

PIL MHD/EHS/149/EC -23 /2024

01.06.2024

To,
The Member Secretary,
State Level Environmental Impact Assessment Authority,
Environment Dept.
Government of Maharashtra,
15th Floor, New administrative Building,
Mantralaya, Mumbai- 400032

Dear Sir,

Sub: Six Monthly Compliance report to the condition stated in EC Letter dt 21.07.2023

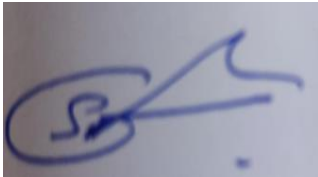
Reference: 1) Environment Clearance No. SIA/MH/IND3/82941/2021 dated 21/07/2023
2) Environment Clearance No. SEIAA-EC-0000002138 dt. 28.02.2020 dated 01/03/2020
3) Environment Clearance No. SEAC-2012/CR-201/TC -2 dated 31/12/2015

We have recently obtained environment clearance bearing No EC23B000MH149898 dt. 21/07/2023 for expansion at our factory located at Mahad Plot A 21/1 , A 21/2 and A22/1 Dist. Raigad, Maharashtra. Latest Environment Clearance dated 21/07/2023 supersedes earlier Environment Clearance reference sr. no. 2 and 3.

In reference to subject letter, we are herewith submitting our Six-monthly compliance Report for the period October 23 to March 24 in compliance with EC general condition conditions no. II.

Kindly acknowledge the receipt of the same

Thanking You
For Pidilite Industries Ltd.



Authorized Signatory

Copy to: -

Regional Office MOEF, Nagpur

Zonal Office, CPCB, Pune

Regional Office, SPCB, Navi Mumbai

Specific Conditions: -(SEAC Conditions)

Sr	Conditions Details	Current Status
1	PP to submit lay plot plan showing internals roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably 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 dimension preferably on the periphery of the plot with provision of drip irrigation, rain water harvesting structures(locations with dimensions), storm water drain lines etc. Adoption of Nature Based solutions for green area should be kept as a principle of development and ecology	Plant layout considering requirements as specified in specific condition is approved by MIDC and Attached – Annexure -1
2	The total effluent generation is 175.5 CMD. PP propose to provide ZLD for 127.5 CMD and 48 CMD will be discharge to the CETP after meeting the parameters as stipulated in the consent letter	Total effluent generation is less than 42.5 KLD and discharge to CETP is less than 30.5 KLD in compliance to condition of earlier EC No-SEAC - 2012/CR-201/TC-2 dt 31.12.2015. Will comply to specific condition after commissioning of expansion project
3	PP propose to use imported coal, briquette and HSD as fuel for boiler PP to carry out comparative study for different scenarios of fuel use like briquette, HSD/Imported coal with respect to the emission and pollutants like SOx, PM10, PM2.5, SPM etc. PP to choose combination of fuel having minimum air pollution impact and communicate.	Comparative study carried out and submitted to SEAC.
4	PP to ensure to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.	Regular Safety training/ Refresher training conducting to regular employees, last training conducted In July 2023 Will comply to specific condition for training of new employees after commissioning of expansion project
5	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure is storage/ handling as per compatibility.	Compatibility matrix prepared and materials are stored and handled accordingly
6	PP to provide Continuous Online Monitoring system connected to the server of CPCB AND MPCB. PP to include VOCs monitoring in the scheduled ambient air-monitoring plan.	Treated effluent online monitoring system is provided and connected to CETP server as per MPCB direction. VOC monitoring is done along with ambient air monitoring. Hydro carbon detectors are provided with indication in central control room with hooter
7	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.	Chemicals are handled through close loop and Scrubber is provided on process vent to mitigate VOC emission. Workplace VOC monitoring for Hazardous chemicals are being carried from MoEF approved lab Annexure – 2

8	PP to 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 public road.	Complied Adequate space is provided inside plant premises for parking of all types of vehicles, no vehicle parked on public road.
9	PP to ensure to prepare and implement On Site and Off-site emergency handling plan. The plan shall be prepared based on the HZAOP and Risk Assessment. Provide required training to all employees on the emergency handling plans.	On Site Emergency plan are prepared and periodic mock drills are conducted. Employees are trained periodically on emergency handling. Also participating in Offsite emergency mock drill under direction of local authority. Annexure 3

10	PP to complete rainwater harvesting facility before the commissioning of the manufacturing activity.	Rainwater harvesting system is in place for existing plant. For expansion additional rainwater harvesting facility will be provided during execution of project
11	PP to utilize CER fund (Rs. 2.21 Crore) for development of public infrastructure in the vicinity of the project area in consultation with District Administration	CER Plan is submitted to district administration for approval. Annexure – 4
12	PP to provide solar energy for the illumination of common area like administrative building, parking areas, streetlight etc.	Solar power plant is Installed at site and Solar energy is being using for lighting.

SEIAA Conditions:

1	PP has obtained plan approval from MIDC dated 31.10.2022 for plot area in 197910 m2 and Green belt of 65324.92 m2(33.02%) is provided	Complied Annexure-5
2	PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peepal, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVa Vi-2019/C.R.3/F-11,dated 25 th June,20219. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts/arborist.	Miyawaki plantation initiated under guidance of expert. Annexure-6
3	PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.	Complied
4	PP to strictly observe the Hazardous and Other wastes (Management and Trans boundary Movement) Rule2016 as amended time to time	Complied
5	PP to identify all sources of fugitive air pollution on site and provided pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time & Air (Prevention and Control of Pollution) Act,1981 amended time to time	Chemicals are handled through close loop and Scrubber is provided on process vent to mitigate VOC emission. Workplace VOC monitoring for Hazardous chemicals are being carried from MoEF approved lab Annexure – 7
6	PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rule 1989 amended time to time to ensure no release of any chemicals to the atmosphere and leakage to the soil	Complied

7	PP to ensure transport, storage, handling and use of flammable/ toxic chemicals as per conditions stipulated in license/ approval of Petroleum & Explosive Safety Organization (PESO)	Complied
8	PP to obtain approval and License from Directorate of Industrial Health & Safety (DISH) 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 audit	Complied for existing plant- Annexure- 8 & 9 Will comply for proposed expansion project
9	PP to provide solar energy for illumination of Administrative Building, Street Lights and Parking area	Solar power plant is Installed at site and Solar energy is being using for lighting.
10	PP to ensure 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	Will comply for proposed expansion project
11	PP to provide roof to Rainwater Harvesting facility	Rainwater Harvesting system is in place for existing plant. For expansion additional rainwater harvesting facility will be provided during execution of project
12	PP to ensure that proposed project is ZLD	Noted

