



**09 December 2022**

**To,  
The Director,  
Ministry of Environment Forests & Climate Change,  
Regional Office, (WCZ),  
Ground Floor, East Wing,  
New Secretariat Building,  
Civil Lines, Nagpur – 440001**

**Subject: Manufacturing of Chemical Intermediates of Aastrid Life Sciences Pvt. Ltd.  
at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad– Submission of  
the 7<sup>th</sup> half progress/Status Report EC Compliance.**

**Ref:** Environmental Clearance letter no. SEIAA-EC- 0000001492 dated 7<sup>th</sup> May, 2019  
granted by SEIAA, Govt. of Maharashtra.

Dear Sir,

We have received the Environment Clearance from State Environment Impact Assessment Authority (SEIAA), Government of Maharashtra on 7<sup>th</sup> May, 2019 for our Project,

As per the requirement we have made compliances regularly and now we are submitting 7<sup>th</sup> half yearly EC Compliance report of the said project.

Now we are pleased to submit the status of our project during the period of April to September 2022. Kindly consider it as a 7<sup>th</sup> half yearly progress/status report.

With this reference we wish to submit the details required as below:

1. Current status of Project.
2. Data sheet
3. Point wise compliance to stipulation as laid down by ministry.
4. EC letter & Consent to Establish
5. Environmental Monitoring Reports

We hope you will find same in line with your requirements.

Thanking You,

**For Aastrid Life Sciences Pvt. Ltd.**



**Authorized Signatory**

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## **Aastrid Life Sciences Pvt. Ltd.**

Regd. Office : A-593, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400 701, Maharashtra, INDIA. | Tel.: +91 22 4007 2626

Unit - 1 : B-19, MIDC, Birwadi, Mahad, Dist. Raigad - 402 302, Maharashtra, INDIA.

Unit - 2 : FS1 & FS2, Additional MIDC, Mahad, Dist. Raigad - 402 302, Maharashtra, INDIA.

Email: [Info@aastrid.com](mailto:Info@aastrid.com) | Internet: [www.aastridlifesciences.com](http://www.aastridlifesciences.com) | CIN # U24100MH2010PTC200641

### **Present Status of Project:**

**1)** We have published the advertisement of the obtained Environmental Clearance in the local newspaper "Dainic Loksatta" in Marathi and "Daily Indian Express" in English language on 11<sup>th</sup> May 2019 within seven days of getting EC. Copy of Environmental Clearance is enclosed as an **Annexure I**.

**2)** We have received the Consent to Operate from MPCB with No. Format1.0/CC/UAN No. 0000123206/CO-2111000838 dated 22.11.2021 valid upto 31.10.2026. Copy of same CTO is enclosed as an **Annexure II**.

**3)** This is the new project and Aastrid has completed the phase -I and now production has just commenced. Photographs of the admin, QA & QC building, utility building, occupational health center, warehouse, manufacturing unit, ETP, MEE, RO, STP plant, & solar panel are enclosed as an **Annexure III**. Aastrid yet not planning for the phase -II.

**PART I**  
**DATA SHEET**

1.	<b>Project type:</b> River Valley / Mining / Industry / Thermal / Nuclear / Others (specify)	:	Industry
2.	<b>Name of the Project</b>	:	New project for manufacturing of chemical intermediates at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad by Aastrid Life Sciences Pvt. Ltd.
3.	<b>Clearance letter (s) / OM No. and date</b>	:	SEIAA-EC-0000001492 dated 7 <sup>th</sup> May 2019.
4.	<b>Location</b>	:	Raigad
	a) District (s)	:	Maharashtra
	b) State (s)	:	At Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad  Latitude:18° 07' 15.70" N Longitude:73° 31' 51.53" E
5.	c) Location latitude / longitude	:	
	<b>Address for Correspondence</b>	:	Name: Mr. Ravi Jagtap A-514, TTC Industrial Area, MIDC Mahape, Navi Mumbai - 400 701.  Tel. No.: +91 2241122626  Fax Number: +91 22 27782437
6.	a) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	:	
	b) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	:	
6.	<b>Sallient features</b>	:	<ul style="list-style-type: none"> <li>• This is a new project and proposed activity will be achieved phase wise i.e. Phase 1 &amp; Phase 2. For Phase 1, Consent to operate has been obtained and production has just commenced.</li> <li>• Total Production capacity will be 1392 TPA.</li> <li>• The fresh water source from MIDC.</li> <li>• The unit is a Zero Liquid Discharge (ZLD) Unit.</li> <li>• Domestic wastewater is being treated in STP.</li> </ul>
	a) of the Project	:	
	b) of the Environmental Management Plans	:	Total EMP cost during operational phase shall be Capital cost Rs.573 lacs Recurring cost Rs.1125.625 lacs. Environment Management Plan Includes the following: ➤ Air pollution control system includes: Stack of adequate height. ➤ Process emissions control system includes the 2 nos. of process scrubbers.

			<ul style="list-style-type: none"> <li>➤ Water pollution control system includes: Automation &amp; betterment of MEE, ETP.</li> <li>➤ Noise pollution Control Includes Acoustic enclosure and regular maintenance.</li> <li>➤ Occupational Health includes Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, Control of fugitive emissions, Work Place monitoring.</li> <li>➤ Green belt includes maintenance of the same.</li> <li>➤ Hazardous waste disposal includes cost for disposal of the same.</li> </ul>
7.	<b>Break-up of the Project Area</b> a) Submergence area: forest & non-forest	:	Not applicable and forest area is not involved in the project. It is an industrial project located within notified MIDC. i.e. Additional MIDC Mahad.
	<b>b) Others</b>		Total Plot Area: 23228 Sq. m Total Built up Area: 15524 Sq. m Total Ground Coverage Area: 5970.68 Sq. m. Area statement of the project area is attached as an <b>Annexure IV</b> .
8.	<b>Break-up of the project affected population</b> with the enumeration of those losing Houses / Dwelling units only, Agricultural Land & Landless Laborers / Artisans: a) SC, ST / Adivasi	:	Not applicable as no project affected population is there due to the fact that the project is located in the notified industrial area i.e., Additional MIDC Mahad.
	b) Others (please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	:	
9 a)	<b>Financial Details:</b> Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Originally planned project cost: Rs. 80 Crs. Year of Price reference: 2018, Actual project cost: Rs. 73.1819 Crs. Year of Price reference: 2021, Aastrid has completed the Phase-I planning.
b)	Allocation made for environmental management plans with item wise and year wise breakup	:	Total capital cost for environmental management plans: Rs. 573 lakhs

		Total recurring cost for environmental management plans: Rs. 1125.625 lakhs / Year.																																																
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Component</th> <th>Capital Cost Rs. in Lakh</th> <th>O&amp;M Cost Rs. in Lakh/Yr.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Air Pollution Control</td> <td>45</td> <td>10</td> </tr> <tr> <td>2.</td> <td>Water Pollution Control</td> <td>366</td> <td>543</td> </tr> <tr> <td>3.</td> <td>Noise Pollution Control</td> <td>45</td> <td>7</td> </tr> <tr> <td></td> <td>Occupational Health</td> <td>25</td> <td>3</td> </tr> <tr> <td>4.</td> <td>Environmental Monitoring</td> <td>0</td> <td>2.09</td> </tr> <tr> <td>5.</td> <td>Hazardous Waste</td> <td>1</td> <td>550</td> </tr> <tr> <td>6.</td> <td>Mitigation Measures for LCA</td> <td>90.8</td> <td>1.0</td> </tr> <tr> <td>7.</td> <td>Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)</td> <td>18.0</td> <td>4.0</td> </tr> <tr> <td>8.</td> <td>Water Footprint Monitoring (Measures taken to reduce Water footprint)</td> <td>1.2</td> <td>0.015</td> </tr> <tr> <td>9.</td> <td>Green Belt</td> <td>21</td> <td>5.52</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>573</b></td> <td><b>1125.625</b></td> </tr> </tbody> </table>	Sr. No.	Component	Capital Cost Rs. in Lakh	O&M Cost Rs. in Lakh/Yr.	1.	Air Pollution Control	45	10	2.	Water Pollution Control	366	543	3.	Noise Pollution Control	45	7		Occupational Health	25	3	4.	Environmental Monitoring	0	2.09	5.	Hazardous Waste	1	550	6.	Mitigation Measures for LCA	90.8	1.0	7.	Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)	18.0	4.0	8.	Water Footprint Monitoring (Measures taken to reduce Water footprint)	1.2	0.015	9.	Green Belt	21	5.52		<b>Total</b>	<b>573</b>	<b>1125.625</b>	
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c)	Benefit cost ratio/Internal rate of Return and the year of assessment	:	Not applicable as it is a new project and production has just started. Internal Rate of return will be calculated only after realization of production due to proposed activity.																																															
d)	Whether (c) includes the cost of environmental management as shown in the above	:	Yes																																															
e)	Actual expenditure incurred on the project so far	:	Rs. 73.1819 Crs.																																															
f)	Actual expenditure incurred on the environmental management plans so far	:	Rs. 272 Lacs.																																															
<b>10</b>	<b>Forest Land Requirement</b>																																																	
a)	The status of approval for diversion of forest land for non-forestry use	:	Not Applicable																																															
b)	The status of clearing felling	:	Not Applicable																																															
c)	The status of compensatory a forestation, if any Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	Not Applicable																																															
<b>11</b>	<b>The status of clear felling</b> in non-forest areas (such as submergence area or reservoir, approach roads.),	:	Not applicable as the project is located in a notified Industrial area i.e. Additional MIDC Mahad.																																															

	if any with quantitative information required.		
<b>12</b>	<b>Status of construction</b> (Actual&/or planned)		Construction activities for proposed project has been completed and production activities just started. The photographs of the ongoing activity are attached as an <b>Annexure III</b> .
a)	Date of commencement (Actual&/or planned)	:	<b>Phase -I:</b> Planned: 16 Oct. 2019, Actual: 01 Dec. 2019, Yet not planned for the phase II.
b)	Date of completion (Actual&/or planned)	:	<b>Phase -I:</b> Planned: 09 Mar. 2021, Actual: 09 Dec. 2021, Yet not planned for the phase II.
<b>13</b>	<b>Reasons for the delay</b> if the project is yet to start	:	Due to pandemic COVID -19 Situation not able to start project as per planned.
<b>14</b>	<b>Dates of Site Visits</b>		
a)	The dates on which the project was monitored by the Regional Office on previous occasions, if any	:	Not yet monitored by the Regional Office
b)	Date of site visits for this monitoring report	:	Not available as not yet monitored by the Regional Office.

Sr. No.	EC Compliance Conditions	Compliance
	<b>Specific Conditions</b>	
	PP to prepare protocol/SOP for the storage, handling and use of the Nitromethane.	Protocol/ SOP for the storage, handling and use of the Nitromethane is attached as an <b>Annexure V.</b>
	PP to submit On-Site Emergency Plan to the District Authorities.	On-Site Emergency Plan has been submitted to the District Authorities at Collector office of Raigad. On-Site Emergency Plan along with acknowledgment copy of the same and is attached as an <b>Annexure VI.</b>
	PP to plant domestic/indigenous species of trees in the green belt.	PP has committed to plant domestic / indigenous species of trees in the green belt. Photographs of the Green belt which are already planted inside the premises and Green belt photographs & List of domestic/indigenous species of trees are attached as an <b>Annexure VII.</b>
	PP to include monitoring of water and carbon foot print in the EMP.	Water and Carbon footprint monitoring in the EMP is Incorporated and EMP table is given in data sheet.
	PP to prepare and implement CER plan in consultation with the District Collector with timelines as per OM issued by MoEF&CC dated 01.05.2108.	The CER plan has submitted to District Collector for the approval and acknowledgment of the same is enclosed as an <b>Annexure VIII.</b> The process of approval of the same is under progress and will be submitted shortly.
	PP to use new and renewable energy source for illumination of street lights and office building.	Solar panel system is installed at site which will generate 125 KW power which is used for illumination of Office building and street light. Photographs of the same is enclosed as an <b>Annexure XVIII.</b>
	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August, 2018.	A separate compliance matrix of the conditions stipulated in the Office Memorandum is sued by MoEF&CC dated 9 <sup>th</sup> August 2018 has been prepared and presented in the subsequent pages.
	<b>General Conditions</b>	
1.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP.	Yes, This is a Zero Liquid Discharge (ZLD) Unit.
2.	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	No additional land will be acquired for any activity of the project without obtaining proper permission.
3.	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	Various measures have been undertaken for the health and safety of the people working in the unit and also for protecting the environment such as establishment of the occupational health center, provision of the first aid box at various locations, Checkup room provision of safety shower, eye washer and Firefighting system & Sprinkler provided at various locations.

		Also various PPEs such as safety goggles, splash protection goggles, face shield, airline respirator among others are provided to the personnel working in the premises of the factory.
4.	Proper Housekeeping programmers shall be implemented.	Housekeeping is maintained within premises to give aesthetic look and to boost morale of the people
5.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	In the event of incidental failure of any pollution control system adopted by the unit, the unit will be immediately put out of operation and will not be restarted until the desired efficiency has been achieve.
6.	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	Adequate common stack height of 8 m above the encloser is provided for 1 No. of D.G set of 810 KVA.
7.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	It is expected for generation of rain water from roof top area as 13694 m <sup>3</sup> /season. Aastrid will provide rain water collection tank of capacity 350 KL and it will have implemented after 1 Year of the commissioning of the project. The harvested water will be used for toilet-urinal flushing and for cooling tower make-up. The harvested rain water will not be used for recharging as there are restrictions by MIDC for borling in industrial areas.
8.	Arrangement shall be made that effluent and storm water does not get mixed.	To avoid mixing of wastewater with storm water it will be handled through closed pipelines from the source of generation to ETP. Separate storm water drains are provided.
9.	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.	Periodic monitoring of ground water is not applicable, as there is no permission from MIDC for extracting of ground water. The PP will be operating factory using MIDC fresh water.
10.	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	The ambient noise monitoring was carried out and the noise levels ranged from 58.6 day dB Leq on project side & 72.5 at Near MEE Plant during day and noise levels ranged from 51.9 dB Leq near project site to 64.5 dB Leq near MEE Plant during night time and were found to be within the stipulated limit for the Industrial area (75 dB as promulgated by CPCB. Noise levels will be maintained by carrying out (a) periodical preventive maintenance of equipment and machineries, (b) providing vibration absorption pads, (c) providing proper lubrications, and by (d) providing required ear muffs/ear plugs for protection of hearing.



11.	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Noise levels will be kept under control by carrying out (a) periodical preventive maintenance of equipment and machineries, (b) providing vibration absorption pads, (c) providing proper lubrications. A survey of Noise level in the study area will be carried out once in a year to ensure that the noise levels are within stipulated standards prescribed under Environment (Protection) Act, 1986 Rules, 1989. Monitoring reports attached as an <b>Annexure IX.</b>
12.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Total green belt area will be 7699.79 sq. m, which is 33% of total plot area; Plants are selected as per CPCB guideline and consultation with the local DFO/ Agriculture Department.
13.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, In case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	The Project proponent has been provided various safety measures on site to avoid any accident. Separate SOP is available for Accident/ Incident control. Onsite emergency plan is available. All safety installation at place is available Equipment testing is given to all concerns as per factory act. Mock drills are conducted frequently. Safety Training is being imparted from time to time to all concerns. Adequate firefighting system is being provided. Safety audits will be plan as per requirement. Proper leak detection system is being provided for early detection and warning. Such as VOC (volatile organic carbon) detection meter is being available at site to detect various gases at work place. Oxygen meter is being available at site to monitor oxygen level in confined space & to detect leakages. Photographs of the same is Attached as an <b>Annexure X.</b> Mock drill report along with relevant photographs are available and enclosed as <b>Annexure XII.</b>
14.	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	We will carry out medical examination of all staff, workers & contract people. Frequency will be Yearly and Form 7 will be maintained under Factories act indicates summary of fitness of the people once the production is commenced. We will carry out the medical examination at frequency of once in a year
15.	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Adequate provisions have been undertaken to limit the risk zone within the plant boundary for countering fire hazards during the manufacturing process in material handling such as fire hydrant, fire hose, foam mobile unit, etc. A total of 81 nos. of

		fire extinguishers have been kept in the factory to counter the fire hazard among other measures.
16.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections /treatment / storage /disposal of hazardous wastes.	We have valid authorization from MPCB for collections/ treatment/ storage/ disposal of hazardous wastes. We will strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes In accordance with the Hazardous and Other Waste (Management and Transboundary movement) Rules, 2016. The valid membership letter of Mumbai Waste Management Limited is attached as an <b>Annexure XI.</b>
17.	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.	Regular mock drills for the on-site emergency management plan will be carried out. Implementation of changes / improvements in the on-site management plan will be updated time to time. Recently, we have conducted mock drill at site. Report along with relevant photographs are available and enclosed as an <b>Annexure XII.</b>
18.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environmental Cell at project level will be arranged qualified personnel under the control of EHS head, who will directly be reporting to the head operations of the organization for implementation of the stipulated environmental safeguards. A separate environmental management cell will be established and the organogram along with responsibilities of each personnel is enclosed as an <b>Annexure XIII.</b>
19.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with Item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Separate funds are allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost are included as part of the project cost. The funds earmarked for the environment protection measures will not be diverted for other purposes and year-wise expenditure shall be reported to the MPCB & this department.
20.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>	The advertisement related to the accord of the environmental clearance was published in two newspapers. Advertisement in English newspaper "Daily Indian Express", and Marathi newspaper "Dainik Loksatta" had been given & the same was published on 11 <sup>th</sup> May 2019, i.e., within seven days from date of issue of EC. Copy already submitted in 1 <sup>st</sup> half compliance report.

