



LAXMI ORGANIC INDUSTRIES LTD

Chandermukhi, Third Floor, Nariman Point, Mumbai 400021, India
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LOI/UT/EC/05

Date- 18th May 2022

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 **Oct -2021 to March -2022**.

This is for your kind information and records.

Thanking You,

Yours faithfully,

For Laxmi Organic Industries Ltd.


Sameer Telavane
Unit Head & V.P. - Manufacturing

Encl: As attached

C.C. - SRO MPCB office, Mahad.



LAXMI ORGANIC INDUSTRIES LTD

Environment
Compliance
From Oct.
2021 to Mar.
2022

May 18

2022

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)	Total (After Expansion) <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of the raw material</th> <th>Qty. (TPD)</th> </tr> </thead> <tbody> <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> </tbody> </table>	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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15	Production Details																																															
	Product	Existing	Proposed	Total																																												
	Diketene Derivatives (TPM)	2015	690	2705	Complied with. All the production quantities are within the EC limits. Details of Production from Oct -2021 to March -2022 enclosed as Annexure-I																																											
	Ester/ Ester Derivatives	1000	300	1300																																												
	Amides/ Amide Derivatives	480	145	625																																												
	Arylides/ Arylides Derivatives	535	245	780																																												
	Diketene (TPM)	1350	500	1850																																												
	Acetic anhydride (TPM)	1200	1800	3000																																												
	Ketene derivatives	0	1600	1600																																												
	Ethyl acetate (TPM)	0	5000	5000																																												
	Ethylene oxide derivatives (TPM)	0	500	500																																												
	Sodium acetate	0	500	500																																												
	CPP- Electric Power (MW)	0	11	11																																												
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)	
	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	Complied with. The analysis is done by MoEFCC approved laboratory. All the values are within the permissible limits. Details attached in Annexure III
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	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. 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.	Noted and complied with, Low temperature Evaporator and Agitated thin film dryer was installed.																		
24	Disposal of ETP Sludge (if applicable)	To be sent to CHWTSDF	Noted and Complied with. ETP Sludge is sent to MWML, for details, please refer Annexure V																		
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	Complied with. Annexure VI
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 EHWTSDF
2	26.1 Catalyst from Processing	84	Used as fuel in furnace along with other fuels, after reprocessing.

27 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 m ³ /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**

				m ³ /hr	Gas 4600 m ³ /hr
	Boiler No 2; FO/Coal 8.3/22 TPD			C-9: 2 KL/D	C-9: 4 KL/D
	Boiler No 3; FO/Coal 8.3/22 TPD				C-9: 4 KL/D
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 Nm ³ /hr	11156	3000	2645	6010	6010
Gas Temperature °C	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 Cl ₂ , NO _x , 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 Nm ³ /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 Cl ₂ , NO _x , Sox, TPM etc	SOX, TPM	SOX, TPM	SOX, TPM	CO ₂ , Sox, NO _x , 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:						
	Fuel	Daily Consumption (TPD/KLD)		Calorific Value (Kcals/kg)%	Ash %	Sulphur %	Complied with. Fuel quantities are within the EC limits.
		Existin g	Propos ed				
	Gas	-	-	-	-	-	
	Naphtha	-	-	-	-	-	
	HSD	-	-	-	-	-	
	Fuel Oil (Furnace Oil)	8.3	No Change	10200	-	2	
	Coal	54	295	5300	10	0.5	
	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	Noted and complied with.
	2	Water	Domestic effluent to ETP after septic tank. Full-fledged Primary, Secondary, and Tertiary for trade effluent	Noted and complied with; however as per Consent to Operate, separate STP is being provided.
	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	Noted and complied with. Noise levels monitoring done by third party and meeting the prescribed limits.
	4	Solid Waste	To Authorized agency	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 (inflammable/explosive/hazardous/toxic substance)					Complied with.		
	Tank farm no.	Material name	Tank tag no	Storage size	Unit			
	TF- 1A	Specially Denatured Spirit (Hydrous Ethyl alcohol)	T- 01	4500	KL			
						All the chemicals are stored in respective storage tanks, layout of which are duly approved from		

TF- 1B	Specialiy 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	Z-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-29155	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 conform 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.