General conditions

Sr	Conditions Details	Current Status
I	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website http://parivesh.nic.in	Complied – Advertisement of EC published in Marathi and English in Raigad Times and Dainik Sagar dt 27 07.2023 Pls. Refer Annex - 10
II	The project proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental 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 Control Board, SEIAA and Regional Office of MoEF & CC at Nagpur, on 1 st June & 1 st December of each calendar year.	Complied. Regular submission of compliance status is done on these dates
III	Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific timeline for its completion. The cost shall be included as part of the project cost. The funds earmarked 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.	Noted Environment related investment submitting in Annual Env't. Statement submitting for each financial year Month wise expenditure- Annexure- 11
IV	A separate environment management cell with qualified	Complied, Annexure - 12

	staff shall be set up for implementation of the stipulated environmental safeguards.	
V	In the event of the failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment regained.	Noted
VI	PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.	Noted
VII	PP to provide separate drains for storm 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.	Separate storm water and effluent drain are provided.
VIII	Periodic monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	MIDC – Regional Office has not permitted to drill bores for ground water sampling in the factory plot premises. Industries association MMA has submitted a request letter to CEO MIDC for allowing the industries drill bore for sampling, Condition compliance will be done once MIDC approves it. Refer the annex -13
IX	The overall noise levels in and around the factory premises shall be kept within the prescribed standards under the Environment (protection) Act, 1986 and rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like earmuff and ear plug etc.	Noise measurement from MoEF approved lab is being carried out and ensure limits are well within the prescribed limit Annexure – 14
X	Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.	Gas detectors, Smoke detectors and Heat detectors are installed in factory premises with indication and Hooter in control room
XI	PP to scrupulously follow the requirements of Maharashtra Factories Act, 1984 & Rules 1963 as amended from time to time.	Noted and complied
XII	The Environmental statement for each financial year ending on 31 st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as 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.	Complied, Last Environment statement submitted on 13.09.2023 Annexure- 15
4	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	Noted
5	In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation	Noted

	and initiate appropriate legal action under Environmental Protection Act, 1986.	
6	The Environment department reserves the right to add any stringent condition or 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
7	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amended time to time (MoEF & CC Notification dated 29th April, 2015.)	Noted
8	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Noted
9	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments	Noted
10	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, Within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

[illegible]

Annexure – 2
Work Place Monitoring

		<p align="center">PAPL</p> <p>PADMAJAAEROBIOLOGICALS PVT. LTD. Public Testing Laboratory Recognized by Ministry of Environment Forest & Climate Change (MoEFCC) Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024 ISO 9001 : 2015, ISO 45001:2018 Certified CIN : U73100MH1995PTC0002502 NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2025</p>		
AIR-F-002B				
<u>CERTIFICATE OF ANALYSIS</u>				
<u>ANALYSIS REPORT FOR WORK PLACE MONITORING</u>				
Sample / Report Ref. No.	927/A-313/03-24			
Work Order No.	—			
Report Date:-	21/03/2024			
Name of Industry	M/s. Pidilite Industries Ltd.			
Address:	Plot No.A-21/1,A22/1 & A21/2, MIDC Industrial Area, Mahad, Dist. Raigad - 402 309, Maharashtra.			
Sample Collected by	PADMAJAAEROBIOLOGICALS PVT. LTD.			
Date of Sampling	15/03/2024			
WORK PLACE MONITORING LOCATION				
Location of H. V. S.: Near Tank Farm Area				
Duration	: 120 Min.			
Time	: 10:15 hrs to 14:15 hrs			
POLLUTION PARAMETERS				
Parameter	Result	Limit	Unit	Method
Styrene Conc.	< 0.05	50	ppm	G.C.
Acrylonitrile Conc.	< 0.05	2.0	ppm	G.C.
<p>Remark: Limit as per Factories Act 1948, Schedule II</p> <p>Instrument used: - Polltech make Model PEM-PAS1 LD. No. PAPL/LAB/056</p> <p>Instrument Calibration Due date: - 28/02/2025.</p> <p>Note: This test report may not be produced in part or full, without the permission of this laboratory.</p> <p>This test report refers only to the sample collected by lab for testing.</p>				
 Analyst	 Reviewed by	 Authorized Signatory		
— End of test report —				


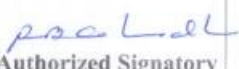
Annexure 2A



PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.
Public Testing Laboratory
Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)
Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024
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CIN : U73100MH1995PTC092502
NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2025

AIR-F-002B

CERTIFICATE OF ANALYSIS				
ANALYSIS REPORT FOR WORK PLACE MONITORING				
Sample / Report Ref. No.	925/A-311/03-24			
Work Order No.	----			
Report Date:-	21/03/2024			
Name of Industry	M/s. Pidilite Industries Ltd.			
Address:	Plot No.A-21/1,A22/1 & A21/2, MIDC Industrial Area, Mahad, Dist. Raigad - 402 309, Maharashtra.			
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.			
Date of Sampling	15/03/2024			
WORK PLACE MONITORING LOCATION				
Location of H. V. S.: Near Hazardous Area First Floor				
Duration	: 120 Min.			
Time	: 10:15 hrs to 12:15 hrs			
POLLUTION PARAMETERS				
Parameter	Result	Limit	Unit	Method
NH ₃ Conc.	< 0.014	25	ppm	IS:5185 (Part-25):2018
Styrene Conc.	< 0.05	50	ppm	G.C.
Remark: Limit as per Factories Act 1948, Schedule II Instrument used: - Bharti Make & Model 821 I.D. No. PAPL/LAB/058 Instrument Calibration Due date: - 28/02/2025. Note: This test report may not be produced in part or full, without the permission of this laboratory. This test report refers only to the sample collected by lab for testing.				
 Analyst		 Reviewed by		 Authorized Signatory

----- End of test report -----

Annexure 3
Mock drill report

Unit Name:	Pidilite Mahad A 22/1
Date:	13.02.2024
Time:	12.15 Hrs

BRIEF DETAILS OF THE INCIDENT SIMULATED

VENUE:	VAM Tank T310	
PARTICIPANTS:	Team Leader	H R Pawar
	Fire Fighting Team	R R Kamble K S Sawant B T Jadhav Kadam (Sec.) Mr Naresh Pawar Kailash Sawant
	Mechanical Coordinator	Babaji Jadhav
	Gate Security	Mr Deshmukh and Mr Kadam
	S C B A Set	Mr Vaibhav Shinde
	Fire & Safety coordinator	Vilas Attarde/ Umesh Dhamnse
	Emergency controller	Mr Ganesh S Landge
	Site Controller	Suresh Patil
	Head Count	Not evacuated
	Casualty	Mr Kailash Sawant
	Panel Operator/ CR	M B Bandal
	Fire Operator	S R More
	Amb / Male Nurse	Deepak Vaibhase /Dipak Pawar
	Production coordinator	Suraj Wandile
	Store and Dispatch	G K Modhave
	Inst./Elec. coordinator	Mr Vilas Kolekar/Santosh D
INCIDENT DESCRIPTION	Spillage of Vinyl Acetate Monomer from Tank Bottom resulted Fire	
INCIDENT CONTROLLER	Ganesh S Landge	
SITE CONTROLLER	Suresh Patil	

