LAXMI ORGANIC INDUSTRIES LTD
Chandermukhi, Third Floor, Nariman Point, Mumbai 400021, India
T +91 22 49104444 **E** info@laxmi.com **W** www.laxmi.com

LOIL/MHD/05
Date- 16.04.2024

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 Limited Plot No- A-22/2/1 & A-23, MIDC Mahad, Tal. Mahad, Dist. Raigad,

Ref: - Environment Clearance No. –SIA/MH/IND3/304237/2023 **Date: 21/07/2023**

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 -2023 to Mar-2024**. (EC obtained in the month of July 2023) (Due to technical error at the parivesh portal , we are unavailable to fill this Half yearly EC Compliances online at PARIVESH Site)

This is for your kind information and records.

Thanking You,

Yours faithfully,

For **Laxmi Organic Industries Limited.**

Authorized Signature

Encl: As attached

C.C. - SRO MPCB office, Mahad.

Submitted by-

Environmental Clearance Conditions: Compliance Report From Oct-2023 to Mar-2024

April 16

2024

M/S. Laxmi Organic Industries limited.

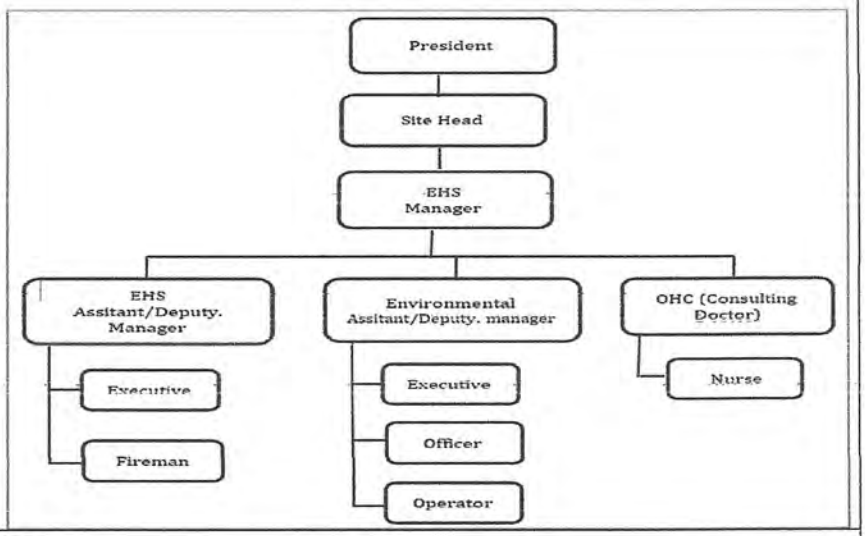
Plot No A-22/2/1, MIDC, Industrial Area, MIDC Mahad

Mahad Dist. Raigad-402309 Maharashtra State

Compliance Report for the condition in the Environment Clearance:

Sr. No	EC (Environmental Clearance) Specific Condition	Status
1.	Name of the project and address along with all corner latitude and longitude	Proposed expansion of synthetic organic chemical manufacturing facility of Yellowstone Chemical Pvt. Ltd plot no 22/2/1 and A-23 MIDC Mahad And Name Change to Laxmi Organic Industries on Date **21.07.2023.** Ref: No. SIA/MH/IND3/304237/2023 **Point No** **Latitude** **Longitude** 1 18° 6'32.68"N 73°28'22.00"E 2 18° 6'26.98"N 73°28'19.57"E 3 18° 6'23.06"N 73°28'22.89"E 4 18° 6'26.22"N 73°28'22.09"E 5 18° 6'26.60"N 73°28'23.63"E 6 18° 6'26.28"N 73°28'23.75"E 7 18° 6'26.40"N 73°28'24.70"E 8 18° 6'26.83"N 73°28'24.95"E 9 18° 6'26.69"N 73°28'25.75"E 10 18° 6'30.84"N 73°28'27.16"E
2	Type of Organization (Private/Government/Sami Government)	Private Limited company registered under companies Act
3	Corresponding Address and contact details of project	Mr. Prashant Patil Mail ID Prashant.patil@laxmi.com Mobile No; 9869943830
4	Type of project (TOR /EC/Amendment in TOR/Amendment in EC/ Revalidation/ Expansion / Process change	Existing company in compliance with CTO granted before EIA notification 2006 YCPL is applied for first Environment clearances
5	Category of project Per EIA notification 2006 amendment from time to time	5(f) B1 Synthetic Organic chemical Manufacturing Facility
6	If earlier ToR is obtained Pl mentioned details	Auto standard TOR
7	If earlier EC is obtained Pl mention EC number and date	No
8	Weather the proposal is a violating case (Yes/No)	No Not applicable
9	Applicable of CRZ Clearance (Yes /No)	No Not Applicable
10	Weather general /Specific conditions are applicable to the project (Yes/No)if yes pl give details	No Not applicable
11	Whether scrutiny fees paid as per	Yes Paid 7,00,000/- Transaction date 20 th Dec 2022 Online