List of Annexures

Sr. No	Details Oct 2021 to March 2022	Details
1	Details of Production	Annexure-I
2	Details of Water consumption	Annexure-II
3	Analyses of wastewater	Annexure-III
4	Effluent Details	Annexure-IV
5	Hazardous waste disposal to MWML	Annexure-V
6	Non Hazardous waste disposal	Annexure-VI
7	Air emission details	Annexure-VII
8	Groundwater Analyses report	Annexure-VIII
9	Noise Repot	Annexure-IX

Annexure-I

Production Details

Sr. No.	Product Name	EC Quantity	Consent Quantity	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Ester/ Ester Derivatives (TPM)	1300	1300	1275	1207	1295	1297	1248	1245
2	Amide/ Amide Derivatives (TPM)	625	625	303	161	266	438	611	618
3	Arylides/ Arylides Derivatives (TPM)	780	780	488	524	600	607	573	653
4	Diketene (TPM)	1850	1850	1470	1343	1344	1382	1204	1364
5	Acetic anhydride (TPM)	3000	3000	1555	1339	1307	1588	1306	1368
6	Ketene Derivatives (TPM)	1600	1600	0	0	0	0	18	20
7	Ethylene oxide derivatives (TPM)	500	500	0	0	0	0	0	0
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 Oct- 2021 to March-2022 production quantity is well within the EC/Consent limits

Annexure – II

Water Consumption Details Oct- 2021 to Mar- 2022 (CMD)

Sr. No	Use of the water	EC/Consented Quantity	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Industrial Cooling	2849	907	1419	1205	1126	1240	1356
2	Domestic	30	22	28	29	23	25	24
3	Processing whereby water gets polluted	245	102	158	162	143	152	142
4	Gardening	7	6	7	7	7	7	7



Annexure - III

TEST REPORT

Sample ID: E/03/22/5110	Report No: E/03/22/5110	Report date:	22/03/2022
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 402302		
Sampling done by	Customer	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date - Receipt of Sample	16/03/2022
Sample Quantity/Packing	10 L x 1 no. plastic can 5 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Start of Analysis	16/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date - Completion of Analysis	22/03/2022

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	pH	7.53	5.5 to 9.0	-	IS 3025 (Part 0) 1983
2.	Total Suspended Solids	40	Not to exceed 100	mg/L	IS 3025 (Part 07) 1984
3.	Biochemical Oxygen Demand (3 days 27°C)	32	Not to exceed 100	mg/L	IS 3025 (Part 04) 1983
4.	Chemical Oxygen Demand	90	Not to exceed 250	mg/L	APHA 23rd Ed. 5220 B-5-10-2017
5.	Oil and Grease	BLQ (LOQ:1)	Not to exceed 10	mg/L	APHA 23rd Ed. 5520 B-5-42-2017
6.	Total Dissolved Solids	532	Not to exceed 2100	mg/L	IS 3025 (Part 05) 1984
7.	Chloride (as Cl)	74	Not to exceed 600	mg/L	IS 3025 (Part 27) 1988
8.	Sulphate (as SO ₄)	46	Not to exceed 1000	mg/L	IS 3025 (Part 24) 1988
9.	Hexavalent Chromium (as Cr ⁶⁺)	BLQ (LOQ:0.02)	Not specified	mg/L	APHA 23rd Ed. 3500-Cr. B 3-7E-2017
10.	Ammonical Nitrogen (as NH ₃ -N)	10.1	50	mg/L	APHA 23rd Ed. 4500-NH ₃ F. 4-43-2017
11.	Nitrate (as NO ₃)	5	Not specified	mg/L	APHA 23rd Ed. 4500-NO ₃ E-4-123-2017
12.	Sulphide (as H ₂ S)	BLQ (LOQ:0.08)	Not specified	mg/L	IS 3025 (Part 28) 1988
13.	Phosphate (as P)	1.4	Not specified	mg/L	APHA 23rd Ed. 4500-P E-4-84-2017
14.	Cyanide (as CN)	BLQ (LOQ:0.001)	Not specified	mg/L	APHA 23rd Ed. 4500-CN. C E-4-44 E-4-47-2017
15.	Phenolic Compounds (as C ₆ H ₅ OH)	BLQ (LOQ:0.01)	Not specified	mg/L	IS 3025 (Part 43) 1983
16.	Arsenic (as As)	BLQ (LOQ:0.005)	Not specified	mg/L	IS 3025 (Part 2) 2018
17.	Total Chromium (as Cr)	BLQ (LOQ:0.02)	Not specified	mg/L	IS 3025 (Part 2) 2018
18.	Cadmium (as Cd)	BLQ (LOQ:0.002)	Not specified	mg/L	IS 3025 (Part 2) 2018
19.	Copper (as Cu)	BLQ (LOQ:0.02)	Not specified	mg/L	IS 3025 (Part 2) 2018
20.	Lead (as Pb)	BLQ (LOQ:0.008)	Not specified	mg/L	IS 3025 (Part 2) 2018
21.	Nickel (as Ni)	BLQ (LOQ:0.01)	Not specified	mg/L	IS 3025 (Part 2) 2018