Sequence of operation with time line actions

Sr.	Planned Time Hrs	Action	Action By	Actual Time in Hrs
1	12.10	Tank farm Operator observed heavy leakage of Vinyl Acetate Monomer in pipe rack transfer line in Dyke wall resulted fire Tried nearby Fire extinguisher and not able to controll	PFO	1210 Hrs
2	1211	TFO informed to DCS PO regarding spillage and smell nuisance and Fire , At the same time PO noticed alarm with indication ON GD panel PO informed to Shift In charge and ask to stop all monomer pump.	TFO/PO	1212 Hrs
3	1213	Shift in charge visited tank farm area and assess the situation and understood most likely to affect our main road RM storage and Tan Farm area Instructed panel operator to declare emergency by sounding 1 min waxing waning siren	S-I-C	1213Hrs
4	1214	ERT Reported assembly points No 1. Team leader given them various assignment to respond immediately. 3 members started Fire Fighting Ask other team member to keep ready foam trolley ready and use , Safety Goggle , Fire Suit & SCBA and Gas Mask and ready in tank farm area	S-I-C (TL)	1214 Hrs
5	1215	Align foam generation by operating fixed foam trolley and Hydrant hose towards tank farm site	Team Member	1215 Hrs
6	1517	SIC ask TFO, RM store to stop all transfer activity and nearby Hot work if any Started chilling to other monomer storage tanks Started external Sprinkler to VAM tank to cool	SIC	1217 Hrs
7	1217	Considering Wind direction shift in charge evacuated the nearby person from Tank Farm, Engineering store, dispatch office and nearby area as to assemble near Assembly point No 2	Team Leader/ Site Controller	1218 Hrs
8	1218	After receiving the telephonic information & hearing emergency siren , Security informed CDC, SC, all HOD/Section In charge & depute his staff for Fire Fighting	Sec. Supervisor.	1219 Hrs

9	1220	All Section Head/ Dept Head assisted in various operation to MIC and SC, if the person is not available responsibility goes to down level	HOD	1222 Hrs
11	1222	Arrested drain water flowing out side by putting sand or soil and arrange to pump in ETP or collect in ETP if contaminated	ERT members	1225 Hrs
11	1225	CDC is in at ECC and takes stock of situation and all plant personnel to be alert at assembly point no 2 and evacuate for head counting at assembly point no 2	CDC	1226 Hrs
12	1226	Site Controller ask Team Leader sent one ERT member by using SCBA for any person trapped in surrounding area	SC	1227 Hrs
14	1227	CDC will contact neighboring industry regarding severity and status for further action	TL	1229 Hrs
16	1228	One of the causality reported during emergency operation , First given at site and shifted in factory OHC	TL/ SC	1229 Hrs
19	1229	CDC Phones up to ERC [101] for aid i.e Fire Tender , Ambulance, Mahad Municipality Fire Tender	CDC	1230Hrs
20	1231	Site Controller after seeking consent of CDC decides for complete Evacuation, He informs PO to Sound evacuation siren and give paging for Evacuation & inform to nearby industries / resident – Not done as emergency controlled	CDC	1231Hrs
22	1233	Panel operator, Shift electrician and Instrument technician constant touch with site controller	Engg Tech.	1234 Hrs
23	1235	CDC asked to Panel operator to monitor LEL level in and surrounding area of Tank area	Team Member	1236 Hrs
24	1236	Male Nurse from OHC sends message to CDC one causality needs to be shifted to MO for further treatment as severe pain in leg and swelling	Male Nurse	1238 Hrs
25	1238	Team leader and Site controller concluded fire extinguished in neighboring industry and ensure from CDC & no further consequences to normalize the operation	Site Controller	1239 Hrs
31	1239	PO Sound All clear sire after instruction received from CDC	PO/ All concerned.	1240 Hrs

32	1240	CDC, SC and all section head decided to restore the work and no any further harm to plant / machinery and persons working in factory and restored all operation safely	CDC/SC	1242 Hrs
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Observers: - 1) Scenario Site – Vilas Attarde

Abbreviation: ERT – Emergency Response Team.

S-I-C – Shift in charge.

PO- Panel Operator.

SC – Site Controller.

CDC – Chief Disaster Controller.

ECC- Emergency Control Center.

ERC – Emergency Response Center [Fire Station MIDC]

ASSEMBLY POINTS CHECKLIST:

Area Knowledge to all the participants	Yes
People assembled in 5-7 minutes of disaster	Yes (within 3 min)
Attendance Taken	Yes (Matched) not called at assembly point to avoid gathering
Reporting mechanism to the Incident controller for possible evacuation	Yes , Through Siren, Telephone
Siren for all clear	1 min continuous siren for all clear
Time for incidence and time for all clear	22 min
The leadership quality of the personnel designated to control at assembly point	Leadership quality was satisfactory

EMERGENCY SQUAD:

Equipment resource	Required resources Fire Hydrant , Fire Extinguishers , Foam trolley and PPE
Equipment Operation, fire extinguisher, Hydrants opening, goggles, fire suites etc.	Yes performed during the drill
Time of arrival at site:	1213 hrs
Time for controlling emergency	22 min
Time taken to controlling emergency	Satisfactory, improvement points are there

Evacuation process knowledge of the team. Satisfactory, Unsatisfactory	Head count data matched by admin team
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FACILITY EVALUATION:

Fire Extinguishers work ability and appropriateness	Yes , all fire extinguishers are healthy and working position
Hydrants working, Jet power, hose pipe fitting etc.	Working conditions, foam monitor operated which is available nearby, Tanker Unloading area sprinkler operated ,Mobile foam trolley brought at site for any further requirement Wind direction considered during Mock drill , Stretcher for causality shifting, Ambulance
Emergency Control room equipment's facility adequate or not adequate as per OEP	Emergency control room facility is adequate like site map, telephone number, telephone line, On Site emergency plan. Paging through phone , Use of Walky/ Talky
Medical Facilities like CPR , first aid and Oxygen cylinder etc.	Ambulance brought at site to shift causality if any further treatment

