



LAXMI ORGANIC INDUSTRIES LTD

Chandermukhi, Third Floor, Nariman Point, Mumbai 400021, India
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LOIL/UII/EC/02
Date- 30th April 2024

To,
The Additional Director(S)
Regional Office, Western Region,
Kendriya Paryavaran bhavan, Link
Road No.-3, Ravi Shankar Nagar,
Bhopal, M.P. 462016

**Sub: - Submission of Compliance to conditions of Environmental Clearance
for our unit Laxmi Organic Industries Ltd Plot No B-2/2, MIDC, Mahad,
Dist- Raigad, Maharashtra.**

**Ref: - Environment Clearance No. – SEAC – 2011/CR-884/TC-2 Dated 02nd February
2017.**

Dear Sir,

With reference to above Environmental Clearance, we are sending herewith the compliance
report along with various other required information with respect to our Unit.

The details given are for the period **October -2023 to March -2024.**

This is for your kind information and records.

Thanking You,

Yours faithfully,

For **Laxmi Organic Industries Ltd.**

Sameer Johri
Unit Head & Sr. V.P. - Manufacturing

Encl: As attached

C.C. - SRO MPCB office, Mahad.



LAXMI ORGANIC INDUSTRIES LTD

Environment Compliance From Oct. 2023 to Mar. 2024

April 08

2024

Submitted by-

M/S. Laxmi Organic Industries Limited

Unit- II. Plot No. B2/2, B3/1/1, B3/1/2,

MIDC, Mahad, Dist. Raigad. 402301

Compliance Report for the condition in the Environment Clearance

Sr. No	Condition and Description		Compliance Status
1	Name of the project	M/s. LAXMI ORGANIC INDUSTRIES LIMITED at Plot No. B-2/2, B-3/1/1, B-3/1/2; B-1/1/2, B-1/2/1 & B-1/3/2, MIDC Mahad, Dist. Raigad, Maharashtra	Noted. No change.
2	Name, address, Email & contact number of the proponent	Name : Mr. A.K. Dudhane, Executive Director & COO Address : LAXMI ORGANIC INDUSTRIES LTD Chandermukhi, 3rd Floor, Nariman Point, Mumbai 400021, India T +91-22-49104444 F +91-22-22853752 www.laxmi.com Email id : dudhane@laxmiorganic.co.in	Noted and complied with.
3	Name of consultant	M/s. ULTRA – TECH Environment consultancy (Lab .MOEF Gazeted)	Noted.
4	Accreditation of consultant (NABET Accreditation)	NABET Accreditation certificate No. NABET/EIA /1417/RA010	Noted.
5	New project /Expansion in existing project /modernization, diversification in existing project	Expansion in existing industrial project	EC and consent to operate obtained expansion in existing plant.
6	If expansion /diversification, whether EC has been obtained for existing project (Enclose the copy with compliance table)	No	Noted and complied with last compliance sent on Dec'21
7	Activity schedule in the EIA Notification	5 (f) - Synthetic organic 1 (d)- Captive Power plant	Noted. No change
8	Area details	Total Plot area in SQM : 1,02,789 sq.mt Built up Area in SQM: 63033 sq.mt	Noted. No change.
9	Name of the Notified industrial area /MIDC	Mahad MIDC Area	--
10	TOR given by SEAC (If yes specify meeting)	TOR points – 98 th SEAC -I meeting dated 27 th April 2015	Noted and complied with.
11	Estimated capital cost of the project (including cost for land ,building, plant & Machinery separately)	Total (Existing + Proposed) Rs. 269.33 Cr.	Noted and complied with.
12	Location details of the project	Latitude : Approx. 18°6'2.93"N	Noted, No

		Longitude: Approx. 73°29'4.98 "E Location : Mahad ,Raigad , Maharashtra Elevation above Mean Sea Level (mtr) : 177.5 m.	change																																															
13	Distance from protected Areas /Critically polluted areas / Eco-sensitive areas / inter-state boundaries	Village Matwan - 2.7 Km away from project site.	Noted, No change																																															
14	Raw materials (Including process chemicals catalysts and additives)	<div>Total (After Expansion)<table><tr><th>Sr. No.</th><th>Name of the raw material</th><th>Qty. (TPD)</th></tr><tr><td></td><td></td><td>Total</td></tr><tr><td>1</td><td>Alcohol</td><td>330</td></tr><tr><td>2</td><td>Chlorine</td><td>24</td></tr><tr><td>3</td><td>Ammonia</td><td>15</td></tr><tr><td>4</td><td>Ethylene Oxide</td><td>158</td></tr><tr><td>5</td><td>Sodium hydroxide</td><td>147</td></tr><tr><td>6</td><td>Amine</td><td>248</td></tr><tr><td>7</td><td>Aniline</td><td>415</td></tr><tr><td>8</td><td>Acetic Acid</td><td>8280</td></tr><tr><td>9</td><td>Acetone</td><td>500</td></tr><tr><td>10</td><td>T-Butanol</td><td>500</td></tr><tr><td>11</td><td>Acetic acid</td><td>3722</td></tr><tr><td>12</td><td>SDS</td><td>3063</td></tr><tr><td>13</td><td>EO</td><td>350</td></tr></table></div>	Sr. No.	Name of the raw material	Qty. (TPD)			Total	1	Alcohol	330	2	Chlorine	24	3	Ammonia	15	4	Ethylene Oxide	158	5	Sodium hydroxide	147	6	Amine	248	7	Aniline	415	8	Acetic Acid	8280	9	Acetone	500	10	T-Butanol	500	11	Acetic acid	3722	12	SDS	3063	13	EO	350	Complied with. All the Raw Material quantities are well within the prescribed limits.		
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16	Process details/ Manufacturing details	The industry is engaged in manufacturing of Diketene derivatives & ketene derivatives & intends to install production facility for Ethyl acetate , EO derivatives and Cogen CPP	Noted. There is no change in Manufacturing Process																																															

17	Rain Water Harvesting (RWH)	Level of ground water table Size & no of RWH Tank & Qty: - Location of RWH: - Size, numbers of recharge pits & Qty: - Budgetary allocation (Capital cost & O/M COST) :-		Not specifically mentioned in EC, however, being complied with.
18	Total Water Requirement	Total Water requirement: Fresh Water (CMD): 3131 m3/d Source: MIDC (Local) Recycled water (CMD): 413 m3/d Use of water: Boiler : 42 m3/d Cooling: 2808 m3/d Process: 245 m3/d Garden: 7 m3/d Domestic: 30 m3/d		Complied with. Average water requirement for last six month 1384 CMD. Details attached in Annexure II
19	Storm water drainage	Natural water drainage pattern: No disturbance Quantity of storm water : ---- Size of SWD : 500 mm dia		Complied with. No disturbance to Natural water drain pattern.
20	Sewage generation and treatment	Amount of Sewage generation (CMD): 25 m3/d Proposed treatment for the sewage : Up to tertiary treatment & reused in process & cooling water make-up		Noted and Complied with.
21	Effluent Characteristic	Effluent characters for ETP-4 (Discharge to CETP)		Complied with. The analysis is done by MoEFCC approved laboratory. All the values are within the permissible limits. Details attached in Annexure iii
	Parameters	Raw Effluent	Treated Effluent Quality (MPCB LIMITS)	
	pH	6-7	6.5-8.5	
	B.O.D	70	Max. 100	
	C.O.D	300	Max. 250	
	T.S.S	200	Max. 100	
	T.D.S	1800	Max. 2100	
	Oil & Grease	8	Max. 10	
	Ammonical Nitrogen	<50	<50	
22	ETP Details	Amount of Effluent generation (CMD) : 585 m3/d Capacity of the ETP (CMD) : 537 m3 Amount of treated effluent recycled (CMD) : 413 m3/d Amount of treated Effluent To CETP : 172 m3/d Amount of water send to the sewer line (CMD):		Complied with. Generated waste water treated in ETP and after treatment disposed to CETP.

		Membership of the CETP (if require) : Yes, Obtained	Annexure IV																		
23	Note on ETP Technology to be used	<p>Existing Effluent treatment plant: Total waste water generated is 228 m3/d. Out of this 100 m3/d is treated in ETP -1 till secondary treatment and discharged to CETP as per MPCB Norms. Balance 128 m3/d is treated by primary, secondary and tertiary treatment and reused in process and as cooling water make-up.</p> <p>Proposed Effluent Treatment Plant: Total waste water generated is 585 m3/d (Existing 228 m3/d+ 357 m3/d additional). 48 m3/d, being generated as reaction water, is recycled directly in the process. 537 m3/d (585-48=537) of effluent will be treated up to tertiary treatment in ETP-1, ETP-2, ETP-3 (new) & ETP-4 (new). Treated effluents, meeting MPCB Norms, will be discharged from existing plot and NOC is issued by CETP to accept 72 m3/d from the new plot.</p>	<p>Noted and complied with.</p> <p>Low temperature Evaporator and Agitated thin film dryer was installed.</p>																		
24	Disposal of ETP Sludge (If applicable)	To be sent to CHWTSDF	<p>Noted and Complied with. ETP Sludge is sent to MWML, for details, please refer Annexure V</p>																		
25	Solid waste Management <table border="1"> <thead> <tr> <th>Non Hazardous waste</th><th>Type of waste</th><th>Total Quantity</th><th>Management</th></tr> </thead> <tbody> <tr> <td rowspan="2">From Domestic activities</td><td>Dry garbage</td><td>34.0 Kg/D</td><td>Handover to the authorized recyclers</td></tr> <tr> <td>Wet Garbage</td><td>49.0 Kg/d</td><td>Vermi composting</td></tr> <tr> <td rowspan="2">From Process</td><td>Coal Ash</td><td>30 MT/D</td><td>To Brick Manufacturers</td></tr> <tr> <td>Plastic Drums/ Containers</td><td>75 Nos./D</td><td>Handover to the authorized recyclers</td></tr> </tbody> </table>		Non Hazardous waste	Type of waste	Total Quantity	Management	From Domestic activities	Dry garbage	34.0 Kg/D	Handover to the authorized recyclers	Wet Garbage	49.0 Kg/d	Vermi composting	From Process	Coal Ash	30 MT/D	To Brick Manufacturers	Plastic Drums/ Containers	75 Nos./D	Handover to the authorized recyclers	<p>Complied with. Annexure VI</p>
Non Hazardous waste	Type of waste	Total Quantity	Management																		
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	Plastic Drums/ Containers	75 Nos./D	Handover to the authorized recyclers																		

Sr. No.	Schedule I Category No. Type	Quantity (MT/M)	Method of Disposal
1	34.3 Chemical sludge from waste water treatment	9	Sent to CHWTSDF
2	26.1 Catalyst from Processing	84	Used as fuel in furnace along with other fuels, after reprocessing.