12	Name of accredited environmental consultant and address along with Accreditation No and Validity	Aditya Environment Service Pvt Ltd Mumbai -400016 NABET/EIA/2225/RA 0262 Dated 18th October 2022
13	Name of the layout plan approving Authority	Maharashtra Industrial Development corporation (MIDC) Mahad
14	Estimation cost of the project (In Rs. Crores)	230 Cr
17	Area of green belt and no of trees in proposed project in Sq.M	10951 Sq.m
18	With of internal roads and turning radius	Width of internal roads -6M Turning radius -9m
19	Details of proposed construction	Total Plant Area 13900
20	List of Raw material and storage details	As Per Environment Clearance approvals
21	Product details	As Per Environment Clearance
22	Water consumption and effluent generation Source and Qty of water requirement (CMD)	Source of water is MIDC. Total water requirement -4777 CMD.(Fresh 2742 and treated effluent recycle 2035cmd). Water assurance letter received from MIDC on dtd. 15.12.2021
23	Quantity of sewage generation(In CMD)	Domestic sewage 55 CMD
24	Details of sewage treatment and disposal	Treated water from STP will be reused from green belt development and maintenance.
25	Details of effluent generation	Domestic 55 CMD, Treated effluent 2090 and total 2245 CMD
26	Weather zero liquid discharge effluent treatment is proposed	Treated effluent of 155 CMD will be discharge to CETP as per existing consent
27	Brief description of effluent treatment plant	Treated effluent of 155 CMD will be discharge to CETP as per existing consent
28	Qty. of treated effluent proposed to be sent to CETP(Please mention name of CETP and its membership details)	Treated effluent of 155 CMD will be discharged to CETP as per existing consent. Disposed to MMA CETP Cooperative Society
29	Pl. mention parameter of treated effluent to be achieved as per EP Rule 1986 and or stipulated by SPCB	Treated waste water 155 CMD will disposed to MMA CETP Cooperative Society. Attached **Annexure-I**
30	Brief note on proposed rainwater harvesting scheme along with budget allocation	Harvested water will be stored and will be used with in the plant
31	Solid waste management	Generated solid waste will compost / sale to Authorized dealers
32	Hazardous waste generation and disposal(As per HW Rule 2016)	Obtained membership from MWML and will dispose and per HW rule. Attached **Annexure- II**
33	Fuel consumption	Fuel consumption will be Coal. Briquette HSD, Organic residue with quantity with after approvals
34	Brief note on Air pollution control equipment	DG Set will be provided with adequate stack height ESP will be provided for proposed boiler Process scrubber will be provided to control process emission

35	Stack details (Also include process vent details)	Stacks will be installed as per EC in phase wise after obtaining Consent from state pollution control board. Attached **Annexure- III**
36	Energy	a. Power supply by MSEDCL and Cogen b. DG Existing 1 and proposed 2
37	Detail of use of renewable energy with budget allocation	Total energy demand is 7669
38	Details of Public hearing	Project is in notified industrial area hence public hearing in not applicable
39	EMP	Will be implemented phase wise as mention in EC
40	Other relevant information	Three are great demand for proposed product. Generate local employment. Infrastructure enhancement through CER activates
41	Details of skill development program with organogram	Training and Awareness program
42	Details of environmental monitoring cell(Pl provide organogram with education and experience)	
43	Details of court cases if pending in any Honble Court	No
B.	**SEAC Conditions**	
	PP to submit layout plan showing internal roads with minimum six meter width and nine meter turning radius, entry/ exit gates (pereferly sliding gates), provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions preferably on the periphery of the plot with the provision of drip irrigation, rain water harvesting structures (location with dimensions), storm	Lay out submitted and same approved from MIDC