Good Observation: -

1) Emergency all walky talky switched on 1 which emergency communication to all

2)Foam monitor operation started immediately

RECOMMENDATIONS FOR THE IMPROVEMENTS IN THE OEP OR MANAGEMENT ACTION

Shortcoming / Gap Observed	Action Plan	Responsibility	Target Date
Unloading point sprinkler valve tagging is to be done for easy identification	Tagging will be complete	VMA	15.03.2024
During mock drill area Barrication is to be done as a part of access control	Will include as part of sequence of mitigation	VMA	Next Mock drill
In leakage scenario maintenance person needs wear SCBA to attend leakage, discuss in review meeting and closed.	TL and SC needs to depute	HRP/SSP	Next Mock drill
Portable foam trolley location and target awareness to be increase by refresher training.	Refresher training is to be plan	VMA	15.4.2023

Incident Controller :

Emergency Controller

NAME: Suresh Patil

NAME: - Ganesh Landge

Prepared By :- Vilas Attarde

Few Photographs of Mock drill dt.13.02.2024



Prepared By:- Vilas Attarde

Prepared by: - Vilas Attarde

Annexure – 4
CER plan submitted to District Emergency Authority

Acknowledgement



05.08.2022

To,
Honorable,
Collector & District Magistrate,
Raigad, Maharashtra

Subject: - Application for approval of Corporate Environment Responsibility (CER) activities for the proposed expansion project by Pidilite Industries Limited at plot No- A-21/1, A-21/2 & A- 22 /1, MIDC Mahad, Dist. Raigad, Maharashtra.

Respected Sir/Madam,

We, Pidilite Industries Limited propose an expansion project for the manufacturing of Polymer based on Vinyl Acetate and Poly Vinyl Alcohol & Adhesives based on Vinyl Acetate and Poly Vinyl Alcohol at Plot No.: A-21/1, A-21/2 & A-22/1, Mahad MIDC, Raigad 402309, Maharashtra; For which we have submitted an EC application to Maharashtra Environment Department under B-1 category.

Keeping in view of the CER O.M of 1st May 2018; Pidilite Industries Limited has earmarked Rs. 2.21 Cr. (This is 0.75% of proposed additional cost i.e. Rs. 294.93 Cr.) for undertaking the CER activities. With reference to this, kindly find the proposed CER activities attached as Annexure -I. CER activities are based on actual need analysis study done by Functional Area Expert for Socio-Economics. Lataraje Bawadekar from NABET accredited consultant Goldfinch Engineering Systems Private Limited Thane.

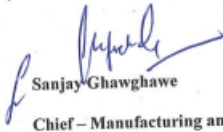
However, as per the OM of CER, "The environmental Clearance given to a project may involve a situation where the concerned company is yet to make any net profit and/or is not covered under the preview of the aforesaid Act and Rule. In such cases, the provision of the aforesaid Act and Rules will not apply". Hence, these proposed CER activities will be executed by Pidilite India Limited, only when the project makes profit.

Your approval is mandatory before submission of the same to SEAC-1. Kindly give your approval for the proposed CER activities with your valuable suggestions as per the requirement of the district as early as possible.

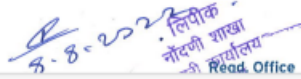
Thanking you,

Yours Faithfully

For Pidilite Industries Limited


Sanjay Ghawghawe
Chief – Manufacturing and Operations

Encl.-Annexure -I


लिपिक
नॉदमी शाखा
जो कार्यालय
Read. Office

Corporate Office
Ramkrishna Mandir Road,

Pidilite Industries Limited
Works
Plot No. A-21/1, A-21/2, A-22/1, MIDC

Annexure – 5 MIDC Approval letter



MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(A Government of Maharashtra Undertaking)

PLAN APPROVAL
(Addition/Aleration)

IFMS No.SPA/MHD/D-52627/of'2022,
Office of the Executive Engineer,
MIDC, Civil Division, Mahad.
Date :- 21 / 10 / 2022.

To,
M/s. Pidilite Industries Ltd.,
Plot No.A-21/1, A-21/2 & A-22/1,
Mahad Indl. Area,
Mahad.

- Sub :- 1) Building Plan Approval
2) Water Supply Connection
3) Drainage Plan Approval (Internal Works)
4) Provisional Fire NOC
5) CETP Membership

Ref :- Online application vide SWC/20/521/20220214/813106,
Dtd. 04.03.2022.

Dear Sir,

You have submitted application for approval to 1) Building Plan 2) Water Supply Connection 3) Drainage Plan (Internal Works) 4) Provisional Fire NOC 5) CETP Membership.

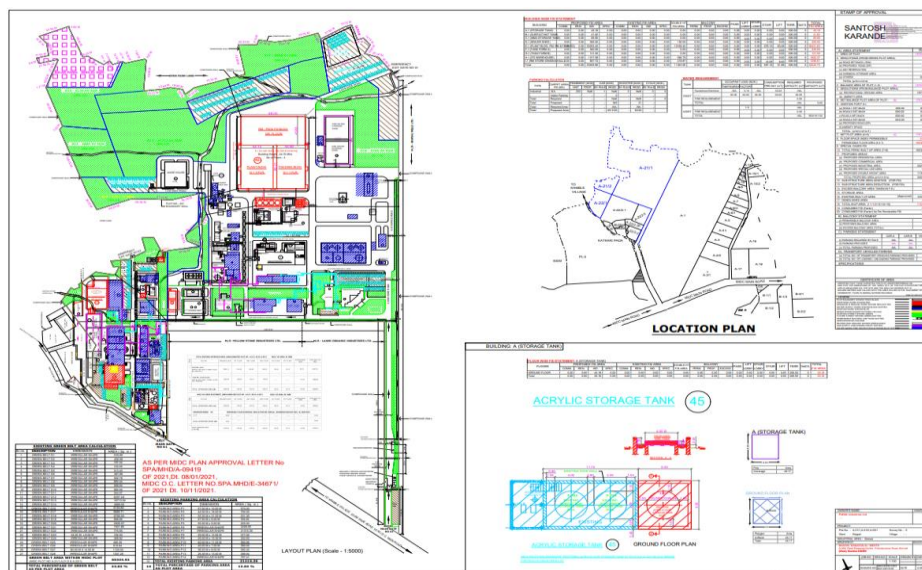
Above application are examined and following approvals are hereby granted...