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Stack emission details

Stack Numbers	1	2	3a	3b	3c
	Existing	Existing	Existing	Existing	Proposed
Attached to	Boiler No 1,2 & 3 (No change) (standby to CPP)	Air exhaust from Pneumatic conveying (No Change)	Ketene Furnace (Additional Stack details as given below)		
Capacity	Boiler No 1: 8 MT/Hr steam Boiler No 2: 6 MT/Hr steam Boiler No 3: 6 MT/Hr Steam	----	3.4 MMKcal/Hr	5 MMKcal/Hr	5 MMKcal/Hr
Fuel type	Boiler No 1: Coal Boiler No 2: FO/Coal Boiler No 3: FO/Coal	----	Coal is gasified to producer gas and used as Gas in the Furnace C-9 as alternative/ support fuel		
Fuel Quantity (Kg/Hr)	Boiler No 1: 27 TPD	----	Coal: 500 kg/hr i.e. producer Gas 2100 m3/hr	Coal: 1100 kg/hr i.e. Producer gas 4600	Coal: 1100 kg/hr i.e. Produce

Noted and complied with.

We had installed Stacks to Boilers and DG set. We are conducting third party Monitoring (MOEF&CC approved Lab) . Detail analyses reports are attached as **Annexure-VII**

				m3/hr	r Gas 4600 m3/hr
	Boiler No 2: FO/Coal 8.3/22 TPD		C-9: 2 KL/D	C-9: 4 KL/D	C-9: 4 KL/D
	Boiler No 3: FO/Coal 8.3/22 TPD				
Material of Construction	MS	MS	MS	MS	MS
Shape	Round	Round	Round	Round	Round
Height. Meters	40	30	30	30	40
Diameter Mtrs	1.2	0.6	0.674	1.1	1.1
Gas quantity Nm3/hr	11156	3000	2645	6010	6010
Gas Temperature oC	140	35	140	140	140
Exit Gas velocity (m/Sec)	7	7	7	7	7
Control equipment preceding the stack	Dust collector and bag filter	Scrubber of Diameter 1200 mm	N.A. since Gas fired		
Nature of pollutants likely to be present in the stack gases such as Cl2, NOx, Sox, TPM etc	SOX, TPM	SOX, TPM	SOX, TPM		
Emission Control system provided	Dust collector and Bag filters	Scrubber of diameter 1200	N.A. since Gas fired		

		mm	
--	--	----	--

Stack Numbers	4	5	6	7
	Existing	Existing	Proposed	Proposed
Attached to	Acid recovery	DG Set (No Change)	DG Set	New Boiler: (4A+B) (Standby to CPP)
Capacity	-----	1010 KVA	1010 KVA	(30+5=35) MT/Hr Steam
Fuel type	-----	Diesel	Diesel	Coal
Fuel Quantity (Kg/Hr)	-----	No continuous requirement. Used only during failure for critical area. Not used for plant	No continuous requirement. Used only during failure for critical area. Not used for plant	Coal: (5455+909= 6364kg/hr)
Material of Construction	MS	MS	MS	MS
Shape	Round	Round	Round	Round
Height. Meters	30	6.3 (above roof) (2 nos)	6.3 (above roof) (2 nos)	50

	Diameter Mtrs	0.2	0.25 * 2 nos	0.25 * 2 nos	1.3	
	Gas quantity Nm3/hr	650	3000	3000	17931	
	Gas Temperature oC	30	160	35	140	
	Exit Gas velocity (m/Sec)	6	7	7	15	
	Control equipment preceding the stack	Scrubber of diameter 600 mm	As per air pollution prevention norms for GD	As per air pollution prevention norms for DG	Dust separators followed by Bag filter/ ESP	
	Nature of pollutants likely to be present in the stack gases such as Cl2, NOx, Sox, TPM etc	SOX, TPM	SOX, TPM	SOX, TPM	CO2, Sox, NOx, SPM	
	Emission Control system provided	Scrubber of diameter 600 mm	As per air pollution prevention norms for DG	As per air pollution prevention norms for DG	Dust separators followed by Bag filter/ ESP	
28	Details of fuel to be used:					Complied with. Fuel quantities are within the EC limits.
	Fuel	Daily Consumption (TPD/KLD)		Calorific Value (Kcals/kg)%	Ash %	
		Existing	Proposed			
	Gas	-	-	-	-	
	Naphtha	-	-	-	-	
	HSD	-	-	-	-	
	Fuel Oil (Furnace Oil)	8.3	No Change	10200	-	
	Coal	54	295	5300	10	
	Lignite	-	-	-	-	
	Other (C-9 PLUS)	5 KLD	2 KLD	10000	-	
	Source of fuel: Domestic (FO & C-9) and Imported (Coal)					
	Mode of Transport of fuel to site: By sea and by road					

29	Energy	<p>Power Supply: Existing power requirement: Connected Load: 4341 kW</p> <p>Proposed power requirement: Connected load: 9025 kW (Proposed) Connected load: 13366 kW (Existing+ Proposed)</p> <p>Maximum Demand: 15723 kW DG Sets: Number and capacity DG sets to be used: 2 No. of 1010 kVA Details of the non-conventional renewable energy proposed to be used: NA</p>	<p>Complied with.</p> <p>Source of power is MSEB. In case of power failure we are using DG set.</p>
30	Green Belt Development	<p>Green belt area (Sq. m.): 11927 sq. mt. Existing no. of trees: 432 Nos. Number, size, age, and species of trees to be cut, trees to be transplanted: Nil</p>	<p>Green belt maintained as prescribed. Additional green belt area being develop at Mahad MIDC areas.</p>
31	Details of pollution Control Systems:		
	Sr. No	Component	Pollution Control System
	1	Air	Scrubber (2 Nos.), dust collector & Bag filter for steam boiler & ESP for CPP & Stack as per MPCB
	2	Water	Domestic effluent to ETP after septic tank. Full-fledged Primary, Secondary, and Tertiary for trade effluent
	3	Noise	Acoustic enclosure will be provided to D.G. Set. The noise levels in the day time shall be maintained 75dB(A) and 70dB(A) during night time. Trees act as a Noise Buffer
	4	Solid Waste	To Authorized agency
			Noted and complied with.
			Noted and complied with; however as per Consent to Operate, separate STP is being provided.
			Noted and complied with. Noise levels monitoring done by third party and meeting the prescribed limits.
			Noted and complied with

								as per the consent conditions.
32	Environment management plan budgetary allocation		Capital cost (with break up) O&M (with break up)					
		CAPITAL COST (RS LACS)			RECURRING COST (RS LACS)			
	Particulars	Existing	Proposed	Total	Existing	Proposed	Total	Noted and complied with. Recurring cost for last 6 months is about 5.23 Cr
	AIR POLLUTION CONTROL	65	25	90	4	2	6	
	WATER POLLUTION	94	144	238	13	15	28	
	NOISE POLLUTION CONTROL	5	5	10	0.1	0.1	0.2	
	ENVIRONMENTAL MONITORING AND MANAGEMENT	1	1	2	1	1	2	
	OCCUPATIONAL HEALTH	3	5	8	0.7	1	1.7	
	GREEN BELT	2	5	7	1.2	1.0	2.2	
TOTAL	170	185	355	20	20	40		
33	EIA submitted (if yes then submit the salient features)		Yes					EIA Submitted as a part of obtaining EC, this EC is accorded after due scrutiny of EIA report by SEIAA Committee.
34	Storage of chemicals (flammable/explosive/hazardous/toxic substance)							Complied with.
	Tank farm no.	Material name	Tank tag no	Storage size	Unit	All the chemicals are stored in respective storage tanks, layout of which are duly approved from		
	TF- 1A	Specially Denatured Spirit (Hydrous Ethyl alcohol)	T- 01	4500	KL			