21.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year.	Project proponent is submitting 7 <sup>th</sup> half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in soft copies through mail to the following regulatory agencies: RO MoEF&CC, RO CPCB, RO MPCB & SRO MPCB. Hard copies of same compliance are submitting to RO, SRO & Environment department, Government of Maharashtra.
22.	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.	We have not received any suggestions and representations while processing the proposals from concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local and the local NGO. Hence this clearance copy was not shared with them. Copy of Environmental clearance letter is already uploaded on company website and attached as an <b>Annexure XIV</b> .
23.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (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.	We have already upload the EC letter on company website. Status of compliance of the stipulated EC conditions, including results of monitored data on Aastrid website and will be update regularly. The pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) will be monitored and displayed at an entrance (the main gate) of the company.
24.	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.	We will 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 (a) the Regional Office of MoEF, (b) the Zonal Office of (i) CPCB and (ii) the SPCB.
25.	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	<ul style="list-style-type: none"> <li>• The environmental statement for the financial year ending 31<sup>st</sup> March in Form-V will be submitted by the project proponent to the Maharashtra State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently once the project gets commissioned.</li> <li>• Environment Statement in Form V will be put on the Company website and sent to Regional Office of MoEF&amp;CC by e-mail. once the project gets commissioned</li> <li>• Status of compliance of EC conditions will be put on the Company website and sent to Regional Office of MoEF&amp;CC by e-mail.</li> </ul>

26.	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 for information
27.	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 and initiate appropriate legal action under Environmental Protection Act, 1986.	Noted and agreed
28.	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 and agreed
29.	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29 <sup>th</sup> April, 2015.	Noted and agreed
30.	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 and agreed
31.	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 and agreed
32.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1 <sup>st</sup> Floor, D-, Wing, Opposite Council Hall, Pune, if preferred,	Noted and agreed

7<sup>th</sup> half EC Compliance report of Aastrid Life Sciences Pvt. Ltd.  
At Plot No- FS-1 & FS-2, Additional MIDC, Mahad, Raigad

within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
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**Point wise compliance of the standard EC compliance conditions stipulated for the synthetic organic conditions vide MoEF & CC's Office Memorandum dated 9<sup>th</sup> August 2018**

<b>I</b>	<b>Statutory compliance</b>	<b>Compliance</b>
<b>i)</b>	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable as no forest land involved in the project site.
<b>ii)</b>	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable as no schedule-1 species were reported in the study area.
<b>iii)</b>	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-1 species in the study area)	Not applicable as no schedule -1 species were reported in the study area.
<b>iv)</b>	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee	Aastrid has obtained the Consent to Operate vide MPCB document no. Format 1.0/BO/CC/UAN No. 0000123206/CO-2111000838 dated 22/11/2021 and valid till 31/10/2026. The copy of CTO is enclosed as an <b>Annexure II.</b>
<b>v)</b>	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Aastrid has obtained membership of MWML and the same is enclosed as an <b>Annexure XI.</b>
<b>vi)</b>	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Aastrid will strictly comply with the rules and guidelines under Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended from time to time. All the transportation of Hazardous Chemicals is as per the Motor Vehicle Act (MVA), 1989
<b>II</b>	<b>Air quality monitoring and preservation</b>	
<b>i)</b>	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Aastrid will install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers will be install in next six month.

ii)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Fugitive emissions testing carried out in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
iii)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	The ambient air quality monitoring for common/criterion parameters was carried out at one location in the plant area and three locations outside the plant area at an angle of 120° each. The ranges of some of the parameters are as under: PM <sub>10</sub> : 51.28 µg/m <sup>3</sup> (Barasgaon Village) to 56.36 µg/m <sup>3</sup> (Near main gate), PM <sub>2.5</sub> : 22.97 µg/m <sup>3</sup> (Gavadi Village) to 25.03 µg/m <sup>3</sup> (Near main gate), SO <sub>2</sub> : 11.38 µg/m <sup>3</sup> (Savalewadi Village) to 20.15 µg/m <sup>3</sup> (Near main gate), NO <sub>x</sub> : 37.26 µg/m <sup>3</sup> (Gavadi Village) to 48.48 µg/m <sup>3</sup> (Near main gate). All the parameters were found to be within the respective stipulated NAAQS standards. The detailed results are enclosed as an <b>Annexure IX</b> .
iv)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Coal will not be used as a fuel for boilers. Aastrid will use Briquette/LDO as a fuel in the boilers instead of coal. Bag filter, Air pre heater, mechanical dust collector is installed to controlling the particulate emission form the Boiler. Adequate stack of 30 m height is provided as per CPCB/SPCB guidelines. Process scrubbers are installed to scrub gases arising from manufacturing processes.
v)	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	The raw materials have been stored in the storage tanks and drums.
vi)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed	The National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21 <sup>st</sup> July, 2010 and amended from time to time will be followed.
vii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 will be complied with.
<b>III</b>	<b>Water quality monitoring and preservation</b>	

i)	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).	The project proponent will provide online continuous monitoring of effluent, the unit will install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).
ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).  The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	High COD & TDS stream from process is being treated in Multiple Effect Evaporator (MEE). MEE condensate along with utility blow downs is being treated in full-fledged ETP. After tertiary treatment effluent is being fed to the RO. RO permeate is reused for utility purpose and RO reject is being fed to the MEE for further treatment. Thus the unit is a ZLD. Domestic sewage is being treated in STP.
iii)	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA In this regard.	The total fresh water requirement will be 617 CMD and the water permission letter from MIDC is enclosed as an <b>Annexure XV</b> .
iv)	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	There is no mixing of the process effluent with storm water. Separate drains and conveyance systems will be provided for the process effluent / waste water and the storm water.
v)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant	It is expected for generation of rain water from roof top area as 13694 m <sup>3</sup> /season. Aastrid will provide rain water collection tank of capacity 350 KL and it will have implemented after 1 Year of the commissioning of the project. It will be utilized for different industrial operations within the plant. The harvested rain water will not be used for recharging as there are restrictions by MIDC for boring in industrial areas. Internal Storm water drains has been connected to MIDC drains.
vi)	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	Adequate common stack height of 8 m above the encloser is provided for 1 No of D.G set of 810 KVA.



<b>IV Noise monitoring and prevention</b>		
<b>i)</b>	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Acoustic enclosures for the D.G set is being provided for controlling the noise pollution.
<b>ii)</b>	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	Noise levels in and around the plant area are kept well within the standards. Control measures including acoustic hoods, silencers, enclosures etc. are provided for all sources of noise generation.
<b>iii)</b>	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	The ambient noise levels were monitored and the same ranged between 58.6 dB(A) at project site during day time and 72.5 dB(A) at MEE plant during night time which were found to be within the stipulated limit for the industrial area (75 dB(A))-daytime and 70 dB(A) during night time as promulgated by CPCB. The noise level report is enclosed as <b>Annexure-IX.</b>
<b>V. Energy Conservation measures</b>		
<b>i)</b>	The energy sources for lighting purposes shall preferably be LED based.	The energy sources used for lighting purposes is preferably be LED based.
<b>VI Waste management</b>		
<b>i)</b>	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	The hazardous chemicals are being stored in tanks, drums, carboys etc. Flame arresters is already provided on tank farm and the solvent transfer is done through pumps.
<b>ii)</b>	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Process organic residue and spent carbon, ETP sludge, process inorganic & evaporation salt will be disposed off to the TSDF. The valid membership letter from CHWTSDF is attached as an <b>Annexure XI.</b>
<b>iii)</b>	The company shall undertake waste minimization	measures as below:
	Metering and control of quantities of active ingredients to minimize waste.	Generated hazardous waste stored in shed and monitored record of the same and the Metering and control of quantities of active ingredients to minimize waste and Reuse of by-products from the process as raw materials or as raw material substitutes in other processes monitored.
	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	
	Use of automated filling to minimize spillage.	Seal proof pumps is provided to transfer liquid raw materials.
	Use of Close Feed system into batch reactors.	Raw material charging is done through Close Feed system into batch reactors for waste minimization.

	Venting equipment through vapor recovery system	Primary and secondary condensers is provided to each recovery unit.
	Use of high pressure hoses for equipment clearing to reduce wastewater generation	All reactor floors is already provided high pressure water gun for leaning of reactors and equipment's.
<b>VII</b>	<b>Green Belt</b>	
<b>i)</b>	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	Total green belt will be developed on 7699.79 sq. m, which is 33% of total plot area. Plants are selected as per CPCB guidelines in consultation with State Forest Department.
<b>VIII</b>	<b>Safety, Public hearing and Human health issues</b>	
<b>i)</b>	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is being implemented.
	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms	In material handling the unit is being arranged to protect it from potential fire hazards during the production process. Fire fighting system is already provided as per the norms.
<b>ii)</b>	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Various PPEs such as safety goggles, splash protection goggles, face shield, airline respirator among others is Provided as per factory act to the personnel working in the premises of the factory.
<b>iii)</b>	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training has been imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees will be undertaken on regular basis.
<b>iv)</b>	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Adequate provisions have been made for the construction labor within the site such as mobile toilets, safe drinking water etc. among other necessary arrangements.
<b>v)</b>	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers will be done on a regular basis and records will be maintained as per the Factories Act once the project is commissioned. We will carry out the medical examination at frequency of once in a year.

vi)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	There is adequate space provided inside the plant premises earmarked 2787.36 Sq. m for parking of vehicles for raw materials and finished products, and no parking is allowed outside on public places.
<b>IX) Corporate Environment Responsibility</b>		
i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.111 dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Aastrid will comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.111 dated 1st May 2018 regarding Corporate Environmental Responsibility. The CER plan has submitted to District Collector for the approval and acknowledgment of the same is attached as an <b>Annexure VIII</b> . The process of approval of the same is under progress.
ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting Infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report	Aastrid has well laid down EHS policy and the same is enclosed as an <b>Annexure XIX</b> .
iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	The organogram of the Environmental Management Cell has been enclosed as an <b>Annexure XVII</b> .
iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	The organogram of the Environmental Management Cell has been enclosed as an <b>Annexure XVII</b> . The year wise progress of implementation of action plan will be reported to the Ministry/Regional Office. This is the 6 <sup>th</sup> half six monthly compliance report being submitted to the Ministry/Regional Office.

v)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self-Environmental audit will be conducted annually and every three years environmental audit will be got conducted by third party.
<b>X)</b>	<b>Miscellaneous</b>	
i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	The advertisement related to the accord of the environmental clearance had been published in two newspapers. Advertisement in English newspaper "Daily Indian Express", and Marathi newspaper "Dainik Loksatta" given & the same was published on 11 <sup>th</sup> May 2019, i.e., within seven days from date of issue of EC. Copy of Environmental clearance letter is already uploaded on company website and screen shot of the same attached as an <b>Annexure XIV</b> .
ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt	We have not received any suggestions and representations while processing the proposals from concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local and the local NGO. Hence this clearance copy was not shared with them
iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	This is the 7 <sup>th</sup> half six monthly compliances being submitted. We will shortly upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on our website and update the same on half-yearly basis.
iv)	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	This is the 7 <sup>th</sup> half yearly EC compliance will submit. We will shortly upload the status of compliance of the stipulated EC conditions, including results of monitored data on our website and will update the same periodically. The 7 <sup>th</sup> six monthly compliances will be submitted to Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The detailed results are enclosed as an <b>Annexure IX</b> . The production has just started and monitoring was done at project site before the starting of the operation.

v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted for compliance. We will submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
vi)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The production has just commenced and the environmental statement for the financial year ending 31 <sup>st</sup> March in Form-V will be submitted by the project proponent to the Maharashtra State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently.
vii)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted and agreed.
viii)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Noted and agreed.
ix)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and agreed. We will abide by all the commitments and recommendations made in the EIA/EMP report, Public hearing is not applicable for this project as it is located in the Notified Industrial area and is subsequently categorized as "B1" which was appraised at state level by SEAC-1.
x)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and agreed.
xi)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted and agreed.
xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and agreed
xiii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted for information and agreed.
xiv)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The	Noted and agreed

	project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	
<b>xv)</b>	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted and agreed.
<b>xvi)</b>	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted for information.

### **Present Status of Project:**

- 1)** We have published the advertisement of the obtained Environmental Clearance in the local newspaper "Dainic Loksatta" in Marathi and "Daily Indian Express" in English language on 11<sup>th</sup> May 2019 within seven days of getting EC. Copy of Environmental Clearance is enclosed as an **Annexure I**.
  
- 2)** We have received the Consent to Operate from MPCB with No. Format1.0/CC/UAN No. 0000123206/CO-2111000838 dated 22.11.2021 valid upto 31.10.2026. Copy of same CTO is enclosed as an **Annexure II**.
  
- 3)** This is the new project and Aastrid has completed the phase -I and now production has just commenced. Photographs of the admin, QA & QC building, utility building, occupational health center, warehouse, manufacturing unit, ETP, MEE, RO, STP plant, & solar panel are enclosed as an **Annexure III**. Aastrid yet not planning for the phase -II.