A) Building Plan Approval - Since you have paid following

Sr.No.	Particulars	Advance Payment Challan Paid vide MCH/1916/2022 dated 10/03/2022	Adjustment Payment Challan paid vide MCH/7994/2022 dated 20/10/2022.
1.	Scrutiny Charges	Rs.2408.33	Rs.174591.66
2.	Development Charges	Rs.19134.00	Rs.261040.23
3.	Compound wall	Rs.250.00	Nil
4.	Labour cess	Rs.12756.00	Nil
5.	Fire Charges	Rs.2500.00	Rs.2661745.01
Total Amount		Rs.37049.00	Rs.3097376.90

- 1) The set of plans, received from you vide your letter cited above, is hereby approved subject to acceptance and follow up of following conditions by you.
2) You had submitted plans and drawings for **34544.75 Sqm** of built up area for the plot area of **197910.00 Sqm**, at present this office has approved plans for total upto date **71576.94 Sqm**. of built up area. This office has approved **Six Nos** of drawing details of which are mentioned on the accompanying statement.

Annexure -5 A



Annexure - 6

Tree Plantation (Miyawaki techniques plantation)



Annexure- 7



PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognized by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto: 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC082502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2025

AIR-F-002B

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR WORK PLACE MONITORING

Sample / Report Ref. No.	926/A-312/03-24
Work Order No.	---
Report Date:-	21/03/2024
Name of Industry Address:	M/s. Pidilite Industries Ltd. Plot No.A-21/1,A22/1 & A21/2, MIDC Industrial Area, Mahad, Dist. Raigad - 402 309, Maharashtra.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	15/03/2024

WORK PLACE MONITORING LOCATION

Location of H. V. S.: Near Hazardous Area Second Floor

Duration : 120 Min.

Time : 10:00 hrs to 12:00 hrs

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Styrene Conc.	< 0.05	50	ppm	G.C.
Acrylonitrile Conc.	< 0.05	2.0	ppm	G.C.

Remark: Limit as per Factories Act 1948, Schedule II

Instrument used: - Polltech make Model PEM-PAS1 LD. No. PAPL/LAB/056

Instrument Calibration Due date: - 28/02/2025.

Note: This test report may not be produced in part or full, without the permission of this laboratory.
This test report refers only to the sample collected by lab for testing.


Analyst


Reviewed by


Authorized Signatory

— End of test report —

Annexure – 8-
Factory License and Drawing Approval

 आपली सेवा आमचे कर्तव्य	 सत्यमेव जयते महाराष्ट्र शासन औद्योगिक सुरक्षा व आरोग्य संचालनालय (कामगार विभाग) नमूना क्रमांक ४ (नियम ६ व ८ पाहणे)	परवाना क्र : १००२१५६७
कारखान्याची नोंदणी व कारखाना चालविण्याचा संबंधीचा परवाना		
नोंदणी क्रमांक : १२२००२०१३१००३६३		
<p>कारखाने अधिनियम, १९४८ आणि त्यासंबंधी असलेले नियम यांच्या तरतुदीप्रमाणे पिडीलिटे इन्डस्ट्रिज लिमिटेड यांना खाली वर्णन केलेल्या जागेत कारखाना चालविण्यास परवाना देण्यात आला आहे.</p> <p>या परवान्याचे या जागेत कोणत्याही एका दिवशी ५०० पर्यंत कामगार लावण्यास आणि २००० पेक्षा जास्त अश्वशक्ति उपयोगात आणण्यास परवानगी आहे.</p> <p>या परवान्याची मुदत ३१ डिसेंबर २०२३ पर्यंत आहे.</p> <p>शुल्क रु. ९४५०३.६० पोहोचले</p> <p>दिनांक : २४-०२-२०२१</p>		
		Digitally Signed by Mukesh Patil Date: 2/24/2021 4:25:04 PM
		Signature valid 
सह संचालक औद्योगिक सुरक्षा व आरोग्य, महाराष्ट्र राज्य, रायगड		
परवाना दिलेल्या जागेचे वर्णन		
परवाना दिलेल्या कारखान्याचे Factory Name :	पिडीलिटे इन्डस्ट्रिज लिमिटेड Pidlite Industries Limited	
पत्ता :	प्लॉट नं ए२१/१ ए२१/२ वीथ ए२२/१, कांबळे विलेज रोड, एमवाईडीसी, महाद, रायगड, महाराष्ट्र, ४०२३०९	
Address :	Plot no A21/1 A21/2 and A22/1, Kamble village road, MIDC, Mahad, Mahad, Raigarh, MAHARASHTRA, 402309	
कलम :	२०१३	
औद्योगिक वर्गीकरण :	२०१३१	
कारखान्याच्या इमारतीचे नकाशे दिनांक ०५.०१.२०२१ च्या जायक क्रमांक १२२०००००००२३३०२ खाली मंजूर केले गेले आहेत.		
This Certificate is digitally signed by on.		
टिप : हा कारखान्याची नोंदणी व कारखाना चालविण्याचा परवाना आहे. हा परवाना देण्यात आल्यामुळे ज्या जागेत हा कारखाना स्थित आहे, त्या जागेस कोणतीही वैधता आपोआप बहाल होत नाही तसेच ज्या जागेत हा कारखाना स्थित आहे ती जागा आज दिनांक वेळेस अस्तित्वात असल्या संबंधात या परवान्यामुळे कोणताही हक्क व स्वामित्व सदरहू भोगवटदारास प्राप्त होत नाही		

Annexure -9
Drawing Approval from DISH



महाराष्ट्र शासन
औद्योगिक सुरक्षा व आरोग्य संचालनालय

JOINT DIRECTOR INDUSTRIAL SAFETY & HEALTH RAIGAD Room No 522, 5th Floor Konkan Bhavan CBD Belapur Navi Mumbai, 400 614

Ref No: 122000000030073

दिनांक : 28/12/2022

प्रति

भोगवटादार / व्यवस्थापक,

Pidilite Industries Limited
Plot no A21/1, A21/2 and A22/1, Kamble village
road, MIDC, Mahad, Mahad, Raigarh, MAHARASHTRA, 4023
09

विषय: कारखाने अधिनियम, १९४८ खाली कारखाने नकाशे मंजुरीबाबत, इमारत त्याची बांधणी/कारखान्याची पुनर्रचना किंवा वाढीव बांधकाम.

संदर्भ: आपले पत्र क्र. १००७११२२२२१

दिनांक : ०८/१०/२०२२

उपरोक्त विषयाच्या संदर्भात नकाशाच्या दोन प्रतीपैकी एक प्रत मंजूर करून खालील अटीनुसार देण्यात येत आहे.

अटी

- 1 This approval is in continuation with the previous approval Ref no- 122000000023302 dated 05/01/2021 and extends to addition of structures, building & equipments marked in red/pink colour & deletions marked in yellow colour only.
- 2 All electrical installations in the area where highly flammable solvents are used/ handled/stored, shall be of flameproof construction
- 3 Provisions of the Schedule XXIII of the Rule 114 of The Maharashtra Factories Rules 1963 in respect of highly flammable solvents & compressed gases shall be complied with.
- 4 Non-compatible chemicals shall identified & be stored separately.
- 5 Dyke wall of adequate capacity shall be provided to the storage tanks of chemicals.
- 6 Risk Assessment based on maximum credible loss scenario in respect of storages of Solvents / hazardous chemicals shall be carried out and recommendations suggested there under shall be complied with
- 7 Certificate of Stability shall be obtained in form No.1-A and copy shall be submitted to office as per Rule 3-A of Maharashtra Factories Rules, 1963.
- 8 HAZOP study shall be carried out for every process and recommendations suggested there under shall be complied with.
- 9 On site emergency plan, based on maximum credible loss scenario shall be prepared and copy of the same shall be submitted to office
- 10 Provisions of Rule 70 of Maharashtra Factories Rules, 1963 in respect of fire protection shall be complied with
- 11 Fire fighting arrangements shall be provided as per the Rule 71-B of the Maharashtra Factories Rules 1963.

Signature valid
Digitally Signed by
Vikram V. Kamwar
Date: 12/28/2022 3:02:23 PM

आपला विश्वासू

सह संचालक

औद्योगिक सुरक्षा व आरोग्य, रायगड



यांचे पती यांच्या पत्नीने पत्रकारांशी बोलताना त्यांनाच वाऱ्यावर साड्याव घासले. पु. ज. दीवासी सांगितले. नाही असे त्यांनी सरतेशेवटी बोलताना पाहिले. मुले आणि नातवांसह दिल्लीत सांगितले.

TO WHOMSOEVER IT MAY CONCERN ENVIRONMENTAL CLEARANCE

We Pidilite Industries Limited pleased to inform that, the Environment Department, Government of Maharashtra has accorded Environmental Clearance (Reference No. EC Identification No. – EC23B000MH149898 File No. – SIA/MH/IND3/82941/2021 Date of Issue EC – 21/07/2023 for expansion project for manufacturing of polymers at Plot No.-A21/1, A21/2 and A22/1, MIDC Mahad, Tal. Mahad, Dist. Raigad – 402309, Maharashtra. Total production capacity of product will be 166,000 MTPA. The Environment Clearance letter is available with the MPCB and may also be seen at website at <http://parivesh.nic.in> and <http://www.ecmpcb.in>

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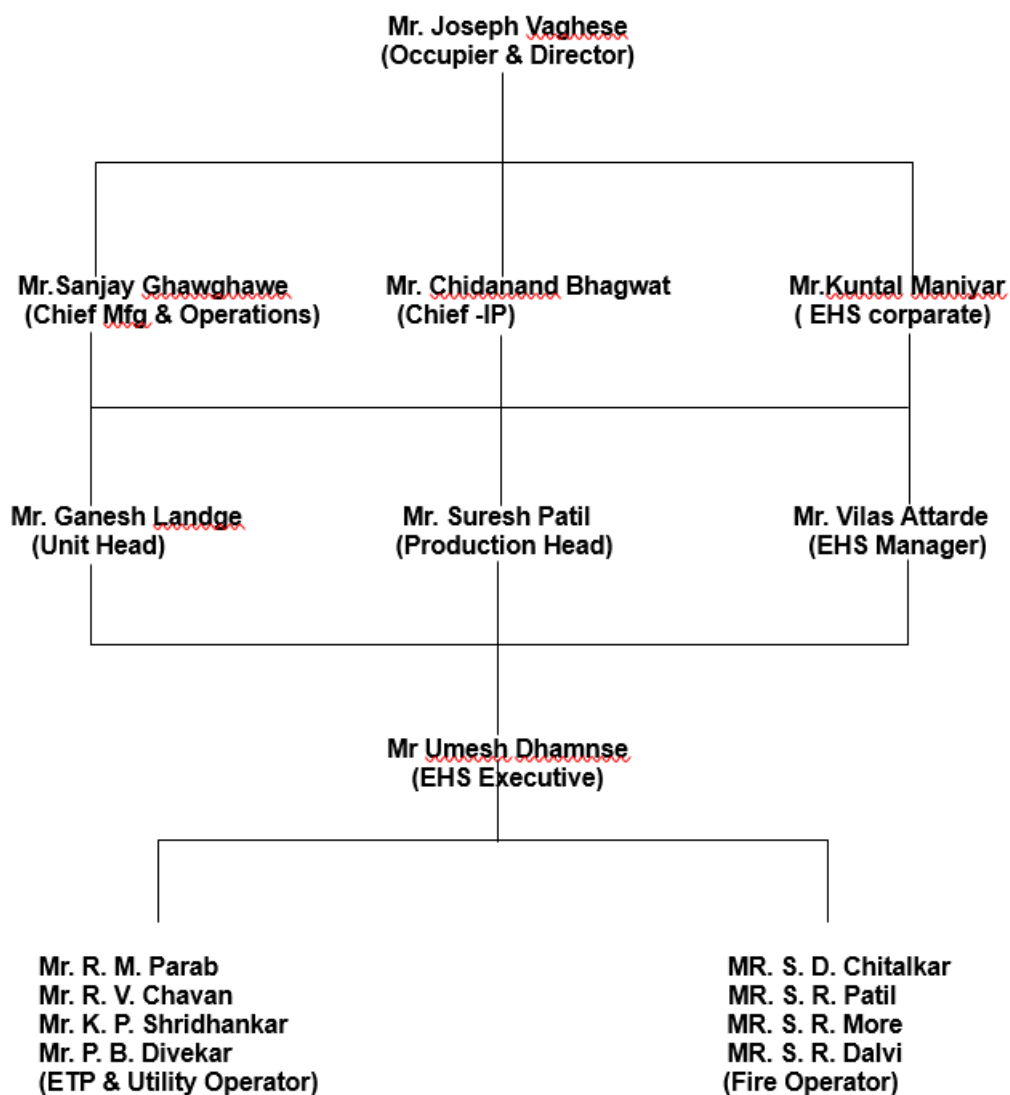
Annexure -11

Half Yearly Environment Cost 2023-2024				
Sr. No.	Attributes	Specific Measures	Cost	Remark
1	Water & ETP Operation	ETP/STP Effluent Treatment	1695494	
2	Hazardous Waste	Disposal to CHWTSDf	2118223	
3	Rainwater Harvesting	Use of Rainwater	39270	
4	Green Belt Development	Potholes digging/saplings/Labour cost/Fertilizers	710000	
5	Regular Monitoring of ambient air,noise,workplace from MOEF approved lab	Monitoring from MOEF lab	98222	
7	Ultrafiltration membrane	ETP treatment	800000	