	water drain lines etc. Adoption of Nature Based Solution for green area should be kept as a principle of development and ecology.	
2.	The total effluent generation is proposed to be 2245 KLD; PP proposes to discharge 155 KLD the Mahad CETP whereas the rest 2090 KLD will be a Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/ mechanical vapour compressor etc. so s to reduce operation cost and use of natural resources. PP to get ZLD design vetted by the reputed institute before commissioning of the proposed manufacturing.	Noted . 155 CMD will be treated and will disposed to CETP
3.	PP to submit copy of MIDC water supply permission for their existing as well as expansion activity.	Water commitment letter received from MIDC
4.	PP to submit an undertaking for not violating any requirement of EIA Notification, 2006 amended from time to time.	Noted
5	PP to ensure to monitor all parameters proposed to be monitored in work zone area in the ambient air also, so as to trace any escape of work zone area pollutant in the ambient air.	Noted. Attached **Annexure-IV**
6	PP to identify the sources of odour generation like the operation where toxic/obnoxious chemicals are used and provide appropriate odour control mechanism to avoid nuisance to the surrounding area.	Noted
7	PP to get Wild Life Conservation Plan approved from the Competent Authority for which PP earmarked Rs. 25 lakhs.	Noted . Detail report submitted
8	PP to ensure to deploy well	Training provided to all employees

	trained regular employees on all critical/hazardous operations and storages of hazardous chemical instead of contract workers. Regular safety training to be provided to all such employees.	
9	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/ handling as per compatibility.	Noted and will display
10	PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.	Noted and complied with.
11	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.	Noted.
12	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.	Noted and no vehicle will be parked in public road
13	PP to ensure to prepare and implement On-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.	Noted. Onsite emergency plan available. HAZOP and risk assessment prepared Training provided to all employees
14	PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.	Noted and will comply
15	PP to utilize CER funds for development of public infrastructure in the vicinity of the project area in consolation with District Administration. A proper CER plan to be prepared	Noted

	and shared for MSW management in the region for its effective implementation.	
16	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.	Noted.
	SEIAA Condition	
1	PP has obtained plan approval from MIDC dated 11.08.2020 for Plot area is 3317 m2 and Green belt of 10951 m2 (33%) is provided.	Applied and same had been approved
2	PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, People, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental clearance under expert guidance of Miyawaki experts/ arborist.	Noted.
3	PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.	Noted.
4	PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.	Noted. Unit is member of MWML
5	PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.	Noted.
6	PP to ensure storage of chemicals as per the Manufacture, Storage	Noted.

	license/approval of the Petroleum & Explosive Safety Organization (PESO).	
8	PP to obtain approval and License from the Directorate of Industrial Health & safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.	Noted.
9	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.	Noted
10	PP to ensure use of briquette/bio coal/pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/ agriculture waste, not less than 50% of the total fuel requirement to the boiler.	Noted
11	PP to provide roof top Rain Water Harvesting facility.	Noted
C	**General Condition**	
1	The project proponent shall advertise at least in two local newspapers widely circulated 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 Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at http://parivesh.nic.in	Published in two local news paper
2	The project proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental	Noted Compliance report for Oct 2023 to March 2024. Last Compliance report Submitted in time.

	Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1st December of each calendar year.	
3	Separate fund shall be allocated for the implementation of Environmental Management Plan along with wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The Funds embarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.	Separate Budget allocated of EHS . Year wise expenditure will be submitted
4	A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.	Separate environment management cell which is heading by Sr. Vice President EHS
5	In the event failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.	Noted.
6	PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.	Noted
7	PP to provide separate drains for storm drains water and effluent, and ensure that, the storm water drains are dry all the time and in	Noted

6	PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.	Noted
7	PP to provide separate drains for storm drains water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.	Noted
8	Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analyzed to ascertain any change in the quality of water. Result shall be regularly submitted to the Maharashtra Pollution Control Board.	Noted . Attached **Annexure-V**
9	The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environmental (Protection) Act, 1986 and Rule, 1989 as amended for time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.	Noted . Protective equipment's like Ear Muff and Ear pledge available to use in high noise area Attached **Annexure-VI**
10	Adequate safety measures shall be ensured to limit the risk zone within factory premises. Leak detection system shall be installed for early detection and mitigation purpose.	Noted
11	PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.	Noted and will followed.
12	The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as	Noted. Last Environmental Statement on dated 16.09.2023.

	prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.	

Annexure - I

Waste Water Generation & Disposal Details Oct-23 to Mar-24

Month	Waste Water Generation M3/ D	Treated Water Disposal to CETP M3/ D	Total Average M3/D
Oct-23	87	87	87
Nov-23	83	83	83
Dec-23	84	84	84
Jan-24	96	96	96
Feb-24	86	86	86
Mar-24	98	98	98

Note : Within the consented limit of 100 KL/Day

Annexure - II

Details of Hazardou Waste Disposal MT/M (Oct -2023 to Mar 2024)

Sr. No	Description	Consented Quantity	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Average
1	Sludge Generation from ETP	10MT/M	**8.13**	**18.13**	**8.95**	**9.02**	**9.38**	**8.95**	10.42

Consented Quantity :- 35Kg/Day
Average Dsiposal:- 10.42 MT/M

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Annexure III
Pages - 01 of 04

STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/5490	Report No. SA/01/24/5490	Report Date	19/01/2024
Name and address of Customer	**Laxmi Organic Industries Limited** Plot No. A-22/2/1, Village-Kamble, MIDC Mahad, Dist. Raigad - 402309, 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: 1 x 1 no. bladder	Date - Sampling	13/01/2024
		Date - Receipt of Sample	15/01/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	15/01/2024
Order Reference	P.O. No 4300013566 Date: 29.04.2023	Date - Completion of Analysis	18/01/2024

Stack Details	
~ Stack Identity	Stack-1
~ Stack attached to	Boiler Coal Fire
~ Material of construction	RCC
~ Stack height above ground level	36 m
~ Stack diameter	0.9 m
~ Stack shape at top	Round
~ Type of Fuel	Coal
~ Fuel Consumption	39 MT/d

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**147**	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	**7.67**	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	**12111**	-	Nm^3/h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	**48**	150	mg/Nm^3	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO_2)	**97.1**	Not specified	mg/Nm^3	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO_2)	**28.2**	350	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO_2)	**48.8**	Not specified	mg/Nm^3	IS 11255 (Part 7): 2017

Note: Sample ID SA/01/24/5490 bears two Test Reports - SA/01/24/5490 and SA/01/24/5490N

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

End of Report

Note:
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ANNEXURE. III
Page 02 of 04

STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/5491	Report No. SA/01/24/5491	Report Date	19/01/2024
Name and address of Customer	**Laxmi Organic Industries Limited** Plot No. A-22/2/1, Village-Kamble, MIDC Mahad, Dist. Raigad - 402309, 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, CO_2: 1 x 2 no. bladder	Date - Sampling	13/01/2024
		Date - Receipt of Sample	15/01/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	15/01/2024
Order Reference	P.O. No 4300013566 Date: 29.04.2023	Date - Completion of Analysis	18/01/2024

Stack Details	
~ Stack Identity	Stack-3
~ Stack attached to	D.F Set 63 KVA
~ Material of construction	M.S
~ Stack height above ground level	6 m
~ Stack diameter	0.1 m
~ Stack shape at top	Round
~ Type of Fuel	H.S.D.
~ Fuel Consumption	35 L/h

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**120**	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	**7.85**	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	**164**	-	Nm^3/h	IS 11255 (Part 3) : 2018
Particulate Matter (PM)	**32**	150	mg/Nm^3	IS 11255 (Part 1): 2019
Sulphur Dioxide (SO_2)	**37.1**	Not specified	mg/Nm^3	IS 11255 (Part 2): 2019
Sulphur Dioxide (SO_2)	**0.15**	16.80	kg/d	IS 11255 (Part 2): 2019
Oxides of Nitrogen (NO_2)	**48.9**	Not specified	mg/Nm^3	IS 11255 (Part 7): 2017
Carbon Dioxide (CO_2)	**2.8**	Not specified	%	IS 13270: 2019
Carbon Monoxide (CO)	**5.4**	Not specified	%	IS 13270: 2019

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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ANNEXURE III
Page 03 of 04

STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/5490	Report No. SA/01/24/5490N	Report Date	19/01/2024
Name and address of Customer	**Laxmi Organic Industries Limited** Plot No. A-22/2/1, Village-Kamble, MIDC Mahad, Dist. Raigad - 402309, 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: 1 x 1 no. bladder	Date - Sampling	13/01/2024
		Date - Receipt of Sample	15/01/2024
Sampling Procedure	IS 11255 (Part 1):2019, (Part 2):2019, (Part 3):2018, (Part 7):2017	Date - Start of Analysis	15/01/2024
Order Reference	P.O. No 4300013566 Date: 29.04.2023	Date - Completion of Analysis	18/01/2024

Stack Details	
~ Stack Identity	Stack-1
~ Stack attached to	Boiler Coal Fire
~ Material of construction	RCC
~ Stack height above ground level	36 m
~ Stack diameter	0.9 m
~ Stack shape at top	Round
~ Type of Fuel	Coal
~ Fuel Consumption	39 MT/d