Sample ID: E/03/22/5110	Report No.: E/03/22/5110	Report Date:	22/03/2022
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22.	Mercury (as Hg)	BLQ (LOQ:0.0008)	Not specified	mg/L	IS 3025 (Part 2) 2018
23.	Zinc (as Zn)	BLQ (LOQ:0.05)	Not specified	mg/L	IS 3025 (Part 2) 2018

Biological Testing: Group: Pollution & Environment

Bacteriological Parameters

24.	Total Coliforms	4	Not specified	MPN Index /100ml	APHA 29th Ed. 920-B-9-05/2017
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BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Note: Sample ID E/03/22/5110 bears two Test Reports - E/03/22/5110 and E/03/22/5110N


Sonali Kapse
Senior Analyst (Biological)
Reviewed & Authorised by



End of Report


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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TEST REPORT

Sample ID: E/03/22/5110	Report No: E/03/22/5110N	Report date:	22/03/2022
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 402302		
Sampling done by:	Customer	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date - Receipt of Sample	16/03/2022
Sample Quantity/Packing	10 L x 1 no. plastic can 5 L x 2 no. plastic can 250 ml x 1 no. sterile bottle	Date - Start of Analysis	16/03/2022
Order Reference:	WO, No. 430007414 Dated 18.04.2021	Date - Completion of Analysis	22/03/2022

Sr. No.	Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Pollution & Environment					
Physical & Chemical Parameters					
1.	Total Nitrogen (as N)	5.24	Not specified	mg/L	APHA, 20 th Ed. 4500 NHO, 1.4-05-2007
2.	Percent Sodium	10.7	Not specified	%	By calculation
Biological Testing; Group: Pollution & Environment					
Bacteriological Parameters					
3.	Biosassy Test	100 % survival of fish after 96 hours in 100 % Effluent	Not specified	-	IS 8528:2011
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/22/5110 bears two Test Reports - E/03/22/5110 and E/03/22/5110N					


Sonali Kapse
Senior Analyst (Biological)
Reviewed & Authorised by

End of Report


Nihal Soundankar
Technical Manager (Chemical)
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Annexure- IV

Effluent Details m³/day (Oct 2021 to 2022)

Sr. No	Source	EC Condition	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Amount of treated effluent recycled	413 M ³ /D	184	177	172	200	186	169
2	Amount of treated effluent sent to CETP	172 M ³ /D	21	23	55	10	28	15

Annexure- V

Details of Hazardous waste disposal MT/M (Oct 2021 to March 2022)

Sr. No.	Sludge category	EC Quantity	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	ETP Sludge	9 MT/M	8	8.1	9	8.3	7.5	8.1

Annexure- VI

Details of Non-Hazardous waste disposal MT/M (Oct 2021 to March 2022)

Sr. No.	Sludge category	EC Quantity	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Coal Ash	30 MT/D	11.61	11.91	12.8	14.8	12.92	14.94

Annexure-VII

STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5763	Report No: SA/03/22/5763	Report Date:	24/03/2022
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 402302		
Sampling done in	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack 1			
~Stack attached to	6TPH Boiler			
~Material of construction	MS			
~Stack height above ground level	40		m	
~Stack diameter	1.2		m	
~Stack shape at top	Round			
~Type of Fuel	Coal			
~Fuel Consumption	336		kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	158	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	7.28	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	19916	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	52	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	39.7	726	kg/d	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	31.7	50	ppm	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO _x)	43.7	Not specified	mg/Nm ³	IS 11255 (Part 7):2005
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5763 bears two Test Reports - SA/03/22/5763 and SA/03/22/5763N				

4/5/24
 Ninad Soundankar
 Technical Manager (Chemical)
 Reviewed & Authorised by

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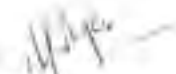
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5763	Request No: SA/03/22/5763N	Report Date:	24/03/2022
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 Mohad, Dist. - Raigad 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO _x : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis:	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit:		
~Stack Identity	Stack 1			
~Stack attached to	6TPH Boiler			
~Material of construction	MS			
~Stack height above ground level	40	m		
~Stack diameter	1.2	m		
~Stack shape at top	Round			
~Type of Fuel	Coal			
~Fuel Consumption	336	kg/h		
Parameter	Result	Limits as per MPCB Central	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Chlorine (Cl ₂)	BLQ (LOQ:0.1)	3	ppm	IS 5082 (Part IX):2002
Acid Mist (HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5763 bears two Test Reports - SA/03/22/5763 and SA/03/22/5763N				


Ninad Soundankar
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Reviewed & Authorised by