TF- 1B	Specially Denatured Spirit (Hydrous Ethyl alcohol)	T- 02	4500	KL	DISH Authorities. In addition, periodic EHS inspections are carried out.
TF- 2	Acetic Acid	T- 03	1000	KL	
TF- 2	Acetic Acid	T- 04	1000	KL	
TF- 3	Acetic Anhydride	T- 05	300	KL	
TF- 3	Acetic Anhydride	T- 06	300	KL	
TF- 3	Acetic Anhydride	T- 07	300	KL	
TF- 4A	Diketene	B- 116	20	M3	
TF- 4A	Diketene	B- 26835	3.5	M3	
TF- 4B	Acetic Acid	B- 101- 1	100	M3	
TF- 4B	Acetic Acid	B- 101- 2	100	M3	
TF- 4B	Acetic Acid	B- 101- 4	100	M3	
TF- 5A	Monomethylamine	219	60	M3	
TF- 5A	Monomethylamine	237	30	M3	
TF- 5A	o-Anisidine	200	50	M3	
TF- 5A	o-Toluidine	274	30	M3	
TF- 5A	Aniline	271	25	M3	
TF- 5A	o-Anisidine	272	20	M3	
TF- 5A	o-Chloroaniline	273	10	M3	
TF- 5B	Monomethyl acetoacetamide	T- 1005	100	M3	
TF- 5B	Monomethyl acetoacetamide	26935	10	M3	
TF- 5B	Allyl acetoacetate (AAAE)	28194	20	M3	
TF- 5B	Acetoacetoxyethyl methacrylate (AAEM)	28275	20	M3	
TF- 5B	Monomethyl acetoacetamide	28251	100	M3	
TF- 5C	Aniline	29265	150	M3	
TF- 5C	Methyl acetoacetate (MAAE)	29266	150	M3	
TF- 5C	Methyl acetoacetate (MAAE)	T- 1004	150	M3	
TF- 5C	Dimethyl formamide (DMF)	29248	20	M3	
TF- 5C	Dimethyl formamide (DMF)	29247	10	M3	
TF- 5D	Ethyl acetoacetate (EAAE)	T- 1008	50	M3	
TF- 5D	Tertiary butyl acetoacetate (TBAAE)	T- 1009	50	M3	
TF- 5D	Allyl acetoacetate (AAAE)	T- 1010	50	M3	
TF- 5D	2-Acetoacetoxyethyl methacrylate (AAEM)	T- 1011	50	M3	

	TF- 5D	Methyl acetoacetate (MAAE)	T- 1014	300	M3	
	TF- 6	C- 9	B 138	100	M3	
	TF- 6	Methanol	B- 29108	200	M3	
	TF- 7	Absolute alcohol	B- 29195	50	M3	
	TF- 8	Ethylene oxide	T- 301	10	M3	
	TF- 8	Ethylene oxide	T- 302	10	M3	
	TF- 8	Ethylene oxide	T- 303	10	M3	
	TF- 9	Specially Denatured Spirit (Hydrous Ethyl alcohol)	T- 08	1000	M3	
	TF- 9	Specially Denatured Spirit (Hydrous Ethyl alcohol)	T- 09	1000	M3	
	TF- 10	Acetic acid	T- 10	1000	M3	
	TF- 10	Acetic acid	T- 11	1000	M3	
	TF- 11	Ethyl acetate	T- 12	500	M3	
	TF- 11	Acetyl butyl acetate	T- 14	300	M3	
	TF- 11	Tertiary butyl acetate	T- 13	500	M3	
	TF- 11	Tertiary butyl acetate	T- 16	300	M3	
	TF- 12	EO Derivatives	T- 15	300	M3	
	TF- 12	Ethyl acetate	T- 17	300	M3	
	TF- 12	Ethyl acetate	T- 18	300	M3	
		Coal		2000	MT	
3.	The proposal has been considered by SEIAA in its 102 nd meeting decided to accord environment clearance to the said project under the provision of Environment Impact Assessment Notification 2006 subject to implementation of the following terms and conditions:					Noted.
i	PP to achieve Zero Liquid Discharge; PP Shall ensure that there is no increase in the effluent load to CETP.					Complied with. The discharge to CETP is kept under prescribed limits.
ii	73 TPH boiler should have stack height of 68 M and flue gases shall be passed through an ESP of 99.9% efficiency before being led into the 68M stack.					Not applicable
iii	No additional land shall be used / acquired for any activity of the Project without obtaining proper permission.					Complied with
iv	PP to take utmost precautions for the health and safety of the people working in the unit as also for protecting the environment.					Noted and complied with.
v	Proper housekeeping program shall be implemented.					Complied with. Weekly housekeeping and periodic site cleaning /

		housekeeping program are implemented.
vi	In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put of operation and shall not be restarted until the desired efficiency has been achieved.	Complied with as per SOP.
vii	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from the DG Set. (if applicable)	Stacks of 6.3 M height are provided to both the DG Sets as per the Consent to Operate.
viii	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge groundwater.	Noted and being complied with.
ix	Arrangement shall be made that effluent and storm water doesn't not get mixed.	Complied with, separate storm water drain drains are provided.
x	Periodic monitoring of ground water to be done. Results to be analyzed to ascertain any changes in ground water quality. Results to be submitted to MPCB.	Complied with, monthly ground water monitoring being done by using third party accredited laboratory, for details, please refer Annexure VIII
xi	Noise level shall be maintained as per the standards, For people working in the high noise area, requisite protective equipotent like ear plugs etc. shall be provided.	Noise levels are monitored by using third party agency, Employees working in high noise areas have been provided with ear protectors.
xii	The overall noise levels in and around the plant area 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 the Environment (Protection) Act 1986 Rules 1989.	Noted and complied with. For details, please refer Annexure IX
xiii	Green belt shall be developed and maintained around the plant periphery. Green Belt development shall be carried out considering CPCB guidelines	Noted, Additional green

	including selection of plant species and in consultation with local DFO/Agriculture Dept.	belt area being develop at Mahad MIDC areas.
xiv	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall be installed at the strategic places for early detection devices shall also be installed at strategic places for early detection and warning.	Complied with as per the Risk Assessment Report. All the safety measures are periodically monitored. Fixed detectors are provided for Chlorine, Ammonia & Ethylene Oxide for early detection of any leaks or releases.
xv	Occupational Health Surveillance of the worker shall be done on regular basis as per the Factory Act	Complied with. Six monthly medical examination is done for all employees (including contract employees) as per the Factories Act.
xvi	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Noted and Complied with. Fire Protection System is provided as per the FIRE NOC duly approved by MIDC.
xvii	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with Hazardous Wastes Management and handling Rules 2003 amended. Authorization from the MPCB shall be obtained for collection, treatment, storage, disposal of hazardous wastes.	Complied with as per the conditions stipulated under Consent to Operate.
xviii	The company shall undertake following waste Minimization Measures	Noted and

	Metering of quantities of active ingredients to minimize wastes	complied with. Sludge being used as fuel to furnace as per the Consent.
	Reuse of by-products from the process as raw materials or as raw material substitutes in other process	
	Maximize recoveries.	
	Use of automated material transfer system to minimize spillage	
xix	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.	Six monthly Table Top Exercises / Mock drills are conducted.
xx	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied with. Dedicated ETP & EHS Department is set up headed by qualified staff and manned round the clock is available.
xxi	Separate funds shall be allocated for implementation of environmental protection measures / EMP 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 reported to the MPCB and this department.	Noted and complied with. Year-wise expenditure is reported to MPCB through annual environmental statement.
xxii	The project shall advertise at least 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 the clearance letter are available with the MPCB and may also see at website at http://ec.maharashtra.gov.in	Noted and complied.
xxiii	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the MPCB and this department on 1st June and 1st Dec. of each calendar year.	Complied with, Last six monthly compliance report submitted on 17 th Dec 2021.
xxiv	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.	Noted, and complied.
xxv	The proponent shall upload the status of compliance of the stipulated EC	Noted and

	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 ₂ , NO _x (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.	complied with. (previous submitted on 17 th Dec 2021)
xxvi	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Noted and complied with. (17 th Dec 2021)
xxvii	The environmental statement for each financial year ending 31st March in Form V as is undated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environmental Protection Rules 1986 as amended subsequently, shall also be put on the website of the company, along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied with. (submitted on 28 th Sept. 2021)
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 honorable 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.	Noted and complied with.
5.	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.	Noted.
6.	The environmental clearance accorded shall be valid for a period of 7 years as per MoEF & CC notification dated 29th April 2015 to start of production operations.	Noted.
7.	In case of deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh clearance should be made to the department to assess the adequacy of the conditions imposed and to incorporate additional environmental protection measures required, if any.	Noted and complied with,
8.	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, the public Liability Insurance Act.1991 and its amendments.	Noted and complied with.
9.	Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act 2010.	Noted.

Annexure 01									
Production Details									
Production Data		EC Quantity	Consent Quantity	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Ester/ Ester Derivatives (TPM)	1300	1300	1174	846	1046	1091	882	853
2	Amide/ Amide Derivatives (TPM)	625	625	286	269	438	620	623	624
3	Arylides/ Arylides Derivatives (TPM)	780	780	749	621	763	615	670	653
4	Diketene (TPM)	1850	1850	1502	1330	1487	1383	1430	1339
5	Acetic anhydride (TPM)	3000	3000	1160	1014	1557	1339	1478	1404
6	Ketene Derivatives (TPM)	1600	1600	59	48	61	68	73	61
7	Ethylene oxide derivatives (TPM)	500	500	156	193	177	87	227	213
8	Sodium acetate (TPM)	500	500	0	0	0	0	0	0
9	Isolated Storage of Ethyl Alcohol For captive consumption only (TPM)	8500	8500	8500	8500	8500	8500	8500	8500

Note:- From Octomer 2023 to March 2024 production quantity is well within the EC/Consent Limits.

Annexure 02

Water Consumption Details Oct. 2023 to Mar. 2024 (CMD)

MIDC Water Consumption		EC/Consented Quantity	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Industrial Cooling	2829 kl/day	1355	1273	1250	1250	1230	1087
2	Domestic	30 kl/day	29	30	29	29	30	28
3	Processing whereby water gets polluted	245 kl/day	180	163	178	209	194	208
4	Gardening	7 kl/day	7	7	7	7	7	7

Annexure - 03

TEST REPORT

Sample ID : E/02/24/5128	Report No. E/02/24/5128	Report Date	03/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date - Receipt of Sample	26/02/2024
Sample Quantity / Packing	10 L x 1 no. plastic can 5 L x 1 no. plastic can 1 L x 1 no. glass bottle 250ml x 1 No.Sterile Bottle	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	02/03/2024

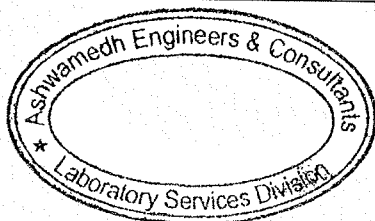
Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
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Chemical Testing; Group: Pollution & Environment

Physical & Chemical Parameters

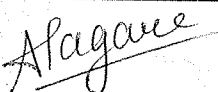
1	pH (at 25°C)	7.58	5.5 to 9.0	-	IS 3025 (Part II): 2017
2	Total Suspended Solids	62	Not to exceed 100	mg/L	IS 3025 (Part 17) Amds.I: 2017
3	Biochemical Oxygen Demand (3 days, 27°C)	30	Not to exceed 100	mg/L	IS 3025 (Part 44): 1993
4	Chemical Oxygen Demand	80	Not to exceed 250	mg/L	APHA,24th Ed.,5220,B,544: 2023
5	Oil & Grease	BLQ (LOQ:1)	Not to exceed 10	mg/L	APHA,24th Ed.,5520,B,572: 2023
6	Total Dissolved Solids	590	Not to exceed 2100	mg/L	IS 3025 (Part 16): 2023
7	Chloride (as Cl)	114	Not to exceed 600	mg/L	IS 3025 (Part 32): 2017
8	Sulphate (as SO ₄)	130	Not to exceed 1000	mg/L	IS 3025 (Part 24)/Sec-I: 2022
9	Hexavalent Chromium (as Cr+6)	BLQ (LOQ:0.02)	Not specified	mg/L	IS 3025 (Part 52): 2019
10	Ammonical Nitrogen (as NH ₃ -N)	16.8	Not to exceed 50	mg/L	APHA,24th Ed.,4500- NH ₃ , F,429: 2023
11	Nitrate (as NO ₃)	8.6	Not specified	mg/L	APHA,24th Ed.,4500- NO ₃ , B,434: 2023
12	Sulphide (as H ₂ S)	BLQ (LOQ:0.025)	Not specified	mg/L	APHA,24th Ed.,4500- S ₂ ,C8D, 512: 2023
13	Phosphate (as P)	2	Not specified	mg/L	APHA,24th Ed.,4500- P,E,486: 2023
14	Cyanide (as CN)	BLQ (LOQ:0.001)	Not specified	mg/L	APHA,24th Ed.,4500- CN, C8E,3708372: 2023
15	Phenolic Compounds (as C ₆ H ₅ OH)	BLQ (LOQ:0.01)	Not specified	mg/L	Clause 6 of IS 3025 (Part 43): 1992
16	Total Nitrogen (as N)	4.6	Not specified	mg/L	APHA,24th Ed.,4500,A,415: 2023
17	Percent Sodium	27.6	Not to exceed 60	%	AEC/C/SAP/W/E-56, Issue No.4, Issue date:02.05: 2023
18	Arsenic (as As)	BLQ (LOQ:0.005)	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
19	Total Chromium (as Cr)	BLQ (LOQ:0.02)	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

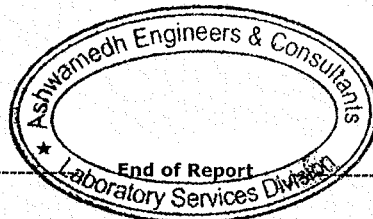
Akshata
Akshata Pagare
Senior Analyst (Biological)
Reviewed & Authorised by

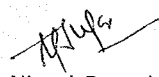


Ninad
Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Sample ID : E/02/24/5128		Report No. E/02/24/5128		Report Date		03/03/2024	
Sr.No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method		
20	Cadmium (as Cd)	BLQ (LOQ:0.002)	Not specified	mg/L	IS 3025 (Part 2) : 2019 / ISO 11885: 2007		
21	Copper (as Cu)	BLQ (LOQ:0.02)	Not specified	mg/L	IS 3025 (Part 2) : 2019 / ISO 11885: 2007		
22	Lead (as Pb)	BLQ (LOQ:0.008)	Not specified	mg/L	IS 3025 (Part 2) : 2019 / ISO 11885: 2007		
23	Nickel (as Ni)	BLQ (LOQ:0.01)	Not specified	mg/L	IS 3025 (Part 2) : 2019 / ISO 11885: 2007		
24	Mercury (as Hg)	BLQ (LOQ:0.0008)	Not specified	mg/L	IS 3025 (Part 2) : 2019 / ISO 11885: 2007		
25	Zinc (as Zn)	BLQ (LOQ:0.05)	Not specified	mg/L	IS 3025 (Part 2) : 2019 / ISO 11885: 2007		
26	Bioassay Test	100% Survival fish after 96 hours in 100% of Effluent	Not specified	-	IS 6582 (Part I): 1971		
Biological Testing; Group: Environment & Pollution							
Bacteriological Parameters							
27	Total Coliforms	4.5	Not specified	MPN Index /100ml	APHA, 24th Ed. 9221-B, 1134: 2023		
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification							


Akshata Pagare
Senior Analyst (Biological)
Reviewed & Authorised by




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Technical Manager (Chemical)
Reviewed & Authorised by

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



Annexure 04

Effluent Details m3/day (Oct.2023 to Mar. 2024)

Sr. No	Source	EC condition	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Treated effluent recycle (m3/day)	413 M3/D	191	174	221	243	252	225
2	Discharge to CETP (m3/day)	172 M3/D	73	94	45	21	10	11

Annexure 05								
Details of Hazardous waste disposal MT/M (Oct. 2023 to Mar.2024)								
Sr. No.	Sludge Category	EC Quantity	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	ETP Sludge	9 MT/M	7.8	8	8.2	8.1	8.3	8.2

Annexure 06

Details of Non-Hazrdous waste disposal MT/M (Oct. 2023 to Mar. 2024)

Sr. No.	Sludge Category	EC Quantity	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Coal Ash	30 mt/day	9	10	17	10	12	10



AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/5815	Report No. AA/02/24/5815	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Security Gate No.1	Date - Sampling	22/02/2024 to 23/02/2024
Sample Quantity / Packing	PM ₁₀ : Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date - Receipt of Sample	26/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

Meteorological Data / Environmental Conditions

Average Wind Velocity 8.2 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 73/61%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

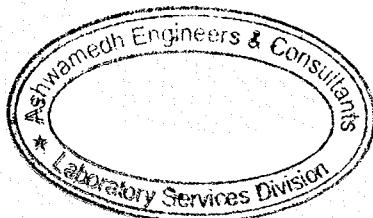
Sulphur Dioxide (SO ₂)	10.8	80	µg/m ³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO ₂)	31.6	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	80	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	39	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Ozone (O ₃)	25.7	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 4II, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999
Carbon Monoxide (CO)	1.12	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I,36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	BLQ (LOQ:1)	5	µg/m ³	IS 5182 (Part II): 2017
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part I2): 2014
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.4, Jun: 1999
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999

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

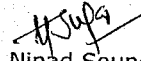
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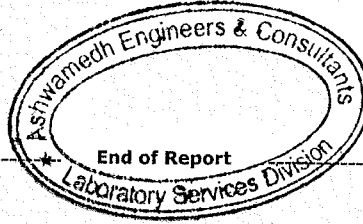
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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Sample ID : AA/02/24/5815	Report No. AA/02/24/5815	Report Date	02/03/2024
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/5816	Report No. AA/02/24/5816	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Security Gate No.2	Date - Sampling	22/02/2024 to 23/02/2024
Sample Quantity / Packing	PM ₁₀ : Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date - Receipt of Sample	26/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

Meteorological Data / Environmental Conditions

Average Wind Velocity 8.2 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 73/61%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
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Chemical Testing; Group: Atmospheric Pollution

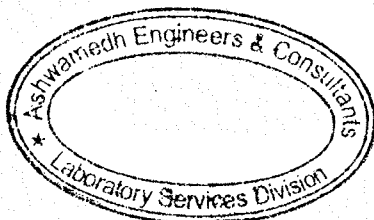
Sulphur Dioxide (SO ₂)	13.2	80	µg/m ³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO ₂)	33.7	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	83	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	42	60	µg/m ³	CPCB Guideline, Volume 1,36/2012-13, Page No.15:2013
Ozone (O ₃)	31.1	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2, Jun: 1999
Carbon Monoxide (CO)	1.66	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I,36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	BLQ (LOQ:1)	5	µg/m ³	IS 5182 (Part II): 2017
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part I2): 2014
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.4, Jun: 1999
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2, Jun: 1999

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

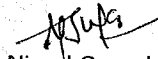
TWA Time Weighted Average

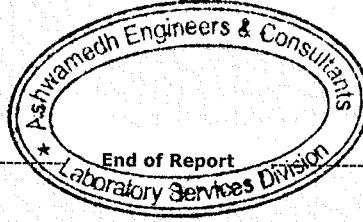
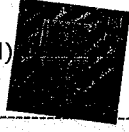
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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Technical Manager (Chemical)
Reviewed & Authorised by



Sample ID : AA/02/24/5816	Report No. AA/02/24/5816	Report Date	02/03/2024
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Technical Manager (Chemical)
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/5817	Report No. AA/02/24/5817	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Alcohol Tank Farm	Date - Sampling	22/02/2024 to 23/02/2024
Sample Quantity / Packing	PM ₁₀ : Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date - Receipt of Sample	26/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