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Carbon Monoxide (CO)	9	Not specified	%	IS 13270: 2019

Note: Sample ID SA/01/24/5490 bears two Test Reports - SA/01/24/5490 and SA/01/24/5490N

Ninad Soundankar
Technical Manager (Chemical)
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ANNEXURE - III
Page 04 of 04

STACK EMISSION MONITORING REPORT

Sample ID : SA/01/24/3261	Report No. SA/01/24/3261N	Report Date	17/01/2024
Name and address of Customer	**Laxmi Organic Industries Limited** Plot No. A-22/2/1, Village-Kamble, MIDC Mahad, Dist. Raigad - 402309, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	Acid Mist (as HCl): 30 ml x 1 no. plastic bottle	Date - Sampling	13/01/2024
		Date - Receipt of Sample	15/01/2024
Sampling Procedure	IS 11255 (Part 3):2018	Date - Start of Analysis	15/01/2024
Order Reference	P.O. No 4300013566 Date: 29.04.2023	Date - Completion of Analysis	16/01/2024

Stack Details	
~ Stack Identity	Stack-2
~ Stack attached to	Acetaldehyde Plant Scrubber
~ Material of construction	P.V.P
~ Stack height above ground level	25 m
~ Stack diameter	0.15 m
~ Stack shape at top	Round
~ Type of Fuel	-
~ Fuel Consumption	-

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	**42**	-	°C	IS 11255 (Part 3) : 2018
Flue Gas Velocity	**6.92**	-	m/s	IS 11255 (Part 3) : 2018
Flue Gas Flow Rate	**414**	-	Nm^3/h	IS 11255 (Part 3) : 2018
Acid Mist (as HCl)	**3.8**	35	mg/Nm^3	Titrimetric Method

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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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

ANNEXURE IV
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/24/5485	Report No. AA/01/24/5485	Report Date	20/01/2024
Name and address of Customer	**Laxmi Organic Industries Limited** Plot No. A-22/2/1, Village-Kamble, MIDC Mahad, Dist. Raigad - 402309, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Main Gate	Date - Sampling	13/01/2024
Sample Quantity / Packing	PM_{10}, Bap, Metals: 1 x 1 no. filter paper $PM_{2.5}$: 1 x 1 no. filter paper SO_2, NO_2: 30 ml x 2 no. plastic bottle each NH_3: 10 ml x 8 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C_6H_6: 1 x 2 no. charcoal tubes CO: 1 x 1 no. bladder	Date - Receipt of Sample	15/01/2024
Sampling Procedure	As per method reference	Date - Start of Analysis	15/01/2024
Order Reference	P.O. No 4300013566 Date: 29.04.2023	Date - Completion of Analysis	19/01/2024

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity (Max./Min.): 71/65%	Temperature (Max./Min.): 30/27°C	Duration of Survey
7.2 km/h	S-W			8 h

Parameter	Result	Unit	Method
Chemical Testing; Group: Atmospheric Pollution			
Sulphur Dioxide (SO_2)	**10.8**	µg/m³	IS 5182 (Part 2/Sec I): 2023
Nitrogen Dioxide (NO_2)	**29.8**	µg/m³	IS 5182 (Part 6): 2017
Particulate Matter (size less than 10 µm) or PM_{10}	**82**	µg/m³	IS 5182 (Part 23): 2017
Particulate Matter (size less than 2.5µm) or $PM_{2.5}$	**43**	µg/m³	CPCB Guideline, Volume I,36/2012-13, Page No.15:2013
Ozone (O_3)	**BLQ (LOQ:19.6)**	µg/m³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411,Page no. 403 :1988
Lead (as Pb)	**BLQ (LOQ:0.02)**	µg/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999
Carbon Monoxide (CO)	**1.18**	mg/m³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH_3)	**BLQ (LOQ:20)**	µg/m³	CPCB Guidelines, Volume I,36/2012-13, Page No.35: 2013
Benzene (C_6H_6)	**1.16**	µg/m³	IS 5182 (Part 11): 2017
Benzo (a) pyrene (BaP) Particulate Phase only	**BLQ (LOQ:0.2)**	ng/m³	IS 5182 (Part 12): 2014
Arsenic (as As)	**BLQ (LOQ:0.3)**	ng/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.4, Jun : 1999
Nickel (as Ni)	**BLQ (LOQ:3)**	ng/m³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2, Jun: 1999

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

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

End of Report

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