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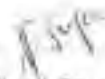


STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5766	Report No.: SA/03/22/5766	Report Date:	24/03/2022
Name and Address of Customer:	Laxmi Organic Industries Ltd. Unit -II Plot No. B # 2/2, 3/1/1, 3/1/2, H.I.D.C Mahad, Dist.- Raigad 402302		
Sampling done by:	Laboratory	Sample Description / Type:	Stack Emission
Sample Quantity/Packing:	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO _x : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure:	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis:	21/03/2022
Order Reference:	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis:	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack 2			
~Stack attached to	BTPH Boiler			
~Material of construction	MS			
~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	152	-	°C	IS 8255 (Part 3):2008
Flue Gas Velocity	6.40	-	m/s	IS 8255 (Part 3):2008
Flue Gas Quantity	17754	-	Nm ³ /h	IS 8255 (Part 3):2008
Particulate Matter (PM)	58	150	mg/Nm ³	IS 8255 (Part 1):1985
Sulphur Dioxide (SO ₂)	40.9	270	kg/d	IS 8255 (Part 2):1985
Sulphur Dioxide (SO ₂)	36.6	50	ppm	IS 8255 (Part 2):1985
Oxides of Nitrogen (NO _x)	41.4	Not specified	mg/Nm ³	IS 8255 (Part 7):2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
 Note: Sample ID SA/03/22/5766 bears two Test Reports - SA/03/22/5766 and SA/03/22/5766N


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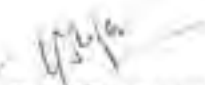
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5766	Report No. SA/03/22/5766N	Report Date	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated, 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack Z			
~Stack attached to	8TPH Boiler			
~Material of construction	MS			
~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)	3	ppm	IS 582 (Part XII) 1982
Acid Mist (HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5766 bears two Test Reports - SA/03/22/5766 and SA/03/22/5766N				


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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5764	Report No.: SA/03/22/5764	Report Date:	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description /Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure:	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference:	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 4		
~Stack attached to	33TPH Boiler		
~Material of construction	M5		
~Stack height above ground level	51.5	m	
~Stack diameter	1.2	m	
~Stack shape at top	Round		
~Type of Fuel	Coal		
~Fuel Consumption	6364	kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit Method

Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	159	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.00	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	21836	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	53	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	51.8	1527	kg/d	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	37.7	50	ppm	IS 11255 (Part 7):1985
Oxides of Nitrogen (NO _x)	50.5	Not specified	mg/Nm ³	IS 11255 (Part 7):2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID SA/03/22/5764 bears two Test Reports - SA/03/22/5764 and SA/03/22/5764N

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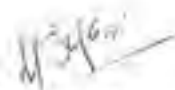
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5764	Report No.: SA/03/22/5764N	Report Date:	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Tlimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference:	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack 4			
~Stack attached to	33TPH Boiler			
~Material of construction	MS			
~Stack height above ground level	51.5		m	
~Stack diameter	1.2		m	
~Stack shape at top	Round			
~Type of Fuel	Coal			
~Fuel Consumption	6364		kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Chlorine (Cl ₂)	1.43	3	ppm	IS 5882 (Part III):2002
Acid Mist (HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5764 bears two Test Reports - SA/03/22/5764 and SA/03/22/5764N				


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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5765	Report No. SA/03/22/5765	Report Date:	24/03/2022.
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 402302		
Sampling done by:	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis:	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 5		
~Stack attached to	Ketene Furnace 3A ODK		
~Material of construction	MS		
~Stack height above ground level	30	m	
~Stack diameter	0.674	m	
~Stack shape at top	Round		
~Type of Fuel	Producer Gas		
~Fuel Consumption	500	kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit Method

Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Velocity	9.06	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	5664	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	38	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	0.79	Not specified	kg/d	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	2.21	50	ppm	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO _x)	55.2	Not specified	mg/Nm ³	IS 11255 (Part 2):2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID SA/03/22/5765 bears two Test Reports - SA/03/22/5765 and SA/03/22/5765N


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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5765	Report No. SA/03/22/5765N	Report Date	24/03/2022
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 Maliad, Dist. - Raigad 402302		
Sampling done by	Laboratory	Sample Description /Type	Stack Emission
Sample Quantity/Packaging	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack 5			
~Stack attached to	Ketene Furnace 3A ODK			
~Material of construction	MS			
~Stack height above ground level	30		m	
~Stack diameter	0.674		m	
~Stack shape at top	Round			
~Type of Fuel	Producer Gas			
~Fuel Consumption	500		kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	296	-	°C	IS 1255 (Part 3):2008
Chlorine (Cl ₂)	0.72	3	ppm	IS 5182 (Part 1):1982
Acid Mist (HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
Carbon Monoxide (CO)	2.41	Not specified	mg/Nm ³	Interagency Consensus Methods of Air Sampling & Analysis, (AWWA)3rd Edition, Method No. 126, Page no. 255
Hydrocarbon (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5182 (Part 1):1979
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5765 bears two Test Reports - SA/03/22/5765 and SA/03/22/5765N				