Meteorological Data / Environmental Conditions

Average Wind Velocity 8.2 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 73/61%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
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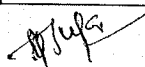
Chemical Testing; Group: Atmospheric Pollution

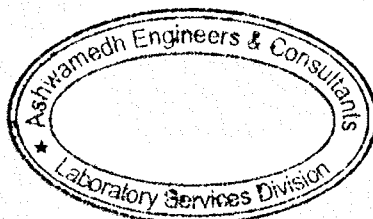
Sulphur Dioxide (SO ₂)	9.6	80	µg/m ³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO ₂)	29.4	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	72	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	31	60	µg/m ³	CPCB Guideline, Volume 1,36/2012-13, Page No.15:2013
Ozone (O ₃)	23	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2, Jun: 1999
Carbon Monoxide (CO)	0.96	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I,36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	BLQ (LOQ:1)	5	µg/m ³	IS 5182 (Part II): 2017
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part 12): 2014
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.4, Jun: 1999
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2, Jun: 1999

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

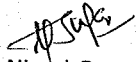
TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

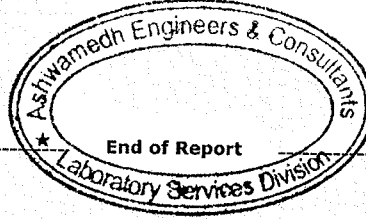

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Sample ID : AA/02/24/5817	Report No. AA/02/24/5817	Report Date	02/03/2024
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/02/24/5818	Report No. AA/02/24/5818	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near ETP Plant	Date - Sampling	22/02/2024 to 23/02/2024
Sample Quantity / Packing	PM ₁₀ : Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date - Receipt of Sample	26/02/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

Meteorological Data / Environmental Conditions

Average Wind Velocity 8.2 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 73/61%	Temperature (Max./Min.): 29/26°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

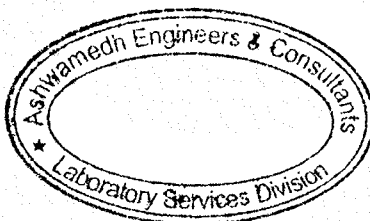
Sulphur Dioxide (SO ₂)	8.4	80	µg/m ³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO ₂)	27.3	80	µg/m ³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	75	100	µg/m ³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	35	60	µg/m ³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Ozone (O ₃)	21.6	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999
Carbon Monoxide (CO)	1	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I,36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	BLQ (LOQ:1)	5	µg/m ³	IS 5182 (Part II): 2017
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part 12): 2014
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.4, Jun: 1999
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999

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

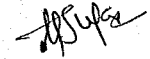
TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

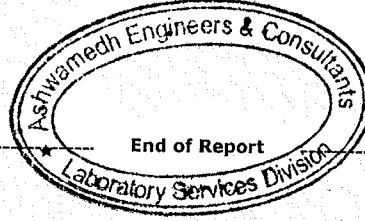
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Technical Manager (Chemical)
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Sample ID : AA/02/24/5818	Report No. AA/02/24/5818	Report Date	02/03/2024
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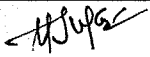
Sample ID : SA/02/24/5863	Report No. SA/02/24/5863	Report Date	01/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	29/02/2024

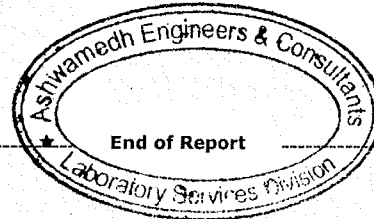
Stack Details	
~ Stack Identity	Stack-2
~ Stack attached to	10 TPH Boiler-3
~ Material of construction	M.S
~ Stack height above ground level	40 m
~ Stack diameter	1.2 m
~ Stack shape at top	Round
~ Type of Fuel	Coal
~ Fuel Consumption	1125 kg/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	124	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.33	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	21769	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	25	50	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	25.1	Not specified	ppm	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	34.3	270	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	43.2	Not specified	mg/Nm ³	IS 11255 (Part 7) : 2017

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

Note: Sample ID SA/02/24/5863 bears two Test Reports - SA/02/24/5863 and SA/02/24/5863N


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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5863	Report No. SA/02/24/5863N	Report Date	01/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	29/02/2024

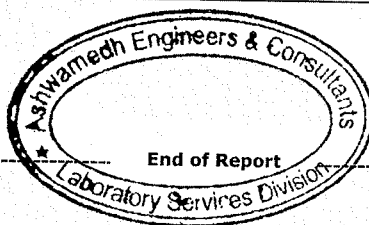
Stack Details	
~ Stack Identity	Stack-2
~ Stack attached to	10 TPH Boiler-3
~ Material of construction	M.S
~ Stack height above ground level	40 m
~ Stack diameter	1.2 m
~ Stack shape at top	Round
~ Type of Fuel	Coal
~ Fuel Consumption	1125 kg/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Chlorine (Cl ₂)	BLQ (LOQ:0.1)	Not specified	ppm	IS 5182 (Part XIX): 2019
Acid Mist (as HCl)	BLQ (LOQ:1)	Not specified	mg/Nm ³	Titrimetric Method

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

Note: Sample ID SA/02/24/5863 bears two Test Reports - SA/02/24/5863 and SA/02/24/5863N

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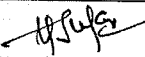
Sample ID : SA/02/24/5864	Report No. SA/02/24/5864	Report Date	01/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	29/02/2024

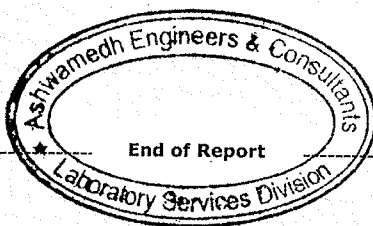
Stack Details	
~ Stack Identity	Stack-3
~ Stack attached to	33 TPH Boiler
~ Material of construction	M.S
~ Stack height above ground level	50 m
~ Stack diameter	1.2 m
~ Stack shape at top	Round
~ Type of Fuel	Coal
~ Fuel Consumption	6363 kg/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	145	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.61	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	21465	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	32	50	mg/Nm ³	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO ₂)	54.6	Not specified	ppm	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO ₂)	73.7	1527	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO ₂)	48.4	Not specified	mg/Nm ³	IS 11255 (Part 7): 2017

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

Note: Sample ID SA/02/24/5864 bears two Test Reports - SA/02/24/5864 and SA/02/24/5864N


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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5864	Report No. SA/02/24/5864N	Report Date	01/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	29/02/2024

Stack Details

~ Stack Identity	Stack-3
~ Stack attached to	33 TPH Boiler
~ Material of construction	M.S
~ Stack height above ground level	50 m
~ Stack diameter	1.2 m
~ Stack shape at top	Round
~ Type of Fuel	Coal
~ Fuel Consumption	6363 kg/h

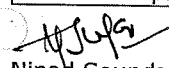
Parameter	Result	Limits as per MPCB Consent	Unit	Method
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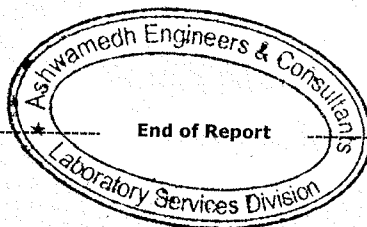
Chemical Testing; Group: Atmospheric Pollution

Chlorine (Cl ₂)	BLQ (LOQ:0.1)	Not specified	ppm	IS 5182 (Part XIX): 2019
Acid Mist (as HCl)	BLQ (LOQ:1)	Not specified	mg/Nm ³	Titrimetric Method

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

Note: Sample ID SA/02/24/5864 bears two Test Reports - SA/02/24/5864 and SA/02/24/5864N


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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5865	Report No. SA/02/24/5865	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle HC, CO: 1 x 1 no. bladder	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

Stack Details				
~ Stack Identity	Stack-4			
~ Stack attached to	Ketene Furnace			
~ Material of construction	M.S			
~ Stack height above ground level	30 m			
~ Stack diameter	0.674 m			
~ Stack shape at top	Round			
~ Type of Fuel	Producer Gas & C-9			
~ Fuel Consumption	500 kg/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method

Chemical Testing; Group: Atmospheric Pollution

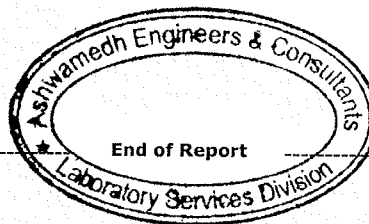
Flue Gas Velocity	7.88	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	5805	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	13	50	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	6.6	Not specified	ppm	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	2.4	7.2	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	41.6	Not specified	mg/Nm ³	IS 11255 (Part 7) : 2017

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

Note: Sample ID SA/02/24/5865 bears two Test Reports - SA/02/24/5865 and SA/02/24/5865N

HS/24

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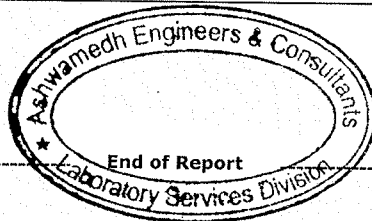
STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5865	Report No. SA/02/24/5865N	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle HC, CO: 1 x 1 no. bladder	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

Stack Details				
~ Stack Identity	Stack-4			
~ Stack attached to	Ketene Furnace			
~ Material of construction	M.S			
~ Stack height above ground level	30 m			
~ Stack diameter	0.674 m			
~ Stack shape at top	Round			
~ Type of Fuel	Producer Gas & C-9			
~ Fuel Consumption	500 kg/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	210	-	°C	IS 11255 (Part 3) : 2018
Carbon Monoxide (CO)	1.32	Not specified	mg/Nm ³	Intersociety Committee Methods of Air sampling & Analysis (AWMA) 3rd Ed. Method No.128, page No.298
Chlorine (Cl ₂)	0.37	Not specified	ppm	IS 5182 (Part XIX): 2019
Acid Mist (as HCl)	BLQ (LOQ:1)	Not specified	mg/Nm ³	Titrimetric Method
Hydrocarbons (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5182 (Part 17):1979
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				
Note: Sample ID SA/02/24/5865 bears two Test Reports - SA/02/24/5865 and SA/02/24/5865N				

HSYs

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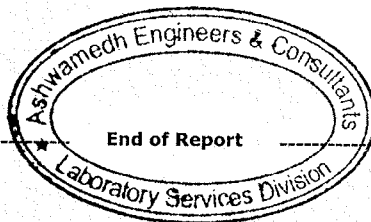


STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/3530	Report No. SA/02/24/3530N	Report Date	27/02/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	Smoke	Date - Sampling	22/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	-	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	26/02/2024

Stack Details				
~ Stack Identity	Stack-4			
~ Stack attached to	Ketene Furnace			
~ Material of construction	M.S			
~ Stack height above ground level	30 m			
~ Stack diameter	0.674 m			
~ Stack shape at top	Round			
~ Type of Fuel	Producer Gas & C-9			
~ Fuel Consumption	500 kg/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.32	Not specified	meter	-

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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5866	Report No. SA/02/24/5866	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

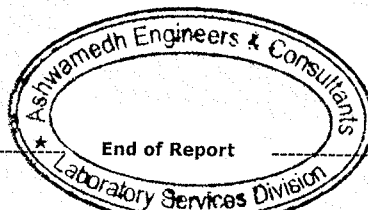
Stack Details	
~ Stack Identity	Stack-5
~ Stack attached to	Keten Furnace
~ Material of construction	M.S
~ Stack height above ground level	30 m
~ Stack diameter	1.1 m
~ Stack shape at top	Round
~ Type of Fuel	Producer Gas & C-9
~ Fuel Consumption	1100 kg/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	156	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	7.45	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	16854	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	14	50	mg/Nm ³	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO ₂)	11.1	Not specified	ppm	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO ₂)	11.8	15.84	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO ₂)	50.2	Not specified	mg/Nm ³	IS 11255 (Part 7): 2017

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

Note: Sample ID SA/02/24/5866 bears two Test Reports - SA/02/24/5866 and SA/02/24/5866N

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Sample ID : SA/02/24/5866	Report No. SA/02/24/5866N	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Hcl: 30 ml x 2 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

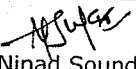
Stack Details				
~ Stack Identity	Stack-5			
~ Stack attached to	Keten Furnace			
~ Material of construction	M.S			
~ Stack height above ground level	30 m			
~ Stack diameter	1.1 m			
~ Stack shape at top	Round			
~ Type of Fuel	Producer Gas & C-9			
~ Fuel Consumption	1100 kg/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method

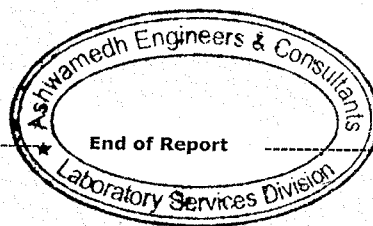
Chemical Testing; Group: Atmospheric Pollution

Carbon Monoxide (CO)	1.68	Not specified	mg/Nm ³	Intersociety Committee Methods of Air sampling & Analysis.(AWMA) 3rd Ed. Method No.128,page No.296
Chlorine (Cl ₂)	1	Not specified	mg/Nm ³	IS 5182 (Part XIX): 2019
Acid Mist (as HCl)	BLQ (LOQ:1)	Not specified	mg/Nm ³	Titrimetric Method
Hydrocarbons (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5182 (Part 17):1979

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

Note: Sample ID SA/02/24/5866 bears two Test Reports - SA/02/24/5866 and SA/02/24/5866N


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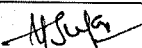


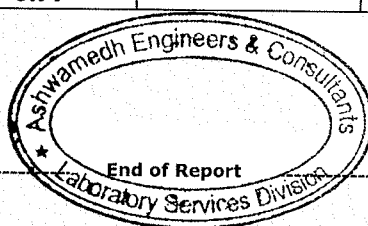
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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/3531	Report No. SA/02/24/3531N	Report Date	27/02/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	Smoke	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	-	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	26/02/2024

Stack Details				
~ Stack Identity	Stack-5			
~ Stack attached to	Ketene Furnace			
~ Material of construction	M.S			
~ Stack height above ground level	30 m			
~ Stack diameter	1.1 m			
~ Stack shape at top	Round			
~ Type of Fuel	Producer Gas & C-9			
~ Fuel Consumption	1100 kg/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.77	Not specified	meter	-


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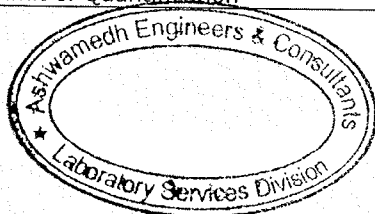
Sample ID : SA/02/24/3532	Report No. SA/02/24/3532N	Report Date	01/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ , Acid Mist (HCl): 30 ml x 2 no. plastic bottle	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	29/02/2024

Stack Details	
~ Stack Identity	Stack-7
~ Stack attached to	Acid Recovery Plant
~ Material of construction	M.S
~ Stack height above ground level	30 m
~ Stack diameter	0.6 m
~ Stack shape at top	Round
~ Type of Fuel	Electric
~ Fuel Consumption	-

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	48	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	5.72	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	5368	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	12	Not specified	mg/Nm ³	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO ₂)	2.18	Not specified	ppm	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO ₂)	27.5	Not specified	mg/Nm ³	IS 11255 (Part 7): 2017
Chlorine (Cl ₂)	BLQ (LOQ:0.1)	Not specified	ppm	IS 5182 (Part XIX): 2019
Lead (as Pb)	0.025	Not specified	mg/Nm ³	US EPA, Method 29
Acid Mist (as HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
Nickel (as Ni)	0.021	Not specified	mg/Nm ³	US EPA, Method 29
Arsenic (as As)	0.035	Not specified	mg/Nm ³	US EPA, Method 29
Cadmium (as Cd)	BLQ (LOQ:0.0003)	Not specified	mg/Nm ³	US EPA, Method 29
Chromium (as Cr)	0.032	Not specified	mg/Nm ³	US EPA, Method 29
Copper (as Cu)	0.038	Not specified	mg/Nm ³	US EPA, Method 29
Iron (as Fe)	1.23	Not specified	mg/Nm ³	US EPA, Method 29
Zinc (as Zn)	BLQ (LOQ:0.007)	Not specified	mg/Nm ³	US EPA Method no. M-29

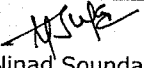
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

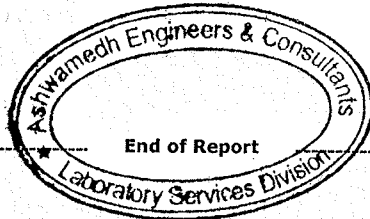
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Sample ID : SA/02/24/3532	Report No. SA/02/24/3532N	Report Date	01/03/2024
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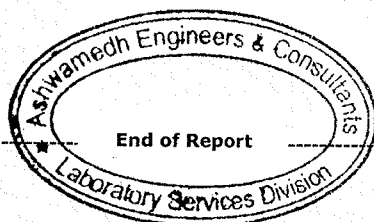
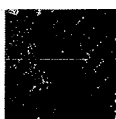
Sample ID : SA/02/24/3533	Report No. SA/02/24/3533N	Report Date	06/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	Al, Co: 1 x no. thimble VOC: 1 x 2 no. Charcoal tube	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	-	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	05/03/2024

Stack Details	
~ Stack Identity	Stack-7
~ Stack attached to	Acid Recovery Plant
~ Material of construction	M.S
~ Stack height above ground level	30 m
~ Stack diameter	0.6 m
~ Stack shape at top	Round
~ Type of Fuel	Electric
~ Fuel Consumption	-

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Aluminium (as Al)	BLQ (LOQ:0.001)	Not specified	mg/Nm ³	By ICP-OES
Aniline	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC
Cobalt (as Co)	BLQ (LOQ:0.007)	Not specified	mg/Nm ³	By ICP-OES
Diketene	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC
O-Anisidine	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC
O-Tolundine	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC

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


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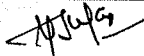
Sample ID : SA/02/24/5867	Report No. SA/02/24/5867	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

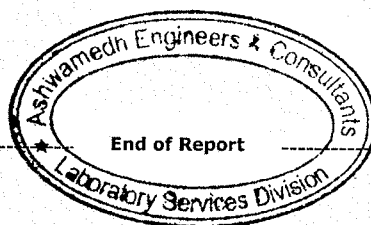
Stack Details	
~ Stack Identity	Stack-8
~ Stack attached to	DG 1010KVA
~ Material of construction	M.S
~ Stack height above ground level	6.3 m
~ Stack diameter	0.40 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	150 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Velocity	7.27	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1856	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	35	50	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	76.7	Not specified	ppm	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	8.95	72	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	41.6	Not specified	mg/Nm ³	IS 11255 (Part 7) : 2017

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

Note: Sample ID SA/02/24/5867 bears two Test Reports - SA/02/24/5867 and SA/02/24/5867N


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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5867	Report No. SA/02/24/5867N	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

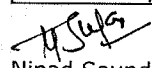
Stack Details

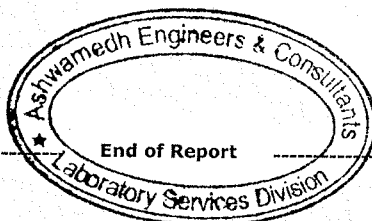
~ Stack Identity	Stack-8
~ Stack attached to	DG 1010KVA
~ Material of construction	M.S
~ Stack height above ground level	6.3 m
~ Stack diameter	0.40 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	150 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	240	-	°C	IS 11255 (Part 3) : 2018
Carbon Monoxide (CO)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	Intersociety Committee Methods of Air sampling & Analysis (AWMA) 3rd Ed. Method No.128, page No.296
Hydrocarbons (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5182 (Part 17):1979

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

Note: Sample ID SA/02/24/5867 bears two Test Reports - SA/02/24/5867 and SA/02/24/5867N


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Engineers & Consultants

Laboratory Services Division

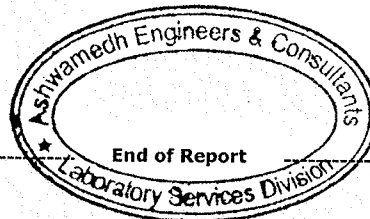
Ashwamedh Engineers & Consultants
 Survey No. 102, Plot No.26, Wadala Pathardi Road,
 Indira Nagar, Nashik - 422009, Maharashtra, India
 (Near Guru Gobind Singh School, Near Pandav Nagari,
 Turn at Sai Mandir Chowk / Samrat Sweet Turning)
 sales@ashwamedh.net +91-253-2392225

STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/3534	Report No. SA/02/24/3534N	Report Date	27/02/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	Smoke	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	-	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	26/02/2024

Stack Details				
~ Stack Identity	Stack-8			
~ Stack attached to	DG 1010 KVA			
~ Material of construction	M.S			
~ Stack height above ground level	6.3 m			
~ Stack diameter	0.40 m			
~ Stack shape at top	Round			
~ Type of Fuel	Diesel			
~ Fuel Consumption	150 L/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.069	Not specified	meter	-

Ninad Soundankar
 Technical Manager (Chemical)
 Reviewed & Authorised by



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AEC/F/REP/1-E



STACK EMISSION MONITORING REPORT

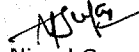
Sample ID : SA/02/24/5868	Report No. SA/02/24/5868	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024

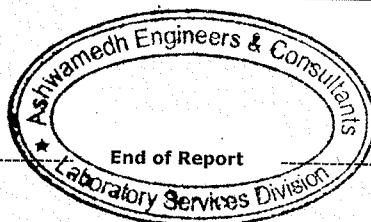
Stack Details	
~ Stack Identity	Stack-9
~ Stack attached to	DG 1010 KVA
~ Material of construction	M.S
~ Stack height above ground level	6.3 m
~ Stack diameter	0.25 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	150 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Velocity	17.14	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	1696	-	Nm ³ /h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	33	50	mg/Nm ³	IS 11255 (Part 1) : 2019
Sulphur Dioxide (SO ₂)	88.9	Not specified	ppm	IS 11255 (Part 2) : 2019
Sulphur Dioxide (SO ₂)	9.48	72	kg/d	IS 11255 (Part 2) : 2019
Oxides of Nitrogen (NO ₂)	46.9	Not specified	mg/Nm ³	IS 11255 (Part 7) : 2017

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

Note: Sample ID SA/02/24/5868 bears two Test Reports - SA/02/24/5868 and SA/02/24/5868N


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STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/5868	Report No. SA/02/24/5868N	Report Date	02/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 x 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	01/03/2024


Stack Details

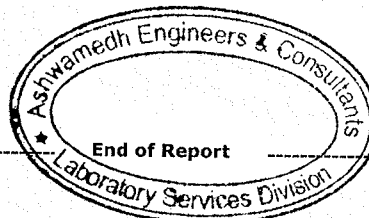
~ Stack Identity	Stack-9
~ Stack attached to	DG 1010 KVA
~ Material of construction	M.S
~ Stack height above ground level	6.3 m
~ Stack diameter	0.25 m
~ Stack shape at top	Round
~ Type of Fuel	Diesel
~ Fuel Consumption	150 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	245	-	°C	IS 11255 (Part 3) : 2018
Carbon Monoxide (CO)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	Intersociety Committee Methods of Air sampling & Analysis.(AWMA) 3rd Ed. Method No.128,page No.296
Hydrocarbons (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5182 (Part 17):1979

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

Note: Sample ID SA/02/24/5868 bears two Test Reports - SA/02/24/5868 and SA/02/24/5868N


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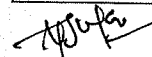


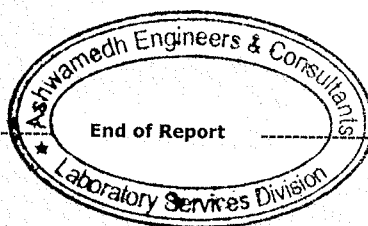
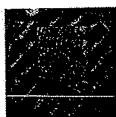


STACK EMISSION MONITORING REPORT

Sample ID : SA/02/24/3535	Report No. SA/02/24/3535N	Report Date	27/02/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	Smoke	Date - Sampling	23/02/2024
		Date - Receipt of Sample	26/02/2024
Sampling Procedure	-	Date - Start of Analysis	26/02/2024
Order Reference	WO No. 4300013656 Dated 09.05.2023	Date - Completion of Analysis	26/02/2024

Stack Details				
~ Stack Identity	Stack-9			
~ Stack attached to	DG 1010 KVA			
~ Material of construction	M.S			
~ Stack height above ground level	6.3 m			
~ Stack diameter	0.25 m			
~ Stack shape at top	Round			
~ Type of Fuel	Diesel			
~ Fuel Consumption	150 L/h			
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.80	Not specified	meter	-


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Annexure-08

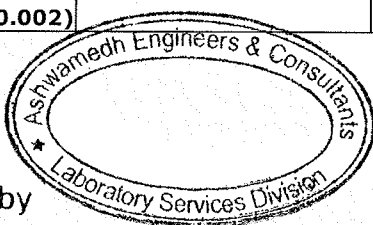
ULR-TC550924000003990F

TEST REPORT

Sample ID : W/02/24/0491	Report No. W/02/24/0491	Report Date	04/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Ground Water
Sampling Location	Plant Area	Date - Receipt of Sample	26/02/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	26/02/2024
Order Reference	P.O.No. 4300013656 dated 09.05.2023	Date - Completion of Analysis	02/03/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Physical & Chemical Parameters					
1	pH value (at 25°C)	7.01	6.5-8.5	-	IS 3025 (Part 11): 2022
2	Electrical Conductivity (at 25°C)	155	Not specified	µmho/cm	IS 3025 (Part 14):1984
3	Turbidity	BLQ (LOQ:0.2)	Max. 1	NTU	IS 3025 (Part 10): 2023
4	Total Dissolved Solids	86	Max.500	mg/L	IS 3025 (Part 16): 2023
5	Total Suspended Solids	6	Not specified	mg/L	IS 3025 (Part 17): 2022
6	Biochemical Oxygen Demand (3 days, 27°C)	2	Not specified	mg/L	IS 3025 (Part 44): 1993
7	Chemical Oxygen Demand	7	Not specified	mg/L	IS 3025 (Part 58):2006
8	Chloride (as Cl)	8.5	Max. 250	mg/L	IS 3025 (Part 32):Method No.2: 1988
9	Copper (as Cu)	BLQ (LOQ:0.02)	Max. 0.05	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
10	Iron (as Fe)	0.361	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Manganese (as Mn)	BLQ (LOQ:0.02)	Max. 0.1	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
12	Nitrate (as NO ₃)	0.5	Max.45	mg/L	APHA,24th Ed.,4500- NO3.B, 434: 2023
13	Sulphate (as SO ₄)	6.2	Max. 200	mg/L	IS 3025 (Part 24)/Sec-I: 2022
14	Total Hardness (as CaCO ₃)	64	Max. 200	mg/L	IS 3025 (Part 21), Method No.5: 2009
15	Calcium Hardness (as CaCO ₃)	32	Not specified	mg/L	IS 3025 (Part 40): 2004
16	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA,24th Ed.,4500- P.E,486: 2023
17	Sodium (as Na)	3.2	Not specified	mg/L	IS 3025 (Part 45): 2019
18	Potassium (as K)	0.54	Not specified	mg/L	IS 3025 (Part 45): 2019
19	Zinc (as Zn)	BLQ (LOQ:0.05)	Max. 5	mg/L	IS 3025 (Part 2): 2019/ ISO 11885:2007
20	Cadmium (as Cd)	BLQ (LOQ:0.002)	Max. 0.003	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
21	Lead (as Pb)	BLQ (LOQ:0.008)	Max. 0.01	mg/L	IS 3025 (Part 2): 2019/ ISO 11885:2007
22	Nickel (as Ni)	0.12	Max. 0.02	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
23	Chromium (Total) (as Cr)	BLQ (LOQ:0.02)	Max. 0.05	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
24	Cobalt (as Co)	BLQ (LOQ:0.002)	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007

Ulka Belan
Quality Manager
Reviewed & Authorised by



Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



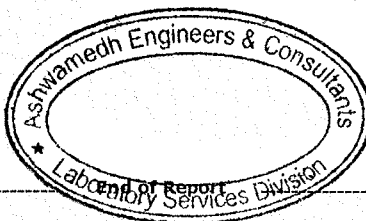
ULR-TC550924000003990F

Sample ID : W/02/24/0491	Report No. W/02/24/0491	Report Date	04/03/2024
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Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Biological Testing; Group: Water					
Bacteriological Parameters					
25	Total Coliforms	70	Not specified	MPN Index /100 ml	APHA, 24th Ed. 9221-B, 1134: 2023
26	Faecal Coliforms	13	Not specified	MPN Index /100 ml	APHA, 24th Ed., 9221-E, 1142: 2023
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.					