Environment Cell

Pidilite A 21/1, A 21/2 and A22/1

Environmental Management Cell



EXECUTIVE COMMITTEE

President Emeritus
Mr. Suresh S. Bhonsle
 suresh.bhonsle@gmail.com
 M. 9819830246

President
Mr. S. B. Pathare
 M/s. Privi Organics India Ltd.
 (O) 9167219216

Vice President
Mr. Manoj Sharma
 M/s. Olon India Ltd.
 (O) 661301

Secretary
Mr. Mahesh Purohit
 M/s. Vinati Organics Ltd.
 (O) 7350012841

Jt. Secretary
Mr. Ramesh Malusare
 M/s. Titan Laboratories Ltd.
 (O) 232569

Treasurer
Mr. Sanjay Sawant
 M/s. Odyssey Organics Pvt. Ltd.
 (O) 9766615107

EXECUTIVE MEMBERS

Mr. Ashok Talathi
 M/s. Mars-Chemie Pvt. Ltd.
 (O) 232129

Mr. Rajeev Wadnerkar
 M/s. Aquapharm Chemical Pvt. Ltd.
 (O) 9920060566

Mr. M. S. Tamahankar
 M/s. Embio Ltd.
 (O) 234751

Mr. Sagar Jadhav
 M/s. Pidilite Ind. Ltd.
 (O) 232043

Mr. Sanjay Sapate
 M/s. Laxmi Organic Ind. Ltd.
 (O) 232217

Mr. Dilip Parkhe
 M/s. Aezis Globe Pvt. Ltd.
 (M) 9403367501

CHAIRMAN MARG & EC MEMBER

Mr. Amit Salagare
 M/s. Nouryon Chemicals India
 Pvt. Ltd. (O) 9049008519

CHAIRMAN HR FORUM

Mr. Prashant More
 M/s. Dufon Polymer Ltd.
 (O) 233799

CHAIRMAN CULTURAL COMMITTEE

Mr. Bipin Wadgaonkar
 M/s. Aquapharm Chemical Pvt. Ltd.
 (O) 9028715149

**Mahad Manufacturer's Association**

P-43, MIDC Industrial Area, Mahad, Dist. Raigad Pin 402 309 (Maharashtra)
 Tel. (02145) 232738 email :mma.cetp@mmamahad.com

MMA/Office/2020-21/ 12

Date: 02/07/2020

To,
 The Chief Executive Officer,
 Maharashtra Industrial Development Commission
 Udyog Sarthi, Mumbai

Subject: Request to allow Industries to drill Bores for Ground Water Sample Points within the MIDC plots for Environmental Clearance Conditions Compliance

Dear Sir,

In Mahad Industrial area there are near about 200 industries working. Most of these industries are Chemical and Pharmaceutical Industries. In Mahad industrial area all Member industries and MMA, CETP working hard on protecting the Environment. After looking at our efforts, MMA CETP was awarded with Vasundhara Award in 2017 by Ministry of Environment and MPCR. Also MIDC gave us chance to represent our success story in Envirotech Asia international Conference in 2018.

As per EPA, Environmental Clearance is critical aspect for new industries as well as expansion of existing industries. Industries do obtain the Environmental Clearance before starting of new industry or expansion of existing capacities. It is mandatory on the part of industry to comply with all the conditions mentioned in the Environmental Clearance. One of the standard conditions of Environmental Clearance is "Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board." Few of our member industries have approached the Mahad MIDC office, to get permission for drilling Bores for Sampling of Ground Water. Mahad MIDC Office had replied that as per MIDC Development Control Rules, this office is not permitted to issue such permission to drill bores in factory premises.

Whereas the EC Compliance Inspection authorities from MoEF record it as non-compliance due to non-availability of ground water sample reports. It is a big hurdle for industries for complying with the Environmental Clearance conditions and thus impact new industry and the further addition of capacities.

Industries are already in trouble due to Covid 19 situation and such delays for commissioning of new industries and expansion of the existing industries having adverse impact on economy.

We request you to consider this situation and allow industries to have bores within the MIDC plot area for ground water sampling points as per Environmental Clearance

EXECUTIVE COMMITTEE

President Emeritus
Mr. Suresh S. Bhonsle
suresh.bhonsle@gmail.com
M. 9819830246

President

Mr. S. B. Pathare
M/s. Privi Organics India Ltd.
(O) 9167219216

Vice President

Mr. Manoj Sharma
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Secretary

Mr. Mahesh Purohit
M/s. Vinati Organics Ltd.
(O) 7350012841

It. Secretary

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M/s. Laxmi Organic Ind. Ltd.
(O) 232217

Mr. Dilip Parkhe
M/s. Aczis Globble Pvt. Ltd.
(M) 9403367501

CHAIRMAN MARG & EC MEMBER

Mr. Amit Salagare
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CHAIRMAN HR FORUM

Mr. Prashant More
M/s. Duflon Polymer Ltd.
(O) 233799

CHAIRMAN CULTURAL COMMITTEE

Mr. Rishi Wadgaonkar




Mahad Manufacturer's Association

P-43, MIDC Industrial Area, Mahad, Dist. Raigad Pin 402 309 (Maharashtra)
■ Tel. (02145) 232738 ■ email :mma.cetp@mmamahad.com

condition. Our member industries will give an undertaking to MIDC to use such points only for Ground Water Sampling and not for any other purpose.

Please consider the request positively and issue permission / guideline for allowing the MIDC plot holders to drill bores for Ground Water Sampling purpose in compliance to Environmental Monitoring as per EC conditions.

For Mahad Manufacturer's Association


S. B. Pathare
President

CC-

Dy. CEO (Environment)- MIDC, Mumbai
Chief Engineer- MIDC, Mumbai
Superintendent Engineer – MIDC, Konkan
Executive Engineer- MIDC Mahad

Annexure- 14
Noise Measurement



PAPL
PADMAJA AEROBIOLOGICALS PVT. LTD.
Public Testing Laboratory
Recognized by Ministry of Environment Forest & Climate Change (MoEFCC)
Gazette Notification No. S.O.3744(E) Valid upto: 16.10.2024
ISO 9001 : 2015, ISO 45001:2018 Certified
CIN : U72100MH11905PTC082502
NABL Accreditation Certificate No. TC-6088 Valid upto 31.12.2025

AIR-F-007

Ref. No.: 929/A-315/03-24

Date: 21/03/2024

Work Order No.: —

Name of the Industry: M/s. Pidilite Industries Ltd.
Plot No. A-21/1, A22/1 & A21/2, MIDC Industrial Area, Mahad,
Dist. Raigad, Maharashtra – 402 309

Date of Sampling: 15/03/2024

CERTIFICATE OF ANALYSIS
AMBIENT NOISE LEVEL MEASUREMENTS

Time	STATION	Noise Level in dB(A) (Day Time)	Noise Level Limit in dB (A)
10:15hrs.	Near Main Gate	65.3	< 75
10:18 hrs.	Near MBR Plant	57.3	< 75
10:21 hrs.	Near Empty Drum Storage Area	65.2	< 75
10:25 hrs.	Near Water Pump	73.6	< 75
10:28 hrs.	Near Propylene Storage	58.9	< 75
10:31 hrs.	Near Punching Office	57.4	< 75
10:35 hrs.	Near FO Storage	58.6	< 75
10:39 hrs.	Near O ₂ N ₂ Plant	56.1	< 75

Remark: —

Instrument used: - Instrument used: - Kusam-Meco KM 929 MK1 Id. No. PAPL/LAB/066

Instrument Calibration Due date: -22/10/2024.