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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/3380	Report No: SA/03/22/3380N	Report Date:	21/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing		Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	-	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	21/03/2022

Stack Details			Unit	
~Stack Identity	Stack 5			
~Stack attached to	Ketene Furnace 3A ODK			
~Material of construction	MS			
~Stack height above ground level	30		m	
~Stack diameter	0.674		m	
~Stack shape at top	Round			
~Type of Fuel	Producer Gas			
~Fuel Consumption	500		k/hr	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.69	Not specified	Meter	-


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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5767	Report No.: SA/03/22/5767	Report Date:	24/03/2022
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 402302		
Sampling done by:	Laboratory	Sample Description / Type:	Stack Emission
Sample Quantity/Packing:	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date-Sampling:	18/03/2022
		Date-Receipt of Sample:	21/03/2022
Sampling Procedure:	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis:	21/03/2022
Order Reference:	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis:	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 6		
~Stack attached to	Ketene Furnace 3A NDK		
~Material of construction	MS		
~Stack height above ground level	30	m	
~Stack diameter	1.1	m	
~Stack shape at top	Round		
~Type of Fuel	Producer Gas		
~Fuel Consumption	1100	kg/h	

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	159	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.01	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	17569	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	38	150	mg/Nm ³	IS 11255 (Part 6):1985
Sulphur Dioxide (SO ₂)	4.89	Not specified	kg/d	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	4.43	50	ppm	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO _x)	43.7	Not specified	mg/Nm ³	IS 11255 (Part 7):2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID SA/03/22/5767 bears two Test Reports - SA/03/22/5767 and SA/03/22/5767N

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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5767	Report No: SA/03/22/5767N	Report Date	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PH: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle Cl ₂ : 30 ml x 1 no. plastic bottle HCl: 30 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 6		
~Stack attached to	Ketene Furnace 3A NDK		
~Material of construction	MS		
~Stack height above ground level	30	m	
~Stack diameter	1.1	m	
~Stack shape at top	Round		
~Type of Fuel	Producer Gas		
~Fuel Consumption	1100	kg/h	

Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Chlorine (Cl ₂)	0.31	3	ppm	IS 5082 (Part 10):2012
Acid Mist (HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
Carbon Monoxide (CO)	4.06	Not specified	mg/Nm ³	Interagency Committee Methods of Air Sampling & Analysis. (AWMA) 3rd Edition, Method No. 12B, Page no. 296
Hydrocarbon (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5082 (Part 10):2012

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID SA/03/22/5767 bears two Test Reports - SA/03/22/5767 and SA/03/22/5767N


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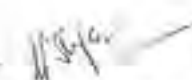
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/3381	Report No.: SA/03/22/3381N	Report Date:	21/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	-	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	-	Date-Start of Analysis:	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	21/03/2022

Stack Details			Unit	
~Stack Identity	Stack 6			
~Stack attached to	Ketene Furnace 3A NDK			
~Material of construction	MS			
~Stack height above ground level	30		m	
~Stack diameter	1.1		m	
~Stack shape at top	Round			
~Type of Fuel	Producer Gas			
~Fuel Consumption	1100		kg/hr	
Parameter	Result	Limits as per MPCB consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.49	Not specified	Meter	-


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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/3382	Report No. SA/03/22/3382N	Report Date:	24/03/2022
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 402302		
Sampling done by:	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM, Metals: 1 x 1 no. Thimble SO ₂ : 30ml x 1 no. plastic bottle NO _x : 25 ml x 1 no. plastic bottle Cl ₂ : 30ml x 1 no. plastic bottle HCl: 30ml x 1 no. plastic bottle	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 3):2008, (Part 7): 2005	Date-Start of Analysis	21/03/2022
Order Reference:	WO. No.4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 7		
~Stack attached to	INT Scrubber Stack I.D. 450 mm.		
~Material of construction	MS		
~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	49	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	6.94	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	6493	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	19	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	6.6	50	ppm	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO _x)	21	Not specified	mg/Nm ³	IS 11255 (Part 7):2005
Chlorine (Cl ₂)	0.37	3	ppm	IS 11255 (Part X9):1992
Acid Mist (HCl)	BLQ (LOQ:1)	35	mg/Nm ³	Titrimetric Method
Lead (as Pb)	0.024	Not specified	mg/Nm ³	US EPA Method 29
Arsenic (as As)	0.021	Not specified	mg/Nm ³	US EPA Method 29
Nickel (as Ni)	0.020	Not specified	mg/Nm ³	US EPA Method 29
Chromium (as Cr)	0.019	Not specified	mg/Nm ³	US EPA Method 29
Copper (as Cu)	0.033	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
Zinc (as Zn)	BLQ (LOQ:0.007)	Not specified	mg/Nm ³	US EPA Method 29
Iron (as Fe)	1.51	Not specified	mg/Nm ³	US EPA Method 29

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

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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/3383	Report No: SA/03/22/3383N	Report Date	24/03/2022
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 402302		
Sampling done by:	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	Al, Co: 1 no. thimble VOC: 1 x 4 no. charcoal tube	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7): 2005	Date-Start of Analysis	21/03/2022
Order Reference	Wo No.4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 7		
~Stack attached to	INT Scrubber Stack I.D. 450 mm		
~Material of construction	MS		
~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				
Aluminum (as Al)	BLQ (LOQ:0.001)	Not specified	mg/Nm ³	US EPA Method 20
Cobalt (as Co)	BLQ (LOQ:0.007)	Not specified	mg/Nm ³	US EPA Method 20
Total Volatile Organic Compounds				
Aniline	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC
Diketen	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC
O-Toluidine	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC
O-Anisidine	BLQ (LOQ:0.1)	Not specified	mg/Nm ³	By GC

BLQ: Below Limit of Quantification; LOQ: Limit of Quantification


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STACK EMISSION MONITORING REPORT

Sample ID: SA/D3/22/5768	Report No. SA/D3/22/5768	Report Date	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle HC, CO: 1 x 2 no. bladder	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure:	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	Wo No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit		
~Stack Identity	Stack 9			
~Stack attached to	D.G 1010 KVA			
~Material of construction	MS			
~Stack height above ground level	6.3	m		
~Stack diameter	0.3	m		
~Stack shape at top	Round			
~Type of Fuel	Diesel			
~Fuel Consumption	150	kg/h		
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Velocity	10.3	-	m/s	IS 10255 (Part 3):2008
Flue Gas Quantity	2406	-	Nm ³ /h	IS 10255 (Part 3):2008
Particulate Matter (PM)	31	150	mg/Nm ³	IS 10255 (Part 1):1985
Sulphur Dioxide (SO ₂)	0.50	72	kg/d	IS 10255 (Part 2):1985
Sulphur Dioxide (SO ₂)	3.3	50	ppm	IS 10255 (Part 2):1985
Oxides of Nitrogen (NO _x)	62.0	Not specified	mg/Nm ³	IS 10255 (Part 7):2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID SA/D3/22/5768 bears two Test Reports - SA/D3/22/5768 and SA/D3/22/5768N

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Technical Manager (Chemical)
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Disclaimer:

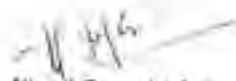
Information is supplied by the customer (-) and can affect the validity of results



STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5768	Report No: SA/03/22/5768N	Report Date	24/03/2022
Name and Address of Customer	Laxmi Organic Industries Ltd. Unit -II Plot No. B # 2/2, 3/1/1, 3/1/2, M.T.D.C Mahad, Dist - Raigad 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO _x : 25 ml x 1 no. plastic bottle HC, CO: 1 x 2 no. bladder	Duo-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack 9			
~Stack attached to	D.G 1010 kVA			
~Material of construction	MS			
~Stack height above ground level	63		m	
~Stack diameter	0.40		m	
~Stack shape at top	Round			
~Type of Fuel	Diesel			
~Fuel Consumption	150		kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing: Group: Atmospheric Pollution				
Flue Gas Temperature	287	-	°C	IS 11255 (Part 3):2005
Hydrocarbon (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 582 (Part 1):1979
Carbon Monoxide (CO)	54	Not specified	mg/Nm ³	Interagency Committee Methods of Air Sampling & Analysis. (MIRA)3rd Edition, Method No. 12B Page no 298
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5768 bears two Test Reports - SA/03/22/5768 and SA/03/22/5768N				


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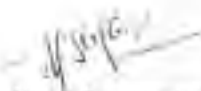
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/3384	Report No: SA/03/22/3384N	Report Date	21/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	-	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	-	Date-Start of Analysis	21/03/2022
Order Reference:	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	21/03/2022