Ulka Belan

Ulka Belan
Quality Manager
Reviewed & Authorised by



Ninad Soundankar

Ninad Soundankar
Technical Manager (Chemical)
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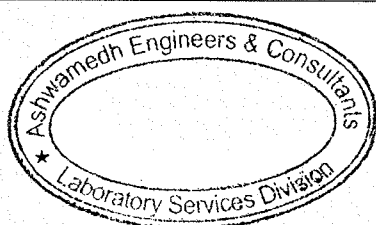
ULR-TC550924000005820F

TEST REPORT

Sample ID : W/03/24/0271	Report No. W/03/24/0271	Report Date	19/03/2024
Name and address of Customer	Laxmi Organic Industries Ltd. (Unit -II) Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad, Dist. Raigad - 402302, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Ground Water
Sampling Location	Plant Area	Date - Receipt of Sample	13/03/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 1 no. sterile glass bottle	Date - Start of Analysis	13/03/2024
Order Reference	P.O.No. 4300013656 dated 09.05.2023	Date - Completion of Analysis	18/03/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Physical & Chemical Parameters					
1	pH value (at 25°C)	8.38	6.5-8.5	-	IS 3025 (Part II): 2022
2	Electrical Conductivity (at 25°C)	102	Not specified	µmho/cm	IS 3025 (Part 14):1984
3	Turbidity	BLQ (LOQ:0.2)	Max. 1	NTU	IS 3025 (Part 10): 2023
4	Total Dissolved Solids	58	Max.500	mg/L	IS 3025 (Part 16): 2023
5	Total Suspended Solids	BLQ (LOQ:5)	Not specified	mg/L	IS 3025 (Part 17): 2022
6	Biochemical Oxygen Demand (3 days, 27°C)	BLQ (LOQ:1)	Not specified	mg/L	IS 3025 (Part 44): 1993
7	Chemical Oxygen Demand	BLQ (LOQ:5)	Not specified	mg/L	IS 3025 (Part 58):2006
8	Chloride (as Cl)	BLQ (LOQ:5)	Max. 250	mg/L	ISO-15923-1:2017
9	Copper (as Cu)	BLQ (LOQ:0.02)	Max. 0.05	mg/L	IS 3025 (Part 65): 2022 / ISO 17294-2: 2016
10	Iron (as Fe)	0.144	Max.1.0	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
11	Manganese (as Mn)	BLQ (LOQ:0.02)	Max. 0.1	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
12	Nitrate (as NO ₃)	0.73	Max.45	mg/L	APHA,24th Ed.,4500- NO3.B, 434: 2023
13	Sulphate (as SO ₄)	BLQ (LOQ:2)	Max. 200	mg/L	ISO-15923-1:2017
14	Total Hardness (as CaCO ₃)	44	Max. 200	mg/L	IS 3025 (Part 21), Method No.5: 2009
15	Calcium Hardness (as CaCO ₃)	31	Not specified	mg/L	IS 3025 (Part 40): 2004
16	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	ISO-15923-1:2017
17	Sodium (as Na)	6.8	Not specified	mg/L	IS 3025 (Part 45): 2019
18	Potassium (as K)	0.98	Not specified	mg/L	IS 3025 (Part 45): 2019
19	Zinc (as Zn)	0.107	Max. 5	mg/L	IS 3025 (Part 2): 2019/ ISO 11885:2007
20	Cadmium (as Cd)	BLQ (LOQ:0.002)	Max. 0.003	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
21	Lead (as Pb)	BLQ (LOQ:0.008)	Max. 0.01	mg/L	IS 3025 (Part 2): 2019/ ISO 11885:2007
22	Nickel (as Ni)	BLQ (LOQ:0.01)	Max. 0.02	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
23	Chromium (Total) (as Cr)	BLQ (LOQ:0.02)	Max. 0.05	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
24	Cobalt (as Co)	BLQ (LOQ:0.002)	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007

Hagare
Akshata Hagare
Senior Analyst (Biological)
Reviewed & Authorised by



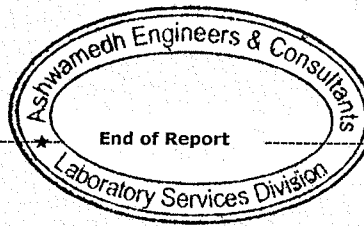
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Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



ULR-TC550924000005820F

Sample ID : W/03/24/0271		Report No. W/03/24/0271		Report Date		19/03/2024	
Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method		
Biological Testing; Group: Water							
Bacteriological Parameters							
25	Total Coliforms	<1.8	Not specified	MPN Index /100 ml	APHA, 24th Ed. 9221-B, 1134: 2023		
26	Faecal Coliforms	<1.8	Not specified	MPN Index /100 ml	APHA, 23rd Ed., 9221-E, 9-77: 2017		
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification							

Akshata Nagare
Senior Analyst (Biological)
Reviewed & Authorised by



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Technical Manager (Chemical)
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Annexure - 09.

NOISE LEVEL MEASUREMENT REPORT

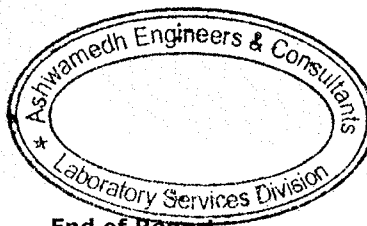
Sample ID: N/02/24/5900	Report No.: N/02/24/5900	Report Date	26/02/2024
Name and Address of Customer	Laxmi Organic Industries Ltd. Unit -II Plot No. B # 2/2, 3/1/1, 3/1/2, M.I.D.C Mahad, Dist.- Raigad 402301		
Monitoring done by	Laboratory	Sample Description /Type	Workplace Noise
Order Reference	PO No.4300013656 Dated 9.05.2023	Date-Monitoring	22/02/2024

Chemical Testing; Group: Atmospheric Pollution

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Limits As per Maharashtra Factories Rule 1963	Method
D.K Plant Ground Floor	09:30	68.1	66.8	90	CPCB Protocol for Ambient Level Noise Monitoring, July:2015
	20:10	62.7	60.3		
D.K Plant 1 st Floor	09:45	68.3	66.9		
	20:15	63.1	61.7		
MC Brine Ground Floor	09:55	69.9	67.2		
	20:25	66.4	64.4		
INT 1 st Floor Near Reactor	10:05	71.7	69.1		
	20:35	67.8	65.4		
INT Ground Floor Near FD-2	10:15	71.3	69.5		
	20:45	67.1	65.4		
INT Ground Floor Near No.4	10:20	70.3	68.7		
	20:55	66.2	64.2		
INT 1 st Floor Near FD-1	10:30	72.1	70.3		
	21:05	67.9	65.6		
QC Lab	10:45	65.1	63.3		
	21:10	61.4	59.6		
ETP Near BR	10:50	72.4	70.4		
	21:15	67.9	65.3		
Boiler Ground Floor Near FD	11:10	72.2	70.4		
	21:35	68.4	66.2		
Coal Crush Area Boiler Ground Floor	11:10	70.7	68.6		
	21:45	65.2	63.7		
Turbine Area	11:30	72.3	70.1		
	21:50	68.1	66.6		
Coal Banket Boiler 1 st Floor	11:30	72.4	70.2		
	21:50	66.4	64.9		
Between MCB & Main Work Shop	11:40	71.3	70.1		
	22:05	68.7	66.5		
D.G. Ground Floor	11:50	68.7	66.7		
	22:15	64.3	62.5		
NDK Ground Floor	12:05	72.2	69.9		
	22:35	67.6	65.8		

[Signature]

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Technical Manager (Chemical)
Reviewed & Authorised by



End of Report

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NOISE LEVEL MEASUREMENT REPORT

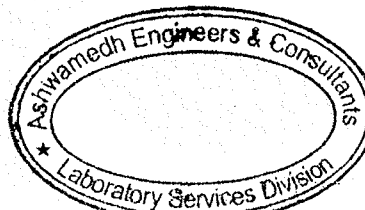
Sample ID: N/02/24/5899	Report No.: N/02/24/5899	Report Date	26/02/2024
Name and Address of Customer	Laxmi Organic Industries Ltd. Unit -II Plot No. B # 2/2, 3/1/1, 3/1/2, M.I.D.C Mahad, Dist.- Raigad 402301		
Monitoring done by	Laboratory	Sample Description / Type	Ambient Noise
Order Reference	PO No.4300013656 Dated 09.05.2023	Sampling Date	22/02/2024

Chemical Testing; Group: Atmospheric Pollution

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Security Gate No.01	10:10	64.1	62.6	CPCB Protocol for Ambient Level Noise Monitoring, July:2015
	22:00	60.8	58.7	
B. Security Gate No.02	10:40	64.3	62.9	
	23:00	61.7	59.3	
C. ETP Plant	11:10	69.3	67.4	
	23:30	64.8	62.2	
D. Alcohol Tank Farm	11:30	67.1	65.8	
	23:40	62.7	60.3	
Limits				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

Ninad Soundankar

Ninad Soundankar
Technical Manager (Chemical)
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End of Report

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