Limits prescribed by C.P.C.B Guidelines.

Limit: - <75.0 dB(A) - (Day Time)

Note: This test report may not be produced in part or full, without the permission of this laboratory. This test report refers only to the sample collected by lab for testing.

Sethil
Analyst

Kusam
Reviewed by

P. S. L. L.
Authorized Signatory

— End of test report —

Annexure – 15
Environment Statement



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000057433

Submitted Date

13-09-2023

PART A

Company Information

Company Name

Pidilite Industries Limited

Application UAN number

Pidilite Industries Limited

Address

Plot no A 21/1, A21/2, and A22/1
MIDC Mahad , Tal-Mahad, Dist-
Raigad

Plot no

Plot no A 21/1, A21/2, and A22/1

Taluka

Mahad

Village

Kamble turphe Birwadi

Capital Investment (In lakhs)

228.29

Scale

Large

City

Mahad

Pincode

402309

Person Name

Mr Ganesh S Landge

Designation

Factory Manager

Telephone Number

02145232045

Fax Number

02145232048

Email

ganesh.landge@pidilite.com

Region

SRO-Mahad

Industry Category

Red

Industry Type

other

Last Environmental statement submitted online

yes

Consent Number

Format 1.0/CAC/UAN No. MPCB-
CONSENT-0000139996/CR-2211000561

Consent Issue Date

2022-11-08

Consent Valid Upto

2022-12-31

Establishment Year

1996

Date of last environment statement submitted

Sep 23 2022 12:00:00:000AM

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

Product Information

Product Name

Polymer based on Vinyl Acetate Monomer , Acrylate Styrene, Ethylene Monomers and
Adhesive based on PVA

Consent Quantity Actual Quantity UOM

41100 34553.52 MT/A

By-product Information

By Product Name

NA

Consent Quantity

0

Actual Quantity

0

UOM

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>			
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	110.00	83.70	
Cooling	132.00	99.46	
Domestic	28.00	24.55	
All others	40.00	6.81	
Total	310.00	214.52	
<hr/>			
<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	51.5	28.51	CMD
Domestic Effluent	25	9.1	CMD
<hr/>			
<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Polymer based on vinyl Acetate Monomer , Acrylate,Styrene,Ethylene Monomers and adhesive based on PVA	0.527	0.520	Ton/Ton
<hr/>			
<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
DM water	0.527	0.520	Ton/Ton
Monomers	0.43	0.40	Ton/Ton
catalyst & additives	0.053	0.08	Ton/Ton
<hr/>			
<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
Coal	2919.97	1146.92	MT/A
LDO	1278.9	0.100	MT/A
HSD	1822.08	39.231	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)					
[A] Water					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH	0	6.82	0	5.5 to 9.0	No variation
Oil & Grease	0.02	1	0	10	No variation
BOD	0.78	27.75	0	100	No variation
TDS	38.2	1345.24	0	2100	No variation

Suspended solids	0.24	8.75	0	100	No variation
COD	2.85	100	0	250	No variation
CLORIDES	11.97	423.5	0	600	No variation
Sulphate	6.28	218	0	1000	No variation
TAN	0.54	19.5	0	50	No variation

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
SO2-TFH/Steam generator	5.65	19.07	0	80	No variation
PM-TFH/Steam generator	0	86.35	0	150	No variation
SO2-DG STACK	0	0.58	0	315	No variation
PM-DG STACK	0	59.88	0	150	No variation

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	630	675	Ltr/A
5.2 Wastes or residues containing oil	0.002	0.003	MT/A
23.1 Wastes or residues (not made with vegetable or animal materials)	147.34	200.4	MT/A
23.1 Wastes or residues (not made with vegetable or animal materials)	5.898	6.52	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	6647	5991	Nos./Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	35.44	39.6	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Waste paper, damaged pallets, Sweeping material	56.76	59.160	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Coal Ash	71	63.90	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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0	0	0	Kg
0	0	0	Kg

Part-F

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	675	Ltr/A	Sale to Authorized party/CHWTSDf
5.2 Wastes or residues containing oil	0.003	MT/A	CHWTSDf
23.1 Wastes or residues (not made with vegetable or animal materials)	200.4	MT/A	Sale to authorized party/pre processor/CHWTSDf
23.1 Wastes or residues (not made with vegetable or animal materials)	6.520	MT/A	Sale to authorized party/pre processor/CHWTSDf
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	5991	Nos./Y	Sale to Authorized party/ CHWTSDf
35.3 Chemical sludge from waste water treatment	39.6	MT/A	Sale to authorized party/pre processor/CHWTSDf

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Coal/Fly ash	63.90	MT/A	Sale to cement /brick manufacturer
Waste paper, damaged pallets, Sweeping material	59.160	MT/A	sale to scrap merchant/vendor

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Rain water harvesting	51.86	0	0	0	0	0
Solar power	0	0	0	990391	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacs)
Installation of Briquette fired boiler	Sustainable development initiative to replace coal fired boiler by briquets	140
Installation of surfactant above ground storage tanks	Reduction in Hazardous waste (CONTAMINATED DRUMS)	140.23
Installation of Treated water holding tank	Sustainable development initiative	40

Energy efficient motor replacement	Reduction of natural resources	13.82
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[B] Investment Proposed for next Year

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
General lightning transformer for energy saving. Energy efficient motor replacement	Energy saving	6.0
Installation of clearsep filter to eliminate use of Nylon bags	Sustainable development for Hazardous waste reduction	16
Installation of air sparger for primary effluent collection pit	Improvement for waste water treatment	0.35

Part-I

Any other particulars for improving the quality of the environment.

Particulars

1. Number of trees survived as on 31st March 2023 -2200 (Total-7650 trees available at site) 2. Number of trees planted by September 23 - 200

Name & Designation

Mr Ganesh S. Landge

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000057433

Submitted On:

13-09-2023