Stack Details		Unit	
~Stack Identity	Stack 9		
~Stack attached to	D.G 1010 kVA		
~Material of construction	MS		
~Stack height above ground level	0.3	m	
~Stack diameter	0.40	m	
~Stack shape at top	Round		
~Type of Fuel	Diesel		
~Fuel Consumption	150	kg/hr	
Parameter	Result	Limits as per MPCB Consent	Unit Method
Chemical Testing; Group: Atmospheric Pollution			
Smoke	0.022	Not specified	Meter -


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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5769	Report No.: SA/03/22/5769	Report Date	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO, No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details		Unit	
~Stack Identity	Stack 10		
~Stack attached to	DG Set 1010 KVA		
~Material of construction	MS		
~Stack height above ground level	6.3	m	
~Stack diameter	0.25	m	
~Stack slope at top	Round		
~Type of Fuel	Diesel		
~Fuel Consumption	160	kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit Method

Chemical Testing: Group: Atmospheric Pollution				
Flue Gas Velocity	19	-	m/s	IS 11255 (Part 3):2008
Flue Gas Quantity	1808	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	30	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	0.25	72	kg/d	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	2.2	50	ppm	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO _x)	41.5	Not specified	mg/Nm ³	IS 11255 (Part 7):2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID SA/03/22/5769 bears two Test Reports - SA/03/22/5769 and SA/03/22/5769N

Handwritten Signature
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Technical Manager (Chemical)
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/5769	Report No: SA/03/22/5769N	Report Date:	24/03/2022
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 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	PM: 1 no. Thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO, HC: 1 x 2 no. bladder	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2): 1985, (Part 3):2008, (Part 7):2005	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	24/03/2022

Stack Details			Unit	
~Stack Identity	Stack 10			
~Stack attached to	DG Set 1010 KVA			
~Material of construction	MS			
~Stack height above ground level	6.3		m	
~Stack diameter	0.25		m	
~Stack shape at top	Round			
~Type of Fuel	Diesel			
~Fuel Consumption	160		kg/h	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	266	-	°C	IS 1125 (Part 2):2010
Hydrocarbon (HC)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	IS 5482 (Part 1):2016
Carbon Monoxide (CO)	BLQ (LOQ:0.5)	Not specified	mg/Nm ³	Interagency Committee Methods of Air Sampling & Analysis (AWMA)3rd Edition, Method No. 173, Page no. 208
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID SA/03/22/5769 bears two Test Reports - SA/03/22/5769 and SA/03/22/5769N.				


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Technical Manager (Chemical)
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STACK EMISSION MONITORING REPORT

Sample ID: SA/03/22/3385	Report No: SA/03/22/3385N	Report Date	21/03/2022
Name and Address of Client:	Laxmi Organic Industries Ltd. Unit -II Plot No. B # 2/2, 3/1/1, 3/1/2, M.L.D.C Mahad, Dist.- Raigad 402302		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity/Packing	-	Date-Sampling	18/03/2022
		Date-Receipt of Sample	21/03/2022
Sampling Procedure	-	Date-Start of Analysis	21/03/2022
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Date-Completion of Analysis	21/03/2022

Stack Details			Unit	
~Stack Identity	Stack 10			
~Stack attached to	DG Set 1010 kVA			
~Material of construction	MS			
~Stack height above ground level	7		m	
~Stack diameter	0.25		m	
~Stack shape at top	Round			
~Type of Fuel	Diesel			
~Fuel Consumption	160		k/hr	
Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Smoke	0.068	Not specified	Meter	-


Ninad Soundankar
Technical Manager (Chemical)
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Annexure - VIII

ULR-TC55092200004070F

TEST REPORT

Sample ID - W/03/22/0355	Report No. W/03/22/0355	Report Date	22/03/2022
Name and address of Customer	Laxmi Organic Industries Ltd. Unit 2 Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad - 402 302 Dist. Raigad, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Water (Ground Water)
Sampling Location	Plant Area	Date - Receipt of Sample	16/03/2022
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Start of Analysis	16/03/2022
Order Reference	P.O. No. 4300007414 dated 18.04.2021	Date - Completion of Analysis	21/03/2022