**PART I**  
**DATA SHEET**

1.	<b>Project type:</b> River Valley / Mining / Industry / Thermal / Nuclear / Others (specify)	:	Industry
2.	<b>Name of the Project</b>	:	New project for manufacturing of chemical intermediates at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad by Aastrid Life Sciences Pvt. Ltd.
3.	<b>Clearance letter (s) / OM No. and date</b>	:	SEIAA-EC-0000001492 dated 7 <sup>th</sup> May 2019.
4.	<b>Location</b>	:	Raigad
	a) District (s)	:	
	b) State (s)	:	Maharashtra
	c) Location latitude / longitude	:	At Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad  Latitude: 18° 07' 15.70" N Longitude: 73° 31' 51.53" E
5.	<b>Address for Correspondence</b>	:	Name: Mr. Ravi Jagtap A-514, TTC Industrial Area, MIDC Mahape, Navi Mumbai – 400 701.  Tel. No.: +91 2241122626  Fax Number: +91 22 27782437
	a) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)		
	b) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)		
6.	<b>Salient features</b>	:	<ul style="list-style-type: none"> <li>• This is a new project and proposed activity will be achieved phase wise i.e. Phase 1 &amp; Phase 2. For Phase 1, Consent to operate has been obtained and production has just commenced.</li> <li>• Total Production capacity will be 1392 TPA.</li> <li>• The fresh water source from MIDC.</li> <li>• The unit is a Zero Liquid Discharge (ZLD) Unit.</li> <li>• Domestic wastewater is being treated in STP.</li> </ul>
	a) of the Project		
	b) of the Environmental Management Plans		Total EMP cost during operational phase shall be Capital cost Rs.573 lacs Recurring cost Rs.1125.625 lacs. Environment Management Plan Includes the following: <ul style="list-style-type: none"> <li>➤ Air pollution control system includes: Stack of adequate height.</li> <li>➤ Process emissions control system includes the 2 nos. of process scrubbers.</li> </ul>



			<ul style="list-style-type: none"> <li>➤ Water pollution control system includes: Automation &amp; betterment of MEE, ETP.</li> <li>➤ Noise pollution Control includes Acoustic enclosure and regular maintenance.</li> <li>➤ Occupational Health includes Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, Control of fugitive emissions, Work Place monitoring.</li> <li>➤ Green belt includes maintenance of the same.</li> <li>➤ Hazardous waste disposal includes cost for disposal of the same.</li> </ul>
7.	<b>Break-up of the Project Area</b> a) Submergence area: forest & non-forest	:	Not applicable and forest area is not involved in the project. It is an industrial project located within notified MIDC. i.e. Additional MIDC Mahad.
	<b>b) Others</b>		Total Plot Area: 23228 Sq. m Total Built up Area: 15524 Sq. m Total Ground Coverage Area: 5970.68 Sq. m. Area statement of the project area is attached as an <b>Annexure IV</b> .
8.	<b>Break-up of the project affected population</b> with the enumeration of those losing Houses / Dwelling units only, Agricultural Land & Landless Laborers / Artisans: a) SC, ST / Adivasi	:	Not applicable as no project affected population is there due to the fact that the project is located in the notified industrial area i.e., Additional MIDC Mahad.
	b) Others (please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	:	
9 a)	<b>Financial Details:</b> Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Originally planned project cost: Rs. 80 Crs. Year of Price reference: 2018, Actual project cost: Rs. 73.1819 Crs. Year of Price reference: 2021, Aastrid has completed the Phase-I planning.
b)	Allocation made for environmental management plans with item wise and year wise breakup	:	Total capital cost for environmental management plans: Rs. 573 lakhs

			Total recurring cost for environmental management plans: Rs. 1125.625 lakhs / Year.																																																
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Component</th> <th>Capital Cost Rs. in Lakh</th> <th>O&amp;M Cost Rs. in Lakh/Yr.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Air Pollution Control</td> <td>45</td> <td>10</td> </tr> <tr> <td>2.</td> <td>Water Pollution Control</td> <td>366</td> <td>543</td> </tr> <tr> <td>3.</td> <td>Noise Pollution Control</td> <td>45</td> <td>7</td> </tr> <tr> <td></td> <td>Occupational Health</td> <td>25</td> <td>3</td> </tr> <tr> <td>4.</td> <td>Environmental Monitoring</td> <td>0</td> <td>2.09</td> </tr> <tr> <td>5.</td> <td>Hazardous Waste</td> <td>1</td> <td>550</td> </tr> <tr> <td>6.</td> <td>Mitigation Measures for LCA</td> <td>90.8</td> <td>1.0</td> </tr> <tr> <td>7.</td> <td>Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)</td> <td>18.0</td> <td>4.0</td> </tr> <tr> <td>8.</td> <td>Water Footprint Monitoring (Measures taken to reduce Water footprint)</td> <td>1.2</td> <td>0.015</td> </tr> <tr> <td>9.</td> <td>Green Belt</td> <td>21</td> <td>5.52</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>573</b></td> <td><b>1125.625</b></td> </tr> </tbody> </table>			Sr. No.	Component	Capital Cost Rs. in Lakh	O&M Cost Rs. in Lakh/Yr.	1.	Air Pollution Control	45	10	2.	Water Pollution Control	366	543	3.	Noise Pollution Control	45	7		Occupational Health	25	3	4.	Environmental Monitoring	0	2.09	5.	Hazardous Waste	1	550	6.	Mitigation Measures for LCA	90.8	1.0	7.	Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)	18.0	4.0	8.	Water Footprint Monitoring (Measures taken to reduce Water footprint)	1.2	0.015	9.	Green Belt	21	5.52		<b>Total</b>	<b>573</b>	<b>1125.625</b>
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8.	Water Footprint Monitoring (Measures taken to reduce Water footprint)	1.2	0.015																																																
9.	Green Belt	21	5.52																																																
	<b>Total</b>	<b>573</b>	<b>1125.625</b>																																																
c)	Benefit cost ratio/Internal rate of Return and the year of assessment	:	Not applicable as it is a new project and production has just started. Internal Rate of return will be calculated only after realization of production due to proposed activity.																																																
d)	Whether (c) includes the cost of environmental management as shown in the above	:	Yes																																																
e)	Actual expenditure incurred on the project so far	:	Rs. 73.1819 Crs.																																																
f)	Actual expenditure incurred on the environmental management plans so far	:	Rs. 272 Lacs.																																																
<b>10</b>	<b>Forest Land Requirement</b>																																																		
a)	The status of approval for diversion of forest land for non-forestry use	:	Not Applicable																																																
b)	The status of clearing felling	:	Not Applicable																																																
c)	The status of compensatory a forestation, if any Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	Not Applicable																																																
<b>11</b>	<b>The status of clear felling</b> in non-forest areas (such as submergence area or reservoir, approach roads.),	:	Not applicable as the project is located in a notified Industrial area i.e. Additional MIDC Mahad.																																																

	if any with quantitative information required.		
<b>12</b>	<b>Status of construction</b> (Actual&/or planned)		Construction activities for proposed project has been completed and production activities just started. The photographs of the ongoing activity are attached as an <b>Annexure III</b> .
a)	Date of commencement (Actual&/or planned)	:	<b>Phase -I:</b> Planned: 16 Oct. 2019, Actual: 01 Dec. 2019, Yet not planned for the phase II.
b)	Date of completion (Actual&/or planned)	:	<b>Phase -I:</b> Planned: 09 Mar. 2021, Actual: 09 Dec. 2021, Yet not planned for the phase II.
<b>13</b>	<b>Reasons for the delay</b> if the project is yet to start	:	Due to pandemic COVID -19 Situation not able to start project as per planned.
<b>14</b>	<b>Dates of Site Visits</b>		
a)	The dates on which the project was monitored by the Regional Office on previous occasions, if any	:	Not yet monitored by the Regional Office
b)	Date of site visits for this monitoring report	:	Not available as not yet monitored by the Regional Office.

Sr. No.	EC Compliance Conditions	Compliance
	<b>Specific Conditions</b>	
	PP to prepare protocol/SOP for the storage, handing and use of the Nitromethane.	Protocol/ SOP for the storage, handling and use of the Nitromethane is attached as an <b>Annexure V.</b>
	PP to submit On-Site Emergency Plan to the District Authorities.	On-Site Emergency Plan has been submitted to the District Authorities at Collector office of Raigad. On-Site Emergency Plan along with acknowledgment copy of the same and is attached as an <b>Annexure VI.</b>
	PP to plant domestic/indigenous species of trees in the green belt.	PP has committed to plant domestic / indigenous species of trees in the green belt. Photographs of the Green belt which are already planted inside the premises and Green belt photographs & List of domestic/indigenous species of trees are attached as an <b>Annexure VII.</b>
	PP to include monitoring of water and carbon foot print in the EMP.	Water and Carbon footprint monitoring in the EMP is incorporated and EMP table is given in data sheet.
	PP to prepare and implement CER plan in consultation with the District Collector with timelines as per OM issued by MoEF&CC dated 01.05.2108.	The CER plan has submitted to District Collector for the approval and acknowledgment of the same is enclosed as an <b>Annexure VIII.</b> The process of approval of the same is under progress and will be submitted shortly.
	PP to use new and renewable energy source for illumination of street lights and office building.	Solar panel system is installed at site which will generate 125 KW power which is used for illumination of Office building and street light. Photographs of the same is enclosed as an <b>Annexure XIII.</b>
	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August, 2018.	A separate compliance matrix of the conditions stipulated in the Office Memorandum is sued by MoEF&CC dated 9 <sup>th</sup> August 2018 has been prepared and presented in the subsequent pages.
	<b>General Conditions</b>	
1.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP.	Yes, This is a Zero Liquid Discharge (ZLD) Unit.
2.	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	No additional land will be acquired for any activity of the project without obtaining proper permission.
3.	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	Various measures have been undertaken for the health and safety of the people working in the unit and also for protecting the environment such as establishment of the occupational health center, provision of the first aid box at various locations, Checkup room provision of safety shower, eye washer and Firefighting system & Sprinkler provided at various locations.

		Also various PPEs such as safety goggles, splash protection goggles, face shield, airline respirator among others are provided to the personnel working in the premises of the factory.
4.	Proper Housekeeping programmers shall be implemented.	Housekeeping is maintained within premises to give aesthetic look and to boost morale of the people
5.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	In the event of incidental failure of any pollution control system adopted by the unit, the unit will be immediately put out of operation and will not be restarted until the desired efficiency has been achieve.
6.	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	Adequate common stack height of 8 m above the encloser is provided for 1 No. of D.G set of 810 KVA.
7.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	It is expected for generation of rain water from roof top area as 13694 m <sup>3</sup> /season. Aastrid will provide rain water collection tank of capacity 350 KL and it will have implemented after 1 Year of the commissioning of the project. The harvested water will be used for toilet-urinal flushing and for cooling tower make-up. The harvested rain water will not be used for recharging as there are restrictions by MIDC for boring in industrial areas.
8.	Arrangement shall be made that effluent and storm water does not get mixed.	To avoid mixing of wastewater with storm water it will be handled through closed pipelines from the source of generation to ETP. Separate storm water drains are provided.
9.	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.	Periodic monitoring of ground water is not applicable, as there is no permission from MIDC for extracting of ground water. The PP will be operating factory using MIDC fresh water.
10.	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	The ambient noise monitoring was carried out and the noise levels ranged from 58.6 day dB Leq on project side & 72.5 at Near MEE Plant during day and noise levels ranged from 51.9 dB Leq near project site to 64.5 dB Leq near MEE Plant during night time and were found to be within the stipulated limit for the industrial area (75 dB as promulgated by CPCB. Noise levels will be maintained by carrying out (a) periodical preventive maintenance of equipment and machineries, (b) providing vibration absorption pads, (c) providing proper lubrications, and by (d) providing required ear muffs/ear plugs for protection of hearing.

11.	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Noise levels will be kept under control by carrying out (a) periodical preventive maintenance of equipment and machineries, (b) providing vibration absorption pads, (c) providing proper lubrications. A survey of Noise level in the study area will be carried out once in a year to ensure that the noise levels are within stipulated standards prescribed under Environment (Protection) Act, 1986 Rules, 1989. Monitoring reports attached as an <b>Annexure IX.</b>
12.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Total green belt area will be 7699.79 sq. m, which is 33% of total plot area; Plants are selected as per CPCB guideline and consultation with the local DFO/ Agriculture Department.
13.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	The Project proponent has been provided various safety measures on site to avoid any accident. Separate SOP is available for Accident/ Incident control. Onsite emergency plan is available. All safety installation at place is available Equipment testing is given to all concerns as per factory act. Mock drills are conducted frequently. Safety Training is being imparted from time to time to all concerns. Adequate firefighting system is being provided. Safety audits will be plan as per requirement. Proper leak detection system is being provided for early detection and warning. Such as VOC (volatile organic carbon) detection meter is being available at site to detect various gases at work place. Oxygen meter is being available at site to monitor oxygen level in confined space & to detect leakages. Photographs of the same is Attached as an <b>Annexure X.</b> Mock drill report along with relevant photographs are available and enclosed as <b>Annexure XII.</b>
14.	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	We will carry out medical examination of all staff, workers & contract people. Frequency will be Yearly and Form 7 will be maintained under Factories act indicates summary of fitness of the people once the production is commenced. We will carry out the medical examination at frequency of once in a year
15.	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Adequate provisions have been undertaken to limit the risk zone within the plant boundary for countering fire hazards during the manufacturing process in material handling such as fire hydrant, fire hose, foam mobile unit, etc. A total of 81 nos. of

		fire extinguishers have been kept in the factory to counter the fire hazard among other measures.
16.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections /treatment / storage /disposal of hazardous wastes.	We have valid authorization from MPCB for collections/ treatment/ storage/ disposal of hazardous wastes. We will strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous and Other Waste (Management and Transboundary movement) Rules, 2016. The valid membership letter of Mumbai Waste Management Limited is attached as an <b>Annexure XI.</b>
17.	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.	Regular mock drills for the on-site emergency management plan will be carried out. Implementation of changes / improvements in the on-site management plan will be updated time to time. Recently, we have conducted mock drill at site. Report along with relevant photographs are available and enclosed as an <b>Annexure XII.</b>
18.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environmental Cell at project level will be arranged qualified personnel under the control of EHS head, who will directly be reporting to the head operations of the organization for implementation of the stipulated environmental safeguards. A separate environmental management cell will be established and the organogram along with responsibilities of each personnel is enclosed as an <b>Annexure XIII.</b>
19.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Separate funds are allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost are included as part of the project cost. The funds earmarked for the environment protection measures will not be diverted for other purposes and year-wise expenditure shall be reported to the MPCB & this department.
20.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>	The advertisement related to the accord of the environmental clearance was published in two newspapers. Advertisement in English newspaper "Daily Indian Express", and Marathi newspaper "Dainik Loksatta" had been given & the same was published on 11 <sup>th</sup> May 2019, i.e., within seven days from date of issue of EC. Copy already submitted in 1 <sup>st</sup> half compliance report.

21.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1st December of each calendar year.	Project proponent is submitting 7 <sup>th</sup> half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in soft copies through mail to the following regulatory agencies: RO MoEF&CC, RO CPCB, RO MPCB & SRO MPCB. Hard copies of same compliance are submitting to RO, SRO & Environment department, Government of Maharashtra.
22.	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.	We have not received any suggestions and representations while processing the proposals from concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local and the local NGO. Hence this clearance copy was not shared with them. Copy of Environmental clearance letter is already uploaded on company website and attached as an <b>Annexure XIV</b> .
23.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectorai 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.	We have already upload the EC letter on company website. Status of compliance of the stipulated EC conditions, including results of monitored data on Aastrid website and will be update regularly. The pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) will be monitored and displayed at an entrance (the main gate) of the company.
24.	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.	We will 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 (a) the Regional Office of MoEF, (b) the Zonal Office of (i) CPCB and (ii) the SPCB.
25.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as 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.	<ul style="list-style-type: none"> <li>• The environmental statement for the financial year ending 31<sup>st</sup> March in Form-V will be submitted by the project proponent to the Maharashtra State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently once the project gets commissioned.</li> <li>• Environment Statement in Form V will be put on the Company website and sent to Regional Office of MoEF&amp;CC by e-mail.</li> <li>• Status of compliance of EC conditions will be put on the Company website and sent to Regional Office of MoEF&amp;CC by e-mail.</li> </ul>



26.	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 for information
27.	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 and initiate appropriate legal action under Environmental Protection Act, 1986.	Noted and agreed
28.	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 and agreed
29.	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29 <sup>th</sup> April, 2015.	Noted and agreed
30.	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 and agreed
31.	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 and agreed
32.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1 <sup>st</sup> Floor, D-, Wing, Opposite Council Hall, Pune, if preferred,	Noted and agreed

	within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
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**Point wise compliance of the standard EC compliance conditions stipulated for the synthetic organic conditions vide MoEF & CC's Office Memorandum dated 9<sup>th</sup> August 2018**

<b>I</b>	<b>Statutory compliance</b>	<b>Compliance</b>
i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable as no forest land involved in the project site.
ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable as no schedule-1 species were reported in the study area.
iii)	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-1 species in the study area)	Not applicable as no schedule -1 species were reported in the study area.
iv)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee	Aastrid has obtained the Consent to Operate vide MPCB document no. Format 1.0/BO/CC/UAN No. 0000123206/CO-2111000838 dated 22/11/2021 and valid till 31/10/2026. The copy of CTO is enclosed as an <b>Annexure II.</b>
v)	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Aastrid has obtained membership of MWML and the same is enclosed as an <b>Annexure XI.</b>
vi)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Aastrid will strictly comply with the rules and guidelines under Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended from time to time. All the transportation of Hazardous Chemicals is as per the Motor Vehicle Act (MVA), 1989
<b>II</b>	<b>Air quality monitoring and preservation</b>	
i)	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Aastrid will install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers will be install in next six month.

ii)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Fugitive emissions testing carried out in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
iii)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	The ambient air quality monitoring for common/criterion parameters was carried out at one location in the plant area and three locations outside the plant area at an angle of 120° each. The ranges of some of the parameters are as under: PM <sub>10</sub> : 51.28 µg/m <sup>3</sup> (Barasgaon Village) to 56.36 µg/m <sup>3</sup> (Near main gate), PM <sub>2.5</sub> : 22.97 µg/m <sup>3</sup> (Gavadi Village) to 25.03 µg/m <sup>3</sup> (Near main gate), SO <sub>2</sub> : 11.38 µg/m <sup>3</sup> (Savalewadi Village) to 20.15 µg/m <sup>3</sup> (Near main gate), NO <sub>x</sub> : 37.26 µg/m <sup>3</sup> (Gavadi Village) to 48.48 µg/m <sup>3</sup> (Near main gate). All the parameters were found to be within the respective stipulated NAAQS standards. The detailed results are enclosed as an <b>Annexure IX</b> .
iv)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Coal will not be used as a fuel for boilers. Aastrid will use Briquette/LDO as a fuel in the boilers instead of coal. Bag filter, Air pre heater, mechanical dust collector is installed to controlling the particulate emission form the Boiler. Adequate stack of 30 m height is provided as per CPCB/SPCB guidelines. Process scrubbers are installed to scrub gases arising from manufacturing processes.
v)	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	The raw materials have been stored in the storage tanks and drums.
vi)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21 <sup>st</sup> July, 2010 and amended from time to time shall be followed	The National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21 <sup>st</sup> July, 2010 and amended from time to time will be followed.
vii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be complied with.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 will be complied with.
<b>III</b>	<b>Water quality monitoring and preservation</b>	

i)	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).	The project proponent will provide online continuous monitoring of effluent, the unit will install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).
ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).  The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	High COD & TDS stream from process is being treated in Multiple Effect Evaporator (MEE). MEE condensate along with utility blow downs is being treated in full-fledged ETP. After tertiary treatment effluent is being fed to the RO. RO permeate is reused for utility purpose and RO reject is being fed to the MEE for further treatment. Thus the unit is a ZLD. Domestic sewage is being treated in STP.
iii)	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	The total fresh water requirement will be 617 CMD and the water permission letter from MIDC is enclosed as an <b>Annexure XV</b> .
iv)	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	There is no mixing of the process effluent with storm water. Separate drains and conveyance systems will be provided for the process effluent / waste water and the storm water.
v)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant	It is expected for generation of rain water from roof top area as 13694 m <sup>3</sup> /season. Aastrid will provide rain water collection tank of capacity 350 KL and it will have implemented after 1 Year of the commissioning of the project. It will be utilized for different industrial operations within the plant. The harvested rain water will not be used for recharging as there are restrictions by MIDC for boring in industrial areas. Internal Storm water drains has been connected to MIDC drains.
vi)	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	Adequate common stack height of 8 m above the enclosure is provided for 1 No of D.G set of 810 KVA.

<b>IV Noise monitoring and prevention</b>		
<b>i)</b>	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Acoustic enclosures for the D.G set is being provided for controlling the noise pollution.
<b>ii)</b>	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	Noise levels in and around the plant area are kept well within the standards. Control measures including acoustic hoods, silencers, enclosures etc. are provided for all sources of noise generation.
<b>iii)</b>	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	The ambient noise levels were monitored and the same ranged between 58.6 dB(A) at project site during day time and 72.5 dB(A) at MEE plant during night time which were found to be within the stipulated limit for the industrial area (75 dB(A))-daytime and 70 dB(A) during night time as promulgated by CPCB. The noise level report is enclosed as <b>Annexure-IX.</b>
<b>V. Energy Conservation measures</b>		
<b>i)</b>	The energy sources for lighting purposes shall preferably be LED based.	The energy sources used for lighting purposes is preferably be LED based.
<b>VI Waste management</b>		
<b>i)</b>	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	The hazardous chemicals are being stored in tanks, drums, carboys etc. Flame arresters is already provided on tank farm and the solvent transfer is done through pumps.
<b>ii)</b>	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Process organic residue and spent carbon, ETP sludge, process inorganic & evaporation salt will be disposed off to the TSDF. The valid membership letter from CHWTSDF is attached as an <b>Annexure XI.</b>
<b>iii)</b>	The company shall undertake waste minimization measures as below:	
	Metering and control of quantities of active ingredients to minimize waste.	Generated hazardous waste stored in shed and monitored record of the same and the Metering and control of quantities of active ingredients to minimize waste and Reuse of by-products from the process as raw materials or as raw material substitutes in other processes monitored.
	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	
	Use of automated filling to minimize spillage.	Seal proof pumps is provided to transfer liquid raw materials.
	Use of Close Feed system into batch reactors.	Raw material charging is done through Close Feed system into batch reactors for waste minimization.

	Venting equipment through vapor recovery system	Primary and secondary condensers is provided to each recovery unit.
	Use of high pressure hoses for equipment clearing to reduce wastewater generation	All reactor floors is already provided high pressure water gun for leaning of reactors and equipment's.
<b>VII</b>	<b>Green Belt</b>	
<b>i)</b>	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	Total green belt will be developed on 7699.79 sq. m, which is 33% of total plot area. Plants are selected as per CPCB guidelines in consultation with State Forest Department.
<b>VIII</b>	<b>Safety, Public hearing and Human health issues</b>	
<b>i)</b>	Emergency preparedness plan based on the Hazard identification and Risk Assessment (H1RA) and Disaster Management Plan shall be implemented	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is being implemented.
	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms	In material handling the unit is being arranged to protect it from potential fire hazards during the production process. Fire fighting system is already provided as per the norms.
<b>ii)</b>	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Various PPEs such as safety goggles, splash protection goggles, face shield, airline respirator among others is Provided as per factory act to the personnel working in the premises of the factory.
<b>iii)</b>	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training has been imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees will be undertaken on regular basis.
<b>iv)</b>	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Adequate provisions have been made for the construction labor within the site such as mobile toilets, safe drinking water etc. among other necessary arrangements.
<b>v)</b>	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers will be done on a regular basis and records will be maintained as per the Factories Act once the project is commissioned. We will carry out the medical examination at frequency of once in a year.

vi)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	There is adequate space provided inside the plant premises earmarked 2787.36 Sq. m for parking of vehicles for raw materials and finished products, and no parking is allowed outside on public places.
<b>IX) Corporate Environment Responsibility</b>		
i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.111 dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Aastrid will comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.111 dated 1 <sup>st</sup> May 2018 regarding Corporate Environmental Responsibility. The CER plan has submitted to District Collector for the approval and acknowledgment of the same is attached as an <b>Annexure VIII</b> . The process of approval of the same is under progress.
ii)	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report	Aastrid has well laid down EHS policy and the same is enclosed as an <b>Annexure XIX</b> .
iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	The organogram of the Environmental Management Cell has been enclosed as an <b>Annexure XVII</b> .
iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	The organogram of the Environmental Management Cell has been enclosed as an <b>Annexure XVII</b> . The year wise progress of implementation of action plan will be reported to the Ministry/Regional Office. This is the 7 <sup>th</sup> half six monthly compliance report being submitted to the Ministry/Regional Office.



v)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self-Environmental audit will be conducted annually and every three years environmental audit will be got conducted by third party.
X)	<b>Miscellaneous</b>	
i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	The advertisement related to the accord of the environmental clearance had been published in two newspapers. Advertisement in English newspaper "Daily Indian Express", and Marathi newspaper "Dainik Loksatta" given & the same was published on 11 <sup>th</sup> May 2019, i.e., within seven days from date of issue of EC. Copy of Environmental clearance letter is already uploaded on company website and screen shot of the same attached as an <b>Annexure XIV.</b>
ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt	We have not received any suggestions and representations while processing the proposals from concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local and the local NGO. Hence this clearance copy was not shared with them
iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	This is the 7 <sup>th</sup> half six monthly compliances being submitted. We will shortly upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on our website and update the same on half-yearly basis.
iv)	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	This is the 7 <sup>th</sup> half yearly EC compliance will submit. We will shortly upload the status of compliance of the stipulated EC conditions, including results of monitored data on our website and will update the same periodically. The 7 <sup>th</sup> six monthly compliances will be submitted to Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The detailed results are enclosed as an <b>Annexure IX.</b> The production has just started and monitoring was done at project site before the starting of the operation.

<b>v)</b>	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted for compliance. We will submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
<b>vi)</b>	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The production has just commenced and the environmental statement for the financial year ending 31 <sup>st</sup> March in Form-V will be submitted by the project proponent to the Maharashtra State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently.
<b>vii)</b>	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted and agreed.
<b>viii)</b>	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Noted and agreed.
<b>ix)</b>	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and agreed. We will abide by all the commitments and recommendations made in the EIA/EMP report, Public hearing is not applicable for this project as it is located in the Notified Industrial area and is subsequently categorized as "B1" which was appraised at state level by SEAC-1.
<b>x)</b>	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and agreed.
<b>xi)</b>	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted and agreed.
<b>xii)</b>	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and agreed
<b>xiii)</b>	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted for information and agreed.
<b>xiv)</b>	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The	Noted and agreed

	project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	
<b>xv)</b>	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted and agreed.
<b>xvi)</b>	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted for information.

**Annexure -I**  
**Environmental Clearance letter**



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: May 7, 2019

To,  
**Aastrid Life Sciences Pvt. Ltd.**  
at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad

**Subject:** Environment Clearance for Aastrid Life Sciences Pvt. Ltd., at Plot no. at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad, Maharashtra.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 161st meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 165th meetings.


2. It is noted that the proposal is considered by SEAC-I under screening category 5 (f) B1 as per EIA Notification 2006.

**Brief Information of the project submitted by you is as below :-**

1.Name of Project	New project for manufacturing of chemical intermediates at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad by Aastrid Life Sciences Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Aastrid Life Sciences Pvt. Ltd.
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Chemical Intermediates
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad
9.Taluka	Mahad
10.Village	Amshet
Correspondence Name:	Dr. Ravi Jagtap
Room Number:	A-514,
Floor:	TTC Industrial Area,
Building Name:	MIDC Mahape,
Road/Street Name:	-
Locality:	TTC Industrial Area,
City:	Navi Mumbai - 400 701
11.Area of the project	Additional MIDC, Mahad, Maharashtra
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 15524.94

**SEIAA Meeting No: 165 Meeting Date: April 26, 2019 ( SEIAA-STATEMENT-000001542 )**  
**SEIAA-MINUTES-0000001842**  
**SEIAA-EC-0000001492**

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**Shri. Anil Diggikar (Member Secretary SEIAA)**

13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	23228 Sq. m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	<b>FSI area (sq. m.):</b> 15524.94
	<b>Non FSI area (sq. m.):</b> -
	<b>Total BUA area (sq. m.):</b> 15524.94
18 (b).Approved Built up area as per DCR	<b>Approved FSI area (sq. m.):</b> Not applicable
	<b>Approved Non FSI area (sq. m.):</b> Not applicable
	<b>Date of Approval:</b> 30-03-2019
19.Total ground coverage (m2)	5970.68 Sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.92
21.Estimated cost of the project	800000000



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## 22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	(S)-n-ethyl-2-aminomethyl pyrrolidine	Not Applicable	60.00 MT/A	60.00 MT/A
2	N-ethyl-2-aminomethyl pyrrolidine	Not Applicable	120.00 MT/A	120.00 MT/A
3	2H-thieno[2,3-e]-1,2-thiazine-3-carboxylic acid-6-chloro-4-hydroxy-2-methyl-methyl ester,1,1-dioxide	Not Applicable	12.00 MT/A	12.00 MT/A
4	2-Amino-3-nitro-6-chloropyridine	Not Applicable	24.00 MT/A	24.00 MT/A
5	5,6-Dimethoxy Indanone	Not Applicable	60.00 MT/A	60.00 MT/A
6	5-Chloro-3-Sulfonamide Acetate Thiophene-2-Carboxylate	Not Applicable	60.00 MT/A	60.00 MT/A
7	Glycine Methyl Ester Hydrochloride	Not Applicable	12.00 MT/A	12.00 MT/A
8	(S)-3-Hydroxy Tetrahydrofuran	Not Applicable	36.00 MT/A	36.00 MT/A
9	(R)-3-Hydroxy Tetrahydrofuran	Not Applicable	12.00 MT/A	12.00 MT/A
10	2,5-Pyridinedicarboxylic Acid,1-(2,2-Dimethoxyethyl)-1,4-Dihydro-3-Methoxy-4-Oxo-2-Methyl Ester	Not Applicable	60.00 MT/A	60.00 MT/A
11	Methyl-4-Methoxy Oxobutanoate	Not Applicable	60.00 MT/A	60.00 MT/A
12	2,4,5-Trimethoxy Benzoic Acid	Not Applicable	36.00 MT/A	36.00 MT/A
13	2-Aminothiazol-4-Carboxylic Acid Ethyl Ester	Not Applicable	36.00 MT/A	36.00 MT/A
14	(1S)-2-(Dimethyl amino)-1-Phenylethanol	Not Applicable	24.00 MT/A	24.00 MT/A
15	3-(Bromomethyl)-7-Chlorobenzof[B] Thiophene	Not Applicable	24.00 MT/A	24.00 MT/A
16	Methyl-5-Formyl-2-Methoxy Benzoate	Not Applicable	24.00 MT/A	24.00 MT/A
17	4-Isobutoxybenzylamine	Not Applicable	36.00 MT/A	36.00 MT/A
18	N-(4-fluorobenzyl)-1-methylpiperidin-4-amine	Not Applicable	24.00 MT/A	24.00 MT/A
19	Propiolic acid	Not Applicable	12.00 MT/A	12.00 MT/A
20	N-(4-Aminobenzoyl)-beta alanine	Not Applicable	60.00 MT/A	60.00 MT/A
21	1,2,6-Hexanetriol	Not Applicable	12.00 MT/A	12.00 MT/A
22	Cyclo butyl Carbinol	Not Applicable	24.00 MT/A	24.00 MT/A
23	6-[methyl(phenylsulfonyl)amino]- hexanoic acid	Not Applicable	300.00 MT/A	300.00 MT/A
24	Cyano methyl imidazole	Not Applicable	36.00 MT/A	36.00 MT/A
25	5-methylisoxazole-4-carboxylic acid	Not Applicable	24.00 MT/A	24.00 MT/A
26	6-Bromo 2- naphthoic acid methyl ester	Not Applicable	24.00 MT/A	24.00 MT/A
27	Ethyl 7 chloroheptanoate	Not Applicable	24.00 MT/A	24.00 MT/A
28	Trans- Pentenoic acid	Not Applicable	24.00 MT/A	24.00 MT/A
29	3 nitro 2 methyl benzoic acid	Not Applicable	24.00 MT/A	24.00 MT/A
30	5 nitro 2 methoxy phenol	Not Applicable	24.00 MT/A	24.00 MT/A
31	Bis(4-hydroxyphenyl) (2pyridyl) methane / DeacetylBisacodyl	Not Applicable	60.00 MT/A	60.00 MT/A
32	2-((4-amino pentyl) (ethyl)amino) ethanol	Not Applicable	24.00 MT/A	24.00 MT/A
33	Total	--	1392.00 MT/A	1392.00 MT/A

## 23. Total Water Requirement

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<b>Dry season:</b>	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not applicable
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Wet season:</b>	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not applicable
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Details of Swimming pool (If any)</b>	Not applicable	

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## 24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not Applicable	10.00	10.00	Not Applicable	(-) 02.00	(-) 02.00	Not Applicable	08.00	08.00
Industrial Process	Not Applicable	67.00	67.00	Not Applicable	(+) 19.4	(+) 19.4	Not Applicable	86.4	86.4
Cooling tower & thermopack	Not Applicable	502.00	502.00	Not Applicable	(-) 290.00	(-) 290.00	Not Applicable	212.00	212.00
Gardening	Not Applicable	38.00	38.00	Not Applicable	(-) 38.00	(-) 38.00	Not Applicable	00.00	00.00
Fresh water requirement	Not Applicable	617.00	617.00	Not Applicable	(-) 310.6	(-) 310.6	Not Applicable	306.4	306.4

<b>25.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	5 -10 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	1 No. - Capacity - 130 CMD
	<b>Location of the RWH tank(s):</b>	UG water Tank - Near pump area
	<b>Quantity of recharge pits:</b>	Not applicable as collected water will be reused.
	<b>Size of recharge pits :</b>	Not applicable as collected water will be reused.
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 20.0 lacs.
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 5.2 lacs. /annum
	<b>Details of UGT tanks if any :</b>	i) 2 numbers tank of water with capacity -500 m <sup>3</sup>

<b>26.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Proper and separate storm water drains will be provided as per natural slopes.
	<b>Quantity of storm water:</b>	515.2 m <sup>3</sup> /hr.
	<b>Size of SWD:</b>	212.1 lit/sec.

<b>27.Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Total: 8 CMD
	<b>STP technology:</b>	Combined treatment of domestic waste water in ETP.
	<b>Capacity of STP (CMD):</b>	Not Applicable
	<b>Location &amp; area of the STP:</b>	Not Applicable
	<b>Budgetary allocation (Capital cost):</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not Applicable



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## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Not Applicable
	<b>Disposal of the construction waste debris:</b>	Excavated Soil will be used for land filling.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Hazardous Waste: • Discarded drums and containers = 2400 Nos./A; • Contaminated Polyethylene bags/liners = 1.5 TPA; • Non-Hazardous Waste: Non Contaminated Polyethylene Bags = 4.0 TPA; Paper Bags = 1.5 TPA; MS/SS Metal Scrap HDPE/FRP/PP Scrap = 35 TPA
	<b>Wet waste:</b>	Hazardous Waste: • ETP Sludge- 300 TPA; • MEE salts - 4980 TPA; • Spent Carbon from ETP - 65 TPA; • Spent Carbon from process - 15.12 TPA; • Spent Catalyst from process - 25.44 TPA; • Spent solvent from process - 2880 TPA; • Residue from Process - 1200 TPA
	<b>Hazardous waste:</b>	Hazardous Waste: • ETP Sludge- 300 TPA; • MEE salts - 4980 TPA; • Spent Carbon from ETP - 65 TPA; • Spent Carbon from process - 15.12 TPA; • Spent Catalyst from process - 25.44 TPA; • Spent solvent from process - 2880 TPA; • Residue from Process - 1200 TPA; • Discarded drums and containers = 2400 Nos/A; • Contaminated Polyethylene bags/liners = 1.5 TPA; Non-Hazardous Waste: • Non Contaminated Polyethylene Bags = 4.0 TPA; • Paper Bags = 1.5 TPA; • MS/SS Metal Scrap HDPE/FRP/PP Scrap = 35 TPA
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	• E - Waste - 0.2 TPA; • Battery Waste - 0.2 T/A
	<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>
	<b>Wet waste:</b>	CHWTSDF/Sale to authorized party /To authorized party for Regeneration
	<b>Hazardous waste:</b>	CHWTSDF/Sale to authorized party /To authorized party for Regeneration
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Sale to authorized dismantlers/Recyclers.
<b>Area requirement:</b>	<b>Location(s):</b>	Manufacturing area and administration, raw material and finished goods storage area, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & Green belt area.
	<b>Area for the storage of waste &amp; other material:</b>	• Raw material/ Finished Good Storage Area - 850.47 Sq. m (Ground coverage); • Hazardous Waste Storage Area - 45.00 Sq.m
	<b>Area for machinery:</b>	4210.68 Sq.m
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	1.0 Lacs.
	<b>O &amp; M cost:</b>	550.00 Lacs/A

## 29. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	7.0 - 7.5	7.0 - 7.5	6.5- 8.5
2	COD	mg/lit	3000 - 4000	<250	<250
3	BOD <sub>3</sub> , 27°C	mg/lit	1500 - 2000	<100	<100
4	TSS	mg/lit	100 - 200	<100	<100
5	TDS	mg/lit	1200 - 1300	<2100	<2100
Amount of effluent generation (CMD):		Industrial - 298.4 CMD; Domestic - 8.0 CMD			
Capacity of the ETP:		388.00 CMD			
Amount of treated effluent recycled :		No water will be recycled.			
Amount of water send to the CETP:		323.00 CMD			
Membership of CETP (if require):		Yes			
Note on ETP technology to be used		High COD & TDS stream from process will be treated in Multiple Effect Evaporator (MEE). MEE condensate along with utility blow downs will be treated in full-fledged ETP. Domestic wastewater will also be treated in secondary as a combined treatment. After tertiary treatment effluent will be discharged to CETP.			
Disposal of the ETP sludge		CHWTSDF			


  
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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residue from Process	28.1	TPA	Not Applicable	1200	1200	Sale to authorized party /CHWTSDF
2	ETP Sludge	35.3	TPA	Not Applicable	300	300	To CHWTSDF
3	MEE salts	35.3	TPA	Not Applicable	4980.0	4980.0	To CHWTSDF
4	Spent Carbon from ETP	35.3	TPA	Not Applicable	65.00	65.00	To CHWTSDF
5	Spent Carbon from process	28.3	TPA	Not Applicable	15.12	15.12	To CHWTSDF
6	Spent Catalyst from process	28.2	TPA	Not Applicable	25.44	25.44	Regenerate from authorised party
7	Spent Solvent from process	28.6	TPA	Not Applicable	2880	2880	Sale to authorized party/CHWTSDF
8	Discarded drums & containers	33.1	Nos./A	Not Applicable	2400.00	2400.00	Sale to authorised party for reuse
9	Contaminated Polyethylene bags/liners	33.1	TPA	Not Applicable	1.5	1.5	To CHWTSDF
10	Other Waste	--	--	--	--	--	--
11	E-waste	Not Specified	TPA	Not Applicable	0.2	0.2	Sale to authorized dismantlers/Recyclers
12	Battery Waste	Not Specified	TPA	Not Applicable	0.2	0.2	Sale to authorized dismantlers/Recyclers
13	Non-Hazardous Waste Details	--	--	--	--	--	--
14	Non-contaminated polyethylene bags	Not Specified	TPA	Not Applicable	4	4	Reuse/sale to authorized party
15	Paper Bags	Not Specified	TPA	Not Applicable	1.5	1.5	Sale to authorized party
16	MS/SS Metal Scrap HDPE/FRP/PP Scrap	Not Specified	TPA	Not Applicable	3.5	3.5	Sale to authorized party

31.Stacks emission Details						
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler - 5 TPH (Proposed)	Briquette 30.00 TPD / Furnace oil 13 TPD for both boilers	1	45.0 (Combine stack for both boilers)	0.6	125°C
2	Boiler - 5 TPH (Proposed)	Briquette 30.00 TPD / Furnace oil 13 TPD for both boilers	1	45.0 (Combine stack for both boilers)	0.6	125°C
3	Thermopac - 1000000 Kcal./hr. (Proposed)	Furnace Oil 2.2 TPD	1	30.0	0.4	130°C

4	DG Set - 1500 KVA 3 nos. (Proposed)	HSD, 1000 lit/hr.	1	30.0	0.2	140°C
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### 32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total	
1	Briquette	Not Applicable	30.0 TPD	30.0 TPD	
2	Furnace oil	Not Applicable	15.2 TPD	15.2 TPD	
3	HSD	Not Applicable	1000.0 lit/hr.	1000.0 lit/hr.	
33.Source of Fuel		Local & Imported			
34.Mode of Transportation of fuel to site		By Road			

### 35.Energy

<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	2800 KW
	During Operation phase (Demand load):	2100 KW
	Transformer:	2500 KVA
	DG set as Power back-up during operation phase:	Proposed: 3 DG sets - 1500 KVA each
	Fuel used:	HSD
Details of high tension line passing through the plot if any:	No high tension lines are passing through the plot	

### Energy saving by non-conventional method:

Astrid will provide solar panel system on parking area 1&2. Electricity of 45kW generated from these solar panels will be used to illuminate Street light and admin building.

### 36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Power	2%

### 37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Not Applicable	Multicyclone followed by bag filter & stacks for heating unit & scrubbers
Water	Not Applicable	Multi Effect Evaporator & Effluent Treatment Plant
Noise	Not Applicable	Acoustic encl./ Ant vibration pads


Solid Waste	Not Applicable		Disposal to CHWTSDF	
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	90.8 Lacs		
	<b>O &amp; M cost:</b>	1.0 Lac/A		
<b>38.Environmental Management plan Budgetary Allocation</b>				
<b>a) Construction phase (with Break-up):</b>				
<b>Serial Number</b>	<b>Attributes</b>	<b>Parameter</b>	<b>Total Cost per annum (Rs. In Lacs)</b>	
1	Dust	Air Pollution	1.0	
2	Debris	Solid Waste	1.0	
3	Construction equipment	Noise Pollution	0.5	
<b>b) Operation Phase (with Break-up):</b>				
<b>Serial Number</b>	<b>Component</b>	<b>Description</b>	<b>Capital cost Rs. In Lacs</b>	<b>Operational and Maintenance cost (Rs. in Lacs/yr)</b>
1	Air pollution control	Provision of Bag filter & Stacks for heating units & Scrubbers	45.00	10.00
2	Water pollution control	Multi Effect Evaporator & Effluent Treatment Plant	366.00	543.00
3	Noise pollution Control	Acoustic encl./ Ant vibration pads	45.0	7.0
4	Occupational health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	25.00	3.00
5	Environmental Monitoring budget	Environmental Monitoring	--	2.09
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	1.0	550.00
7	Mitigation Measures for LCA	Installation of solar Panels	90.8	1.0
8	Green belt	Development & Maintenance	18.00	4.00
9	Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)	1) Installation of solar Panels* for reduction of consumption of electricity which indirectly reduce carbon footprint. 2) Tree plantation*, 3) Reduction of fuel consumption by using well efficient insulation to heating equipment.	1.2	0.015

10	Water Footprint Monitoring (Measures taken to reduce water footprint)	1) Rain water harvesting & use of rain water in utilities & domestic 2) Regular maintenance of equipment's to reduce wastage of water due to leaks	21.0	5.52
11	Total	-	573.00	1125.625

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Methanol	Liquid	CCOE TANK FARM AREA	20 T	16	610	Local	By Road
Methylene Dichloride	Liquid	CCOE TANK FARM AREA	20 T	12	4	Local	By Road
Toluene	Liquid	CCOE TANK FARM AREA	20 T	12	115	Local	By Road
Acetic Acid	Liquid	CCOE DRUM STO. AREA	35 Lit	1.75	2	Local	By Road
Acetic Anhydride	Liquid	CCOE DRUM STO. AREA	35 Lit	0.4	20	Local	By Road
Bromine	Liquid	CCOE DRUM STO. AREA	18 Lit	1.44	20	Local	By Road
Benzyl Cynide	Liquid	CCOE DRUM STO. AREA	200 Lit	8.0	5	Local	By Road
Chlorine Gas	Gas	NEAR MFG. AREA	100 m3	4.0	6	Local	By Road
Chlorine Gas (Tonner)	Gas	NEAR ETP AREA	900 m3	27.0	2000	Local	By Road
Chloro Acetone	Liquid	CCOE DRUM STO. AREA	200 Lit	5.0	4	Local	By Road
Chloroform	Liquid	CCOE DRUM STO. AREA	250 Lit	25.0	50	Local	By Road
Di Methyl Formamide (DMF)	Liquid	CCOE DRUM STO. AREA	190 Lit	3.8	20	Local	By Road
Ethyl Acetate	Liquid	CCOE DRUM STO. AREA	190 Lit	15.2	80	Local	By Road
Ethylene Di Chloride (EDC)	Liquid	CCOE DRUM STO. AREA	250 Lit	12.5	55	Local	By Road
Hydrogen Gas Cylinder	Gas	NEAR MFG. AREA 1	5.7 m3	9.12	50	Local	By Road
Hydrogen Gas Cylinder Trolley	Gas	NEAR MFG. AREA 1	7.2 m3	43.2	85	Local	By Road
Hydrogen Peroxide	Liquid	CCOE DRUM STO. AREA	30 Lit	1.5	610	Local	By Road
Liquor Ammonia (Cylinder)	Gas	CCOE DRUM STO. AREA	200 m3	5.0	4	Local	By Road
Pyridine	Liquid	CCOE DRUM STO. AREA	200 Lit	3.0	2	Local	By Road

### 40.Any Other Information

<b>SEIAA Meeting No: 165 Meeting Date: April 26, 2019 ( SEIAA-STATEMENT-000001542 )</b> <b>SEIAA-MINUTES-0000001842</b> <b>SEIAA-EC-0000001492</b>	<b>Page 12 of 16</b>	 <b>Shri. Anil Diggikar (Member Secretary SEIAA)</b>
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# Government of Maharashtra

	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not Applicable
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	No such areas within 10 km radius circle.
	<b>Category as per schedule of EIA Notification sheet</b>	5 (f) B1
	<b>Court cases pending if any</b>	Not Applicable
	<b>Other Relevant Informations</b>	Not Applicable
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	09-07-2018

**3. The proposal has been considered by SEIAA in its 165th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:**

**Specific Conditions:**

<b>I</b>	PP to prepare protocol/SOP for the storage, handing and use of the Nitromethane.
<b>II</b>	PP to submit On-Site Emergency Plan to the District Authorities.
<b>III</b>	PP to plant domestic/indigenous species of trees in the green belt.
<b>IV</b>	PP to include monitoring of water and carbon foot print in the EMP.
<b>V</b>	PP to prepare and implement CER plan in consultation with the District Collector with timelines as per OM issued by MoEF&CC dated 01.05.2108.
<b>VI</b>	PP to use new and renewable energy source for illumination of street lights and office building.
<b>VII</b>	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
<b>VIII</b>	PP to prepare and implement CER plan in consultation with the District Collector with timelines as per OM issued by MoEF&CC dated 01.05.2108.

**General Conditions:**

<b>I</b>	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
<b>II</b>	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
<b>III</b>	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
<b>IV</b>	Proper Housekeeping programmers shall be implemented.
<b>V</b>	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
<b>VI</b>	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
<b>VII</b>	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
<b>VIII</b>	Arrangement shall be made that effluent and storm water does not get mixed.
<b>IX</b>	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.
<b>X</b>	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

XI	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	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.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	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.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO <sub>2</sub> , NO <sub>x</sub> (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.
XXIV	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.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as 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.

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.

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 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.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

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.

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.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Shri. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. REGIONAL OFFICE MPCB RAIGAD
10. REGIONAL OFFICE MIDC RAIGAD
11. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
12. COLLECTOR OFFICE RAIGAD

**Annexure -II**

**Consent to Operate**

# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax: 24023516  
Website: <http://mpcb.gov.in>  
Email: [ast@mpcb.gov.in](mailto:ast@mpcb.gov.in)



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

RED/L.S.I (R22)

No:- Format1.0/CC/UAN No.0000123206/CO - 2111000838

Date: 22/11/2021

To,  
Aastrid Life Sciences Private Limited,  
Plot No.-FS-1 & FS-2, Additional Industrial Area,  
Mahad. Village Amshet  
Tal.- Mahad, Dist -Raigad



Your Service is Our Duty

**Sub: Consent to Operate (Part) in RED/LSI Category.**

- Ref:**
1. Consent to Establish granted by the Board Vide No. Format 1.0/BO /CAC - Cell/ UAN No. 0000058314 / 8th CAC -1909000975, Date. 25.09.2019.
  2. Environmental Clearance granted by Environment Department; Govt. of Maharashtra vide No. SEIAA-EC-0000001492 dtd 7.05.2019.

Your application No.MPCB-CONSENT-0000123206 Dated 07.10.2021

For: Grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to operate is granted for a period up to 31/10/2026**
2. **The capital Investment of the project is Rs.73.1819 Crs. (As per C.A Certificate submitted by Industry Existing CI is-Rs. 73.1819 Crs + Expansion/Increase in C.I. - Rs. 0.0Crs)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	(S)-n-ethyl-2-Aminomethyl Pyrrolidine	42	MT/A
2	N-ethyl-2-Aminomethyl Pyrrolidine	80	MT/A
3	2H-thieno[2,3-e]-1,2-thiazine-3-carboxylic acid-6-chloro-4-hydroxy-2-methyl-methyl ester,1,1-dioxide	9	MT/A
4	2-Amino-3-Nitro-6-Chloropyridine	17	MT/A
5	5,6-Dimethoxy Indanone	42	MT/A
6	5-Chloro-3-Sulfonamide Acetate Thiophene-2-Carboxylate	42	MT/A
7	Glycine Methyl Ester Hydrochloride	9	MT/A
8	(S)-3-Hydroxy Tetrahydrofuran	25	MT/A
9	(R)-3-Hydroxy Tetrahydrofuran	9	MT/A
10	2,5-Pyridinedicarboxylic Acid,1-(2,2-Dimethoxyethyl)-1,4-Dihydro-3-Methoxy-4-Oxo-2-Methyl Ester	42	MT/A

<b>Sr No</b>	<b>Product</b>	<b>Maximum Quantity</b>	<b>UOM</b>
11	Methyl-4-Methoxy Oxobutanoate	42	MT/A
12	2,4,5-Trimethoxy Benzoic Acid	25	MT/A
13	2-Aminothiazol-4-Carboxylic Acid Ethyl Ester	25	MT/A
14	(1S)-2-(Dimethyl amino)-1-Phenylethanol	17	MT/A
15	3-(Bromomethyl)-7-Chlorobenzo[B] Thiophene	17	MT/A
16	Methyl-5-Formyl-2-Methoxy Benzoate	17	MT/A
17	4-Isobutoxybenzylamine	25	MT/A
18	N-(4-fluorobenzyl)-1-methylpiperidin-4-amine	17	MT/A
19	Propiolic acid	9	MT/A
20	N-(4-Aminobenzoyl)-beta alanine	42	MT/A
21	1,2,6-Hexanetriol	9	MT/A
22	Cyclo butyl Carbinol	17	MT/A
23	6-[methyl(phenylsulfonyl)amino]- hexanoic acid	209	MT/A
24	Cyano methyl imidazole	25	MT/A
25	5-methylisoxazole-4-carboxylic acid	17	MT/A
26	6-Bromo 2- naphthoic acid methyl ester	17	MT/A
27	Ethyl 7 chloroheptanoate	17	MT/A
28	Trans- Pentenoic acid	17	MT/A
29	3 nitro 2 methyl benzoic acid	17	MT/A
30	5 nitro 2 methoxy phenol	17	MT/A
31	Bis(4-hydroxyphenyl) (2pyridyl) methane / DeacetylBisacodyl	42	MT/A
32	2-((4-amino pentyl) (ethyl)amino) ethanol	17	MT/A
33	TOTAL	974	MT/A

**4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

<b>Sr No</b>	<b>Description</b>	<b>Permitted (in CMD)</b>	<b>Standards to</b>	<b>Disposal Path</b>
1.	Trade effluent	100	As per Schedule-I	Recycle 100% to achieve ZLD
2.	Domestic effluent	8	As per Schedule-I	Recycle 100% to achieve ZLD

**5. Conditions under Air (P& CP) Act, 1981 for air emissions:**

<b>Sr No.</b>	<b>Stack No.</b>	<b>Description of stack / source</b>	<b>Number of Stack</b>	<b>Standards to be achieved</b>
1	S-1	Boiler (3 TPH)	1	As per Schedule -II
2	S-2	Boiler (3 TPH)	1	As per Schedule -II

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
3	S-3	Thermopack	1	As per Schedule -II
4	S-4	DG Set (850 KVA)	1	As per Schedule -II
5	S-5	Process Stack	1	As per Schedule -II
6	S-6	Process Stack	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Paper bags	1.05	MT/A	Sale	Sale to authorized party
2	MS/SS Metal, Scrap, HDPE/FRP/PP Scrap	24.5	MT/A	Sale	Sale to authorized party

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	28.1 Process Residue and wastes	840	MT/A	Incineration	CHWTSDF
2	35.3 Chemical sludge from waste water treatment	210	MT/A	Landfill after treatment	CHWTSDF
3	37.3 (MEE Salts)	3486	MT/A	Landfill	CHWTSDF
4	35.3 (Spent Carbon from ETP)	46	MT/A	Landfill	CHWTSDF
5	28.3 Spent carbon	10.58	MT/A	Landfill after treatment	CHWTSDF
6	28.2 Spent catalyst	17.8	MT/A	Recycle*	Sale to authorised party / CHWTSDF
7	28.6 Spent solvents	2016	MT/A	Recycle*	Sale to authorised party / CHWTSDF
8	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1680	Nos./Y	Recycle*	Sale to authorised party / CHWTSDF
9	33.1 (Contaminated Polyethylene Bags /Liners)	1.05	MT/A	Incineration	CHWTSDF

**\* Industry shall ensure disposal of Hazardous Waste to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.**



8. **Conditions under Batteries (Management & Handling) Rules, 2001:**

<i>Sr No</i>	<i>Type of Waste</i>	<i>Quantity</i>	<i>UoM</i>	<i>Disposal Path</i>
1	Battery Waste	0.14	MT/A	Sale to Authorized Recyclers.

**Specific Conditions for used Batteries:**

- i. The applicant shall ensure that used batteries are not disposed of in any manner other than by depositing with the authorized dealer/ manufacturer/ registered recycler/ importer/ re-conditioner or at the designated collection center.
- ii. The applicant shall file half-yearly return in Form VIII to the M.P.C. Board.
- iii. Bulk consumers to their user units may auction used batteries to registered recyclers only.

9. **Conditions under Plastic Waste Management Rules, 2016 (Notification dtd. 18/03/2016):**

<i>Sr No</i>	<i>Type of Waste</i>	<i>Quantity</i>	<i>UoM</i>	<i>Disposal Path</i>
1	Polyethylene Bag	2.80	MT/A	Sale to Authorized Recycler

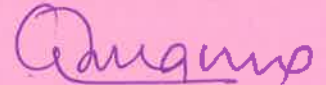
10. **Conditions under E-Waste Management:**

<i>Sr No</i>	<i>Type of Waste</i>	<i>Quantity</i>	<i>UoM</i>	<i>Disposal Path</i>
1	E- Waste	0.14	MT/A	Sale to Authorized Recycler.

11. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
12. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
13. The industry shall obtain necessary permission from the Directorate of Industrial Safety and Health (DISH).
14. The applicant shall not carry out any excess production or produce new products without Consent of the Board and without Environmental Clearance wherever it applicable.
15. The applicant shall comply with the conditions of the Environmental Clearance granted by Env. Department, GoM vide No.- SEIAA-EC-0000001492 dtd 7.05.2019.
16. Industry shall switch over to cleaner fuel instead of F.O. as per Boards Circular dtd. 05.02.2020 within six months.
17. This consent is issued as per the Office Order for Consent Management of the Board No. 12/2020 dtd. 23.12.2020.
18. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)
19. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)
20. Industry shall restrict the effluent generation to 100 CMD and shall achieve ZLD. High COD stream - 50 CMD, Low COD /D.E and Condensate - 50 CMD.
21. Industry shall switch over to cleaner fuel instead of F.O. as per Boards Circular dtd. 05.02.2020 within six months.

22. The industry shall ensure connectivity online monitoring system to the CPCB and MPCB server including separate energy meter for pollution control system.

For and on behalf of the  
Maharashtra Pollution Control Board.

  
(Ashok Shingare IAS),  
Member Secretary

**Received Consent fee of -**

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	25000.00	MPCB-DR-8381	18/10/2021	NEFT

**Balance Consent fees of Rs.5,00,000 /- with the Board as per the Consent No. Format 1.0/BO /CAC -Cell/ UAN No. 0000058314 / 8th CAC -1909000975, Date. 25.09.2019 .is utilized completely. for grant of this consent.**

**Copy to:**

1. Regional Officer, MPCB, Raigad and Sub-Regional Officer, MPCB, Mahad  
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC updation.



## **SCHEDULE-I**

### **Terms & conditions for compliance of Water Pollution Control:**

1. A) As per your application, you have segregated trade effluent into weak stream & strong stream and provided Effluent Treatment Plant (ETP) comprising of:
  - i) **Strong COD/TDS stream of 50 CMD** - Treatment system comprising of Primary (Collection tank, Neutralization tank, Equalization tank, Primary Clarifier/Primary Settling Tank) , Multi effect evaporator (4 stage) followed by ATFD. The MEE condensate is treated in weak stream ETP.
  - ii) **Weak COD/TDS stream of 50 CMD** - Treatment system comprising of Primary (Collection tank, Neutralization tank, Equalization tank, Flash mixer, Primary Clarifier/Primary Settling Tank), Secondary (Sequential batch reactor), Tertiary (Pressure sand filter, Activated carbon filter), Advance treatment (Reverse osmosis) .
- B) The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent and recycle the entire treated effluent into the process for various purposes such as for cooling, process & Scrubbing with metering system so as to achieve Zero Liquid Discharge. There shall be no discharge on land or outside factory premises.
- C) The Industry shall ensure connectivity online monitoring system to the MPCB server including separate energy meter for pollution control system.
2. A) As per your application, primary treated sewage connected to Effluent Treatment Plant for further treatment & disposal.
- B) Industry shall comply prescribed standards & disposal path as prescribed at Sr. No. 1B of schedule I.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

<b>Sr. No.</b>	<b>Purpose for water consumed</b>	<b>Water consumption quantity (CMD)</b>
1.	Industrial Cooling, spraying in mine pits or boiler feed	502.00
2.	Domestic purpose	10.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	67.00

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	38

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

#### SCHEDULE-II

##### Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S-1	Boiler	Fabric Bag Filter Multi Cyclone	31.00	Briquettes 18 MT/Day	0.06	TPM	150 Mg/Nm <sup>3</sup>
				FO 16.4 MT/Day	4.5	SO <sub>2</sub>	21.6 Kg/Day
					SO <sub>2</sub>	147 Kg/Day	
S-2	Boiler	Fabric Bag Filter Multi Cyclone	31.00	Briquettes 18 MT/Day	0.06	TPM	150 Mg/Nm <sup>3</sup>
				FO 16.4 MT/Day	4.5	SO <sub>2</sub>	21.6 Kg/Day
					SO <sub>2</sub>	147 Kg/Day	
S-3	Thermopack	Stack	30.00	Furnace Oil 2.2 MT/Day	4.5	TPM	150 Mg/Nm <sup>3</sup>
						SO <sub>2</sub>	198 Kg/Day
S-4	DG Set	Stack	1.00	HSD 1000 Ltr/Hr	1	SO <sub>2</sub>	480 Kg/Day
S-5	Process Stack(2 nos)	Stack	1.00	-	-	Acid Mist	35 Mg/Nm <sup>3</sup>

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

**SCHEDULE-III**  
**Details of Bank Guarantees:**

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	50000	15 days/Extended	Towards O & M of pollution control system and compliance of consent conditions	31.10.2026	28.02.2027

**BG Forfeiture History**

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

**BG Return details**

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

**SCHEDULE-IV**  
**General Conditions:**

1. The waste generator shall.-
  - a) take steps to minimize generation of plastic waste and segregate plastic waste at source in accordance with the Plastic Waste Management Rules, 2016 or as amended from time to time.
  - b) not litter the plastic waste and ensure segregated storage of waste at source and handover segregated waste to urban local body or gram panchayat or agencies appointed by them or registered waste pickers', registered recyclers or waste collection agencies;
2. All institutional generators of plastic waste, shall segregate and store the waste generated by them in accordance with the Plastic Waste Management Rules, 2016 amendment from time to time and handover segregated wastes to authorized waste processing or disposal facilities or deposition centers either on its own or through the authorized waste collection agency.
3. All waste generators shall pay such user fee or charge as may be specified in the byelaws of the local bodies for plastic waste management such as waste collection or operation of the facility thereof, etc.;
4. Every person responsible for organizing an event in open space, which involves service of food stuff in plastic or multilayered packaging shall segregate and manage the waste generated during such events in accordance with the Plastic Waste Management Rules, 2016 amendment from time to time.
5. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler

6. Bulk consumers of electrical and electronic equipment listed in Schedule I shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
7. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under;
8. Bulk consumers of electrical and electronic equipment listed in Schedule I shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.
9. Specific Conditions for storage, Handling and Disposal of Waste from Electrical & Electronic equipment (WEEE):
  1. **Collection of WEEE** - The applicant must provide appropriate and dedicated vehicles duly identified as per the norms for transportation of Hazardous Waste. The applicant shall obtain all the required permits for transportation of WEEE from competent authority. The applicant shall ensure the safe transport of the WEEE without any spillage during transportation.

**Storage for disassembled parts:** The applicant must provide appropriate storage for disassembled spare parts from WEEE. Some spare parts (e.g. motors and compressors) will contain oil and/or other fluids. Such part must be appropriately segregated and stored in containers that are secured such that oil and other fluids cannot escape from them. These containers must be stored on an area with an area with an impermeable surface and a sealed drainage system.
  2. **Storage for other components and residues:** Other components and residues arising from the treatment of WEEE will need to be contained following their removal for disposal or recovery. Where they contain hazardous substances they should be stored on impermeable surface and in appropriate containers or bays with weatherproof covering. Containers should be clearly labelled to identify their contents and must be secured so that liquids, including rain water cannot enter them. Components should be segregated having regard to their eventual destinations and the compatibility of the component types. All batteries should be handled and stored having regard to the potential fire risk associated with them.
  3. **Balances** : WEEE Guidelines also requires that sites for handling of WEEE have "balances to measure the weight of the segregated waste". The objective is to ensure that a record of weights can be maintained of WEEE entering a facility and components and materials leaving each site (together with their destinations). The nature of the weighing equipment should be appropriate for the type and quantity of WEEE being processed.
  4. Plastic, which cannot be recycled and is hazardous in nature, is recommended to be land filled in nearby CHWTSDF.
  5. Ferrous and nonferrous metal recycling facilities fall under the purview of existing environmental regulations for air, water, noise, land and soil pollution and generation of hazardous waste and the same should be followed.
  6. CFCS should be either reused or incinerated in common hazardous waste Incineration facilities at CHWTSDF.


7. Waste Oil should be either reused or incinerated in common hazardous waste incineration facilities.
  8. PCB's containing capacitors shall be incinerated in common hazardous waste incineration facilities at CHWTSDf.
  9. Mercury recovery and lead recycling facilities from batteries fall under the Hazardous & Other Wastes (M & TM) Rules, 2016.
  10. Existing environmental regulations for air; water; noise, land and soil pollution and generation of hazardous waste and the same should be followed. In case Mercury or lead recovery is very low, they can be temporarily stored at e-waste recycling facility and later disposed in TSDf.
  11. The industry shall maintain records of the e-waste purchased, processed in Form-2 and shall file annual returns of its activities of previous year in Form-3 as per Rules 11(9) & 13(3)(vii) of the E-Waste(M) Rules, 2016; on or before 30th day of June of every year.
10. The Energy source for lighting purpose shall preferably be LED based
  11. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
  12. Conditions for D.G. Set
    - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
    - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
    - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
    - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
    - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
    - f) D.G. Set shall be operated only in case of power failure.
    - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
    - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
  13. The applicant shall maintain good housekeeping.
  14. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
  15. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.

16. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
17. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
18. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
19. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
20. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
21. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
22. The PP shall provide personal protection equipment as per norms of Factory Act
23. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
24. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
25. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
26. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
27. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
28. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website ([www.mpcb.gov.in](http://www.mpcb.gov.in)).
29. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
30. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



31. The industry should not cause any nuisance in surrounding area.
32. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
33. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
34. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
35. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
36. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
37. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
38. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
39. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
40. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
41. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
42. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

For and on behalf of the  
Maharashtra Pollution Control Board.

  
(Ashok Shingare IAS),  
Member Secretary

**Annexure -III**

**Latest Photographs of the  
Plant after  
commencement of the  
project**

# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

QC (GC Room)



QC ( HPLC Room)



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.  
QC (Weight Analysis Room)



QA Office



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

QA QC Office Corridor



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Roof Top Solar Panel



Trans Farmer Yard



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Ware House building



Ware House storage



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Ware House Cold Storage



Ware House Class A Storage





# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Ware House Class A Storage Under Ground Tank



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Admin Building



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Utility Building



**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**

ZLD PLANT



LOW COD COLLECTION TANK



**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**

**HIGH COD PRIMARY TREATMENT**



**MEE PLANT**



**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**

RO PLANT



**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**



STP PLANT



# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.

Admin Building



Utility Building





# AASTRID LIFE SCIENCES PVT LTD

PLOT FS1, FS2, FIVE STAR MIDC MAHAD, VILLAGE AMSHET, TAL-MAHAD, DIST-RAIGAD.



**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**

PRODUCTION BLOCK GROUND FLOOR



PRODUCTION BLOCK FIRST FLOOR



PRODUCTION BLOCK SECOND FLOOR

**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**



PRODUCTION BLOCK TERRACE UTILITY



**Annexure -IV**  
**Area Statement**

## Area Statement

Sr. No.	Particular	Ground Area in Sq. m
1	Total Plot Area	23228
2	Permissible Built-up area on ground coverage	11614
3	Permissible FSI area	23228
4	Green Belt Area (33% of total plot area)	7699.79
5	Parking Area (12% of total plot area)	2787.36
6	Internal road	3230.60

**Annexure -V**

**SOP for the storage handling &**

**Use of Nitromethane**


### Standard Operating Procedure Nitromethane

Type of SOP:	<input type="checkbox"/> Process	<input checked="" type="checkbox"/> Hazardous Chemical	<input type="checkbox"/> Hazardous Class
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#### ➤ Uses

Nitromethane has a variety of uses. It is used as a stabilizer for chlorinated solvents, used in dry cleaning, semiconductor processing, and degreasing. It is most commonly known for its use as a fuel in motor racing, as well as rockets.

#### ➤ Physical and Chemical Properties / Definition of Chemical Group

CAS:	75-52-5	
Class:	Flammable, Carcinogen, Target organ effect	
Molecular Formula:	CH <sub>3</sub> NO <sub>2</sub>	
Form (physical state):	Liquid	
Color:	N/A	
Boiling Point:	101.2 °C	

#### ➤ Potential Hazards / Toxicity

Potential Health Effects	
<b>Target Organs:</b>	Liver, Kidney, Central nervous system
<b>Inhalation:</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin:</b>	Harmful if absorbed through skin. May cause skin irritation.
<b>Eyes:</b>	May cause eye irritation.
<b>Ingestion:</b>	Harmful if swallowed.

➤ **Personal Protective Equipment (PPE)**

**Respiratory Protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Respirators should be used only under any of the following circumstances:

- As a last line of defense (i.e., after engineering and administrative controls have been exhausted).
- When Permissible Exposure Limit (PEL) has exceeded or when there is a possibility that PEL will be exceeded.
- Regulations require the use of a respirator.
- An employer requires the use of a respirator.
- There is potential for harmful exposure due to an atmospheric contaminant (in the absence of PEL)
- As PPE in the event of a chemical spill clean-up process

**Hand Protection**

Handle with gloves. Use proper glove removal technique to avoid skin contact with this product. Fluorinated rubber gloves are recommended.

**NOTE:** Consult with your preferred glove manufacturer to ensure that the gloves you plan on using are compatible with Nitromethane.

**Eye Protection**

Wear chemical splash goggles or a face shield to protect from splash hazards and chemical vapors.



### **Skin & Body Protection**

- Fire/flare resistant lab coat, preferably made from antistatic material
- Full-length pants
- Closed-toe rubber or leather shoes

### **Hygiene Measures**

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

### **Engineering Controls**

Operate using a chemical fume hood with adequate exhaust and capture filtration, as well as electrically grounded lines and equipment.

### ➤ **First Aid Procedures**

**If inhaled:** Move to fresh air. If the person is not breathing, give artificial respiration. Avoid mouth to mouth contact. If breathing is difficult, give oxygen.

**In case of skin contact:** Remove all contaminated clothing. Immediately (within seconds) flush affected area for FIFTEEN (15) minutes.

**In case of eye contact:** Remove any contact lenses. Use nearest emergency eyewash immediately for at least FIFTEEN (15) minutes.

**If swallowed:** DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth with water.

➤ **Special Storage & Handling Requirements**

**Storage**

- Ensure the container is tightly closed at all times.
- Keep in a cool, dry, well-ventilated area away from incompatible materials and conditions.
- Open containers must be carefully resealed and kept upright to prevent leakage.
- Store under inert gas.

**Handling**

- Where the material is being handled has an approved / certified emergency eyewash and safety shower.
- Ensure you are wearing the following minimum PPE: tightly fitting safety goggles and face shield, fire/flame resistant lab coat, full length pants, close-toe rubber or leather shoes, fluorinated rubber gloves.
- Emergency contact information must be readily posted. Easy access to a cellular phone or land line is readily available.
- Avoid contact with skin, eyes, and clothing.
- Avoid inhalation and ingestion.
- Use spark-proof tools and explosion-proof equipment.
- Ensure normal measures for preventative fire protection.
- Keep away from heat and other sources of ignition.
- Prevent buildup of electrostatic charge.

➤ **Spill and Accident Procedure**

**Personal precautions**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Do not attempt clean-up without minimum PPE. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**

Prevent further leakage or spillage – if safe to do so. Do not allow product to enter drains.

**Methods and materials for containment and clean-up**

Consider material compatibility prior to clean-up. Verify spill kit is available. Absorb spills with inert material.

1. Immediately assess amount spilled, follow posted ASU Emergency Response Guide procedures for hazardous materials incidents.
2. If a chemical exposure has occurred, a fellow worker shall call EH&S
3. Don't compatible gloves and other protective PPE if not already being worn.
4. Secure / restrict access to the area of the spill to prevent spread of the chemical.
5. Use the available spill kit to stop and contain the spill. Bag the collected material.
6. Label and tag as hazardous waste and submit a pick-up request to EH&S using EHS Assistant.

➤ **Decontamination / Waste Disposal Procedure**

Wearing proper PPE, decontaminate equipment using soap and water. Dispose of the used chemical and contaminated disposables as hazardous waste following the guidelines below.

**Label waste**

- Attach a completed ASU Hazardous Waste tag to all waste containers as soon as the first drop of waste is added to the container.

### **Store waste**

- Store hazardous waste in closed containers, in secondary containment and in a designated storage location.
- Double-bag dry waste using sealable transparent bags.
- Waste must be under the control of the person generating and disposing of it.

### **Dispose of waste**

- Dispose of regularly generated chemical waste within 90 days.
- Use EHS Assistant online hazardous waste pick-up request system.

### **➤ Documentation of Training**

- Prior to conducting any work with this material, Principal Investigator or designee must provide to his/her personnel specific to the hazards involved in working with this substance, work area decontamination, and emergency procedures.
- The Principal Investigator must provide his/her personnel with a copy of this SOP and a copy of the MSDS provided by the manufacturer.
- The Principal Investigator must ensure that his/her personnel have attended appropriate/required safety training or refresher training within the last one year.

**Annexure –VI**

**Acknowledgment of Onsite  
emergency plan submitted to  
district Collector**

o/c



**Date: 17/11/2018**

To,

**The District Collector  
District Collector Office,  
Near Hirakot Lake,  
Tahasil-Alibag, District-Raigad,**

**Subject: Submission of On-site and Off-site emergency plan for Aastrid Life Sciences Pvt. Ltd., Mahad**

Dear Sir,

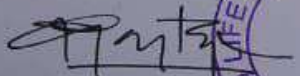
We have proposed new project for manufacturing of **Chemical Intermediates located at Plot No. FS-I & FS -II, Additional MIDC Mahad, Mahad, Dist: Raigad, Maharashtra.** We have applied for Environmental Clearance to the government authorities. As per the recommendation of the SEAC Committee, it is required to prepare and submit Disaster Management Plan (On-site and Off-site Emergency Preparedness plan) to your office. Hence we are submitting herewith the same.

Kindly receive and acknowledge the same.

Thanking You

Yours Faithfully,

**For Aastrid Life Sciences Pvt. Ltd.**

  
**Authorized Signature**



  
लिपिक  
नोंदणी शाखा  
नेल्हाधिकारी कार्यालय, रायगड  
अलिबाग.

**Aastrid Life Sciences Pvt. Ltd.**

Regd. Office: A-514, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400 701, INDIA  
Tel: +91 22 4112 2626. Fax: +91 22 2778 2437.  
E-mail: info@aastrid.com Internet: www.aastridlifesciences.com  
Factory: B-19, MIDC, Birvadi, Mahad, Dist. - Raigad - 402 302, Maharashtra, INDIA.  
Tel: +91-2145 232123 / 2145 232124  
CIN No: U24100MH2010PTC200641

# **Annexure –VII**

## **List of domestic/indigenous species of trees and Photograph's of the same**

**LIST OF DOMESTIC/INDIGENOUS SPECIES OF TREES**

<b>Serial No.</b>	<b>Name of the plant</b>	<b>Common Name</b>	<b>Quantity</b>
<b>1</b>	<i>Terminaliaarjuna</i>	Arjun	100
<b>2</b>	<i>Bauhinia racemosa</i>	Apta	100
<b>3</b>	<i>Ficusbenghalensis</i>	Vad	25
<b>4</b>	<i>Ficusreligiosa</i>	Pimpal	25
<b>5</b>	<i>Plumeria alba</i>	Chafa	150
<b>6</b>	<i>Azadirachtaindica</i>	Neem	150
<b>7</b>	<i>Teminaliatomentosa</i>	Ain	100
<b>8</b>	<i>Lagerstroemia speciosa</i>	Taman	150
<b>9</b>	<i>Ficuselastica</i>	Rubber	100
<b>10</b>	<i>Tectonagrandis</i>	Teak	150
<b>11</b>	<i>Cassia fistula</i>	Bahava	100
<b>12</b>	<i>Neolamarckiacadamba</i>	Kadamb	50









**Annexure –VIII**

**Acknowledgment Copy of CER**

**submitted to District Collector**

Date: 06.12.2018

Ref: ALSPL/18-19/108



The District Collector  
District Collector Office,  
Near Hira Kot Lake,  
Tahasil-Alibag, District-Raigad,

Mahad

Sub - Approval of Corporate Environment Responsibility (CER) For Aastrid Life Sciences Pvt. Ltd., Plot No. FS-I & FS-II, Additional MIDC Mahad, Dist: Raigad, Maharashtra

Ref. MoM of 154<sup>th</sup> SEAC-I meeting dated August 28, 2018.

Respected Sir,

We, Aastrid Life Sciences Pvt. Ltd., proposes manufacturing of **Chemical Intermediates** at Plot No. FS-I & FS-II, Additional MIDC Mahad, Dist: Raigad, Maharashtra

We have proposed new project which required prior environmental clearance from environment Department Maharashtra. As per the procedure of the environmental clearance we have received ToR in 154<sup>th</sup> SEAC-I meeting for preparation of EIA report for grant of environmental clearance. As per OM issued by MOEFCC dated 1.05.2018 we need submit the plan to utilize CER (Corporate Environmental Responsibility) along with timelines.

With reference to this kindly find the CER activities proposed by us attached as Annexure I. CER activities are based on actual need analysis study done by Functional Area Expert for Socio Economic Ms. Lataraje Bawadekar from NABET accredited consultant Goldfinch Engineering Systems Private Limited Thane.

Kindly give your approval for the proposed CER activities with your valuable suggestion as per the requirement of the district as early as possible.

Waiting for your reply.

Thanking you,

Yours Faithfully

For Aastrid Life Sciences Pvt. Ltd,

Authorized Signatory

Encl: Annexure - I (Proposed CER activities)



07/12/18

लिधीक

नोंदणी शाखा

अहधिकारी कार्यालय, राबगड  
अलिबाग.

Aastrid Life Sciences Pvt. Ltd.

Regd. Office: A-514, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400 701. INDIA

Tel: +91 22 4112 2626. Fax: + 91 22 2778 2437.

E-mail: info@aastrid.com Internet: www.aastridlifesciences.com

Factory: B-19, MIDC, Birwadi, Mahad, Dist. - Raigad - 402 302, Maharashtra, INDIA.

Tel: +91-2145 232123 / 2145 232124

**Annexure -IX**  
**Monitoring Reports**

QF/LA/10-A

Report Date: 20.10.2022

**Analysis Test Reports for Ambient Air Monitoring**

Name of the Industry :	M/S Astrid Life Science Pvt Ltd Plot No FS 1 & FS 2 Additional MIDC Mahad		
Date of Sampling :	10.10.2022	Sample Description :	Ambient
Date of Receipt of Sample :	15.10.2022	Sample Collected by :	Laboratory
Date of Analysis Started :	17.10.2022	Date of Analysis Completed :	20.10.2022
Sampling Plan :	QF/LA/01 B – 30.09.2022	Sampling Location :	Project Site Near Main Gate
Sampling Method :	Refer test method		

Sample Code No.	GFL/AA/22/10-19	Limits	Units	Test Method
Location	Project Site Near Main Gate			
Date/Duration	10.10.2022			
PM 10	56.36	100	µg/m <sup>3</sup>	IS 5182 (Part-23):2006, Reaffirmed-2017 & CPCB NAAQS Volume-I
PM 2.5	25.03	60	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
SO <sub>2</sub> conc.	20.15	80	µg/m <sup>3</sup>	IS 5182 (Part-2):2001, Reaffirmed-2017 & CPCB NAAQS Volume I
NO <sub>x</sub> conc.	48.48	80	µg/m <sup>3</sup>	IS 5182 (Part-06):2006, Reaffirmed-2017 & CPCB NAAQS Volume I
Ammonia	70.08	400	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
Carbon Monoxide	ND	04	mg/m <sup>3</sup>	IS 5182 (Part-10):1999 Reaffirmed-2014
Sampling carried out using HVS GOLDFINCH/INST-HVS/74 Calibrated on : 14.09.2022 Due on : 13.09.2023			Sampling carried out using ADS GOLDFINCH/INST-ADS/77 Calibrated on : 02.03.2022 Due on : 01.03.2023	

Remark- ND= Not Detected

----- End of Report -----

For Goldfinch Laboratory



Verified and Authorized by

**QF/LA/10-A**

**Report Date: 20.10.2022**

**Analysis Test Reports for Ambient Air Monitoring**

<b>Name of the Industry :</b>	<b>M/S Astrid Life Science Pvt Ltd Plot No FS 1 &amp; FS 2 Additional MIDC Mahad</b>		
<b>Date of Sampling :</b>	11.10.2022	<b>Sample Description :</b>	Ambient
<b>Date of Receipt of Sample :</b>	15.10.2022	<b>Sample Collected by :</b>	Laboratory
<b>Date of Analysis Started :</b>	17.10.2022	<b>Date of Analysis Completed :</b>	20.10.2022
<b>Sampling Plan :</b>	QF/LA/01 B – 30.09.2022	<b>Sampling Location :</b>	Barasgaon Village
<b>Sampling Method :</b>	Refer test method		

Sample Code No.	GFL/AA/22/10-20	Limits	Units	Test Method
<b>Location</b>	<b>Barasgaon Village</b>			
<b>Date/Duration</b>	11.10.2022			
<b>PM 10</b>	51.28	100	µg/m <sup>3</sup>	IS 5182 (Part-23):2006, Reaffirmed-2017 & CPCB NAAQS Volume-I
<b>PM 2.5</b>	23.11	60	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
<b>SO<sub>2</sub> conc.</b>	16.88	80	µg/m <sup>3</sup>	IS 5182 (Part-2):2001, Reaffirmed-2017 & CPCB NAAQS Volume I
<b>NO<sub>x</sub> conc.</b>	39.41	80	µg/m <sup>3</sup>	IS 5182 (Part-06):2006, Reaffirmed-2017 & CPCB NAAQS Volume I
<b>Ammonia</b>	33.95	400	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
<b>Carbon Monoxide</b>	ND	04	mg/m <sup>3</sup>	IS 5182 (Part-10):1999 Reaffirmed-2014
<b>Sampling carried out using HVS GOLDFINCH/INST-HVS/74 Calibrated on : 14.09.2022 Due on : 13.09.2023</b>			<b>Sampling carried out using ADS GOLDFINCH/INST-ADS/77 Calibrated on : 02.03.2022 Due on : 01.03.2023</b>	

Remark- ND= Not Detected

----- End of Report -----

**For Goldfinch Laboratory**



**Verified and Authorized by**



QF/LA/10-A

Report Date: 20.10.2022

**Analysis Test Reports for Ambient Air Monitoring**

Name of the Industry :	M/S Astrid Life Science Pvt Ltd Plot No FS 1 & FS 2 Additional MIDC Mahad		
Date of Sampling :	12.10.2022	Sample Description :	Ambient
Date of Receipt of Sample :	15.10.2022	Sample Collected by :	Laboratory
Date of Analysis Started :	17.10.2022	Date of Analysis Completed :	20.10.2022
Sampling Plan :	QF/LA/01 B – 30.09.2022	Sampling Location :	Gavadi Village
Sampling Method :	Refer test method		

Sample Code No.	GFL/AA/22/10-21	Limits	Units	Test Method
Location	Gavadi Village			
Date/Duration	12.10.2022			
PM 10	53.97	100	µg/m <sup>3</sup>	IS 5182 (Part-23):2006, Reaffirmed-2017 & CPCB NAAQS Volume-I
PM 2.5	22.97	60	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
SO <sub>2</sub> conc.	15.15	80	µg/m <sup>3</sup>	IS 5182 (Part-2):2001, Reaffirmed-2017 & CPCB NAAQS Volume I
NO <sub>x</sub> conc.	37.26	80	µg/m <sup>3</sup>	IS 5182 (Part-06):2006, Reaffirmed-2017 & CPCB NAAQS Volume I
Ammonia	35.2	400	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
Carbon Monoxide	ND	04	mg/m <sup>3</sup>	IS 5182 (Part-10):1999 Reaffirmed-2014
Sampling carried out using HVS GOLDFINCH/INST-HVS/74 Calibrated on : 14.09.2022 Due on : 13.09.2023			Sampling carried out using ADS GOLDFINCH/INST-ADS/77 Calibrated on : 02.03.2022 Due on : 01.03.2023	

Remark- ND= Not Detected

----- End of Report -----

For Goldfinch Laboratory



Verified and Authorized by

QF/LA/10-C

Report Date: 20.10.2022

**Analysis Test Report For Ambient Noise Monitoring**

Name of the Industry :	M/S Astrid Life Science Pvt Ltd Plot No FS 1 & FS 2 Additional MIDC Mahad		
Date of Sampling :	10.10.2022	Sample Description :	Noise
Date of Receipt of Sample :	15.10.2022	Sample Collected by :	Laboratory
Date of Analysis Started :	17.10.2022	Date of Analysis Completed :	20.10.2022
Sampling Plan :	QF/LA/01 B – 30.09.2022	Sampling Location :	
Sampling Method :	Refer test method		

		Ambient Noise Level		Test Method
Sample Code	Location	Day dB(A) Leq	Night dB(A) Leq	IS 9989-1981 Reaffirmed 2014
GFL/AN/22/10-23	Project Site Main Gate	62.2	59.6	
GFL/AN/22/10-24	Near MEE Plant	64.8	61.6	
	<b>M.P.C.B. Limit</b>	<b>75.0</b>	<b>70.0</b>	

Survey carried out using dB meter  
Sr. No. GOLDFINCH/INST- DB Meter /32  
Calibrated On: 01.11.2021  
Calibration due: 31.10.2022

----- End of Report -----

For Goldfinch Laboratory



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QF/LA/10-A

Report Date: 20.10.2022

**Analysis Test Reports for Ambient Air Monitoring**

Name of the Industry :	M/S Astrid Life Science Pvt Ltd Plot No FS 1 & FS 2 Additional MIDC Mahad		
Date of Sampling :	13.10.2022	Sample Description :	Ambient
Date of Receipt of Sample :	15.10.2022	Sample Collected by :	Laboratory
Date of Analysis Started :	17.10.2022	Date of Analysis Completed :	20.10.2022
Sampling Plan :	QF/LA/01 B – 30.09.2022	Sampling Location :	Savalewadi Village
Sampling Method :	Refer test method		

Sample Code No.	GFL/AA/22/10-22	Limits	Units	Test Method
Location	Savalewadi Village			
Date/Duration	13.10.2022			
PM 10	54.07	100	µg/m <sup>3</sup>	IS 5182 (Part-23):2006, Reaffirmed-2017 & CPCB NAAQS Volume-I
PM 2.5	23.46	60	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
SO <sub>2</sub> conc.	11.38	80	µg/m <sup>3</sup>	IS 5182 (Part-2):2001, Reaffirmed-2017 & CPCB NAAQS Volume I
NO <sub>x</sub> conc.	37.88	80	µg/m <sup>3</sup>	IS 5182 (Part-06):2006, Reaffirmed-2017 & CPCB NAAQS Volume I
Ammonia	21.35	400	µg/m <sup>3</sup>	CPCB NAAQS Volume-I
Carbon Monoxide	ND	04	mg/m <sup>3</sup>	IS 5182 (Part-10): 1999 Reaffirmed-2014
Sampling carried out using HVS GOLDFINCH/INST-HVS/74 Calibrated on : 14.09.2022 Due on : 13.09.2023			Sampling carried out using ADS GOLDFINCH/INST-ADS/77 Calibrated on : 02.03.2022 Due on : 01.03.2023	

Remark- ND= Not Detected

----- End of Report -----

For Goldfinch Laboratory



Verified and Authorized by

**QF/LA/09A**  
**Report Date: 21.10.2022**

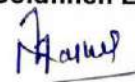
## Analysis Test Report

<b>Name &amp; Address of the Client :</b>	<b>M/s. Astrid Life Science Mahad</b>		
<b>Date of Sampling :</b>	14.10.2022	<b>Sample Description :</b>	Soil sample
<b>Date of Receipt of Sample :</b>	15.10.2022	<b>Sample Quantity :</b>	1000 gms
<b>Date of Analysis Started :</b>	15.10.2022	<b>Sample Collected by :</b>	Laboratory
<b>Date of Analysis Completed :</b>	21.10.2022	<b>Sample Container :</b>	Polythene bag
<b>Sampling Plan :</b>	QF/LA/01-B 29.09.2022	<b>Sampling Location :</b>	ETP
<b>Sampling Method :</b>	--		

Sr. No.	Parameters	Unit	Sample Code No GFL/EC-S/22/10/19	Test Method Used
1.	Bulk Density	kg/m <sup>3</sup>	1404.88	Weight by Volume
2.	Moisture content	%	16.80	IS:2720 (Part 02) : 1973
3.	Total Organic Carbon	%	1.25	IS:2720 (Part 22) : 1972
4.	Organic Matter	%	2.16	IS:2720 (Part 22) : 1972
5.	pH	--	7.38	IS:2720 (Part 26) : 1987
6.	Electrical Conductivity(1 :2 Soil: Water Extract)	uS/cm	713	IS:14767 - 2000
7.	Water Holding Capacity	%	49.98	IS 14765:2000 RA-2016
8.	Sodium as Na (Exchangeable)	mg/kg	17.63	Manual for soil testing, DAC- MOA,GOI
9.	Sodium as Na	mg/kg	102.16	USEPA 3050 B
10.	Potassium as K	mg/kg	7.54	USEPA 3050 B
11.	Calcium as Ca	mg/ kg	119.87	USEPA 3050 B
12.	Magnesium as mg	mg/ kg	47.95	USEPA 3050 B
13.	Sodium Absorption Ratio (SAR)	--	1.42	By Calculation
14.	Boron as B (Available)	mg/ kg	2.016	Manual for soil testing, DAC- MOA,GOI
15.	Cation Exchange Capacity	Meq/100g	24.6	IS 2720(Part-24)1976
16.	Total Nitrogen	mg/ kg	502.04	IS:14684-1999
17.	Available Phosphorus as P <sub>2</sub> O <sub>5</sub>	mg/ kg	46.41	Manual for soil testing,DAC- MOA,GOI

-----End of Report -----

For Goldfinch Laboratory



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Page 1of 2

**QF/LA/09A**  
**Report Date: 21.10.2022**

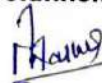
## Analysis Test Report

<b>Name &amp; Address of the Client :</b>	<b>M/s. Aastrid Life Science Mahad</b>		
<b>Date of Sampling :</b>	14.10.2022	<b>Sample Description :</b>	Soil sample
<b>Date of Receipt of Sample :</b>	15.10.2022	<b>Sample Quantity :</b>	1000 gms
<b>Date of Analysis Started :</b>	15.10.2022	<b>Sample Collected by :</b>	Laboratory
<b>Date of Analysis Completed :</b>	21.10.2022	<b>Sample Container :</b>	Polythene bag
<b>Sampling Plan :</b>	QF/LA/01-B 29.09.2022	<b>Sampling Location :</b>	ETP
<b>Sampling Method :</b>	--		

Sr. No.	Parameters	Unit	Sample Code No GFL/EC-S/22/10/19	Test Method Used
18	Available Potassium as K <sub>2</sub> O	mg/kg	183	Manual for soil testing, DAC-MOA,GOI
19	Total Phosphorous as P	mg/kg	45.06	Manual for soil testing, DAC-MOA,GOI
20	Copper as Cu	mg/kg	51.153	USEPA 3050 B
21	Iron as Fe	mg/kg	27244.49	USEPA 3050 B
22	Manganese as Mn	mg/kg	739.21	USEPA 3050 B
23	Available Manganese as Mn	mg/kg	17.487	Manual for soil testing, DAC-MOA,GOI
24	Available Iron as Fe	mg/kg	62.390	Manual for soil testing, DAC-MOA,GOI
25	Available copper as Cu	mg/kg	3.691	Manual for soil testing ,DAC-MOA,GOI
26	Available Zinc as Zn	mg/kg	1.722	Manual for soil testing, DAC-MOA,GOI

-----End of Report -----

For Goldfinch Laboratory



Verified and Authorized by

Page 2 of 2

## **Annexure -X**

### **Photograph's of the Adequate safety measures**

**AASTRID LIFE SCIENCES PVT LTD (UNIT-2)**  
**FS, FS2, FIVE STAR MIDC MAHAD,**  
**TAL-MAHAD, DIST-RAIGAD**

**Smoke Detector**

Smoke Detector



**AASTRID LIFE SCIENCES PVT LTD (UNIT-2)**  
**FS, FS2, FIVE STAR MIDC MAHAD,**  
**TAL-MAHAD, DIST-RAIGAD**

**Beam Detector**



**Beam Detector**





# AASTRID LIFE SCIENCES PVT LTD (UNIT-2)

FS, FS2, FIVE STAR MIDC MAHAD,  
TAL-MAHAD, DIST-RAIGAD

FIRE HYDRANT WATER STORAGE 350 KL

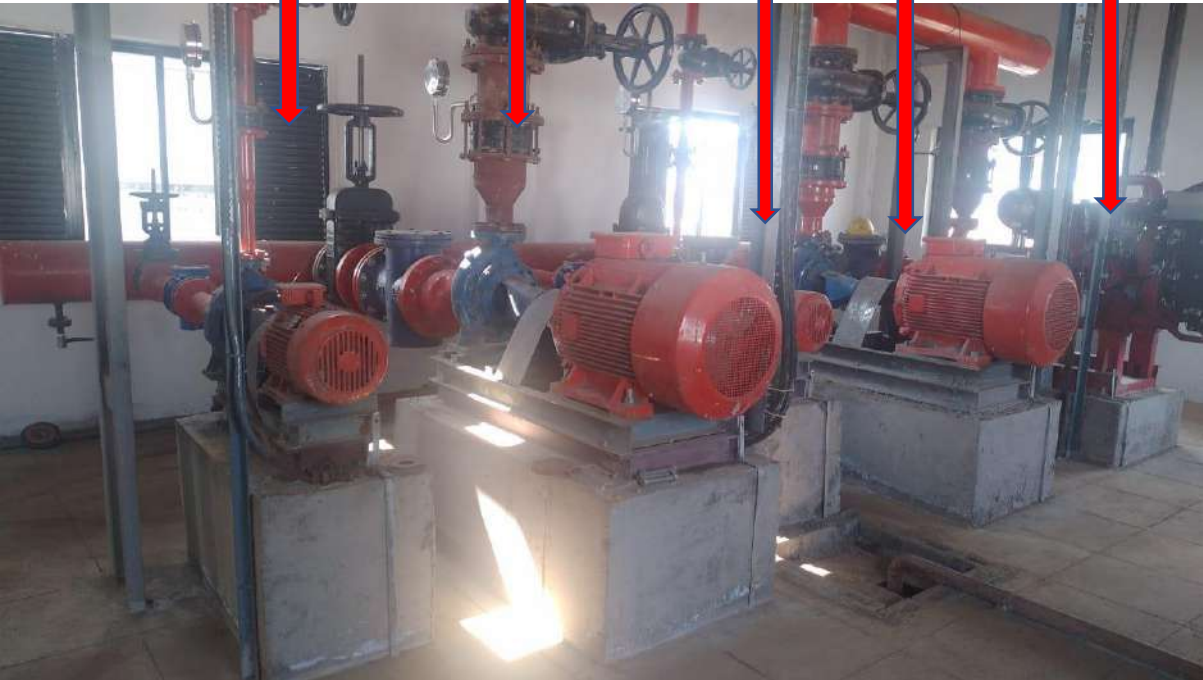


FIRE HYDRANT PUMP STATION

Sprinkler Jockey pump Sprinkler Main pump

Hydrant Main Pump Hydrant Main Pump

Hydrant diesel pump



**AASTRID LIFE SCIENCES PVT LTD (UNIT-2)**  
**FS, FS2, FIVE STAR MIDC MAHAD,**  
**TAL-MAHAD, DIST-RAIGAD**

**Fire Hydrant & sprinkler line**



**Fire Hydrant box on each floor**



**Sprinkler System**



**AASTRID LIFE SCIENCES PVT LTD (UNIT-2)**  
**FS, FS2, FIVE STAR MIDC MAHAD,**  
**TAL-MAHAD, DIST-RAIGAD**

**Manual call Pont & Hooter**



## **Annexure –XI**

# **Valid membership letter of Mumbai Waste Management Limited**



Towards sustainable growth

# Mumbai Waste Management Limited

## Certificate

AASTRID LIFE SCIENCES PVT. LTD.

is a registered member of  
CHW-TSDF at MIDC, Talaja  
for safe & secure disposal of  
Hazardous Waste.

Membership no.: MWML - HzW ...MHD-4423...

This Certificate is valid up to

...31<sup>ST</sup> MARCH 2022...

Onkar A. Kulkarni  
Manager - MBD

Somnath Malgar  
Director

An ISO 9001:2015, ISO 14001 : 2015 & ISO 45001 : 2018 Certified Company

MWML Laboratory is accredited by NABL and Approved by MoEF

## **Annexure -XII**

**Mock Drill report along  
with photographs**

**AASTRID LIFESCIENCES PVT LTD**  
**FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

**MOCK DRILL REPORT**

Emergency scenario	:	Fire at Production Ground Floor
Date of Mock Drill	:	27.05.2022
Time of Mock Drill	:	15.52 Hrs.
Response Time	:	15.52 hr to 16.11 hr (19.00 minutes)

**Description of Scenario:**

On 27<sup>th</sup> May,2022 in second shift methanol dispensing activity was carried from drum to carboys, while siphoning the material from drum to carboy, methanol caught fire due to static charge and contract worker Mr. Sunil Gautam got superficial burn injury to his abdomen.

<b>Sr. No</b>	<b>Name of Observer</b>	<b>Location</b>
01	Mr. Sanjay Bhosale (MARG Member)	Assembly point 1
02	Mr. Shekhar Jadhav (PD Lab)	Incident point
03	Mr. Aditya Shinde (PPC)	Corridor between incident spot to OHC
04	Mr. Dinesh Mahadik (EHS Dept)	Assembly point 2

**Following members participated in Mock Drill:**

1. Mr. Prasad Gaikar: Site main Controller
2. Mr. Imran Kuldunkar: Incident Controller
3. Mr. Ganesh Bamane: In charge of Assembly point 1
4. Mr. Ramesh Palkar: Supporting to Incident Controller
5. Mr. Tejas Pawