck
Solid	36870	From own factory	By in built in conveyors

Product Profile (Tones per month):

Products	Existing	Proposed activity	Total
A. Main Products	Nil	White crystalline sugar – 21600 MT/month	White crystalline sugar – 21600 MT/month
B. By-Products	Nil	Bagasse – 54000 MT/month Molasses – 7200 MT/month Press mud – 7200 MT/Month	Bagasse – 54000 MT/month Molasses – 7200 MT/Month Press mud – 7200 MT/Month
C. Intermediate Products	Nil	Nil	Nil

## Storage of chemicals (inflammable/explosive/hazardous/toxic substances):

S r. No	Name	Capacity	Physical and Chemical Compos	Consum ption (MT/M)	Maximum Quantity of storage at any	Source of Supply	transportatio
1	Phosphori e acid	0.266 kg/100 quintal cane	Liquid	4.8	10 MT	Purchas e from market	By truck
2	Caustic soda	0.220 Kg/100 QTL Cane.	Solid	396 kg/month	20 KL	Purchas e from market	By tanker
3	Sulfur	5 kg/100 quintal cane	Solid	90 MT/Month	50 MT	Purchas e from market	By tanker
4	Sulfuric		Liquid		20 KL	Purchas	By truck

	acid				e from market	
5	Hydrochlo ric acid	0.127 Kg/100 QTL Cane	Liquid	 20 KL	Purchas e from market	By tanker

## Details of Pollution Control Systems:

Item	Existin	Proposed to be installed
Air	Nil	Electrostatic precipitator will be installed to control air pollution to limit particulate emission to within 150 mg/nm <sup>3</sup> .
		Emission of SO <sub>2</sub> will be restricted 171 kg/hr if D G set is run at full load 85 m high chimney proposed
Water	Nil	1000 m3/day capacity ETP is proposed complete bio digester, oil and grease separator, equalization tank, primary treatment, secondary treatment, clarification followed by filtration
Noise	Nil	Acoustic enclosure on D G set will be provided to limit noise.
Solid Waste	Nil	6.0 MT/month ETP sludge is used as manure own agricultural area.

Atmospheric Emissions: Flue gas characteristics (SPM, SO<sub>2</sub>, NO<sub>x</sub>, CO);

Sr. No.	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (g/m <sup>3</sup> )			
1	SPM	SPM Boiler 620		1,6			
2	SO <sub>2</sub>	Boiler	Negligible	Negligible			
3	NO <sub>X</sub>	Boiler/	Negligible	Negligible			
4	СО	Boiler/ Negligible		Boiler/ Negligible	Boiler/ Negligible	Boiler/	Negligible
1	SPM	DG set	Negligible	Negligible			
2	SO2	DG set	171 kg/hr if run at full	171 kg/hr if run at full			
3	NOx	DG set	Negligible	Negligible			
4	СО	DG set	Negligible	Negligible			

Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate	Temp. of Exhaust Gases
Boiler	151	85 m	3.5 m	150 mg/nm3	160°C
DG set	2 <sup>nd</sup>	6.3m	****		440 °C
DG set	3 <sup>rd</sup>	6.3m	*****		440°C

 The proposal has been considered by SEIAA in its 70<sup>th</sup> meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

- No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) PP has to abide by the conditions stipulated by SEAC & SEIAA
- (iv) Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (v) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (vi) Proper Housekeeping programmes shall be implemented.
- (vii) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
- (viii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)
- (ix) Arrangement shall be made that effluent and storm water does not get mixed.
- (x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xi) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.

Green belt shall be developed & maintained around the plant periphery. Green Belt (xiii) Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept. Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning. Occupational health surveillance of the workers shall be done on a regular basis and (xv) record maintained as per Factories Act. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. (xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes. (xviii) The company shall undertake following Waste Minimization Measures: Metering of quantities of active ingredients to minimize waste. •Reuse of by- products from the process as raw materials or as raw material substitutes in other process. · Maximizing Recoveries. Use of automated material transfer system to minimize spillage. Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured. A separate environment management cell with qualified staff shall be set up for (xx) implementation of the stipulated environmental safeguards. Transportation of ash will be through closed containers and all measures should be (xxi) taken to prevent spilling of the ash. (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash. (xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-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 reported to the MPCB & this department. (xxiv) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in -19-

- (xxv) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
- (xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of 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. SO<sub>2</sub>, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxviii)Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.
- (xxix) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
- (xxx) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
- 4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
- The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
- Validity of Environment Clearance: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
- 7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
- The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution)

Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling ) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

 Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Dehli – 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

> (R.A. Rajeev) Principal Secretary, Environment department & MS, SEIAA

#### Copy to:

- Shri, R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
- Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
- The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
- 4. Regional Office, MPCB, Aurnagabad
- Collector, Osmanabad
- IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
- 7. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment department.
- 8. Select file (TC-3).

(EC Uploaded on 16 June, 2014)