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water					
Physical & Chemical Parameters					
1	pH value	6.87	6.5-8.5	-	IS 3025 (Part II) 1982
2	Turbidity	0.85	Max.1	NTU	IS 3025 (Part II) 1984
3	Electrical Conductivity (at 25°C)	187	Not specified	µS/cm	IS 3025 (Part II) 1984
4	Biochemical Oxygen Demand (3 days, 27°C)	BLQ (LOQ:1)	Not specified	mg/L	IS 3025 (Part IV) 1982
5	Chemical Oxygen Demand	BLQ (LOQ:5)	Not specified	mg/L	APHA 23rd Ed. 5220-B-5-B
6	Total Suspended Solids	BLQ (LOQ:5)	Not specified	mg/L	IS 3025 (Part II) 1984
7	Total Dissolved Solids	108	Max.500	mg/L	IS 3025 (Part II) 1984
8	Chloride (as Cl)	25.5	Max.250	mg/L	IS 3025 (Part II) 1984
9	Copper (as Cu)	BLQ (LOQ:0.02)	Max. 0.05	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
10	Iron (as Fe)	BLQ (LOQ:0.06)	Max. 1	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
11	Manganese (as Mn)	BLQ (LOQ:0.02)	Max. 0.1	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
12	Nitrate (as NO ₃)	5	Max.45	mg/L	APHA 23rd Ed. 4500-NO ₃ -B-4127
13	Sulphate (as SO ₄ ⁻)	9.09	Max. 200	mg/L	IS 3025 (Part II) 1984
14	Total Hardness (as CaCO ₃)	90	Max.200	mg/L	IS 3025 (Part II) 1984
15	Calcium Hardness (as CaCO ₃)	50	Max. 200	mg/L	IS 3025 (Part II) 1984
16	Sodium (as Na)	5	Not specified	mg/L	IS 3025 (Part II) 1984
17	Potassium (as K)	0.7	Not specified	mg/L	IS 3025 (Part II) 1984
18	Total Phosphate (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA 23rd Ed. 4500-P-E-4-184
19	Zinc (as Zn)	BLQ (LOQ:0.05)	Max. 5	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
20	Cadmium (as Cd)	BLQ (LOQ:0.002)	Max.0.003	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
21	Lead (as Pb)	BLQ (LOQ:0.008)	Max 0.003	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
22	Nickel (as Ni)	BLQ (LOQ:0.01)	Max.0.02	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
23	Chromium (Total) (as Cr)	BLQ (LOQ:0.02)	Max.0.05	mg/L	IS 3025 (Part 2:2018/ISO 1885:2017)
Biological Testing; Group: Water					
Bacteriological Parameters					

Rutheeraj



ULR-TC550922000004070F

Sample ID: W/03/22/0355	Report No. W/03/22/0355	Report Date:	22/03/2022
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Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
24	Total Coliforms	<1.8	Not specified	MPN Index /100 ml	APHA 2011d, ISO-E 9180:2017
25	Faecal Coliforms	<1.8	Not specified	MPN Index /100 ml	APHA 2011d, ISO-E 917:2017

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

Note: Sample ID W/03/22/0355 bears two Test Reports - W/03/22/0355 and W/03/22/0355N

Sonali Kapse

Senior Analyst (Biological)
Reviewed & Authorised by



Kavita Showale

Section In-charge (Chemical)
Reviewed & Authorised by

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TEST REPORT

Sample ID: W/03/22/0355	Report No: W/03/22/0355N	Report Date:	22/03/2022
Name and address of Customer	Laxmi Organic Industries Ltd. Unit 2 Plot No. B 2/2, 3/1/1, 3/1/2, MIDC, Mahad - 402 302 Dist. Raigad, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Water (Ground Water)
Sampling Location	Plant Area	Date - Receipt of Sample	16/03/2022
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Start of Analysis	16/03/2022
Order Reference	P.O. No. 4300007414 dated 18.04.2021	Date - Completion of Analysis	21/03/2022

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water					
Physical & Chemical Parameters					
1	Cobalt (as Co)	BLQ (LOQ:0.02)	Not specified	mg/L	IS 3025 (Part 2) 2018/ISO 10885:2007

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID W/03/22/0355 bears two Test Reports - W/03/22/0355 and W/03/22/0355N

Kavita Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



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Annexure - IX

NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/03/22/5750	Report No. N/03/22/5750	Report Date	22/03/2022
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 402302		
Monitoring done by	Laboratory	Sample Description / Type	Ambient Noise
Order Reference	WO. No. 4300007414 Dated 18.04.2021	Order Reference	17/03/2022

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	71.2	69.3	CIRI Protocol for Ambient Level Noise Monitoring, July IEC/C/SIP/2006/ISS-05 issue no.4 Issue Date 01.04.2008
	22:00	59.7	57.2	
B. Security Gate No.02	10:40	71.8	69.6	
	23:00	68.5	66.1	
C. ETP Plant	11:10	70.9	67.4	
	23:30	65.6	63.7	
D. Alcohol Tank Farm	11:30	72.2	70.5	
	23:40	68.4	66.7	

Limits		
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))		
Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

[Signature]
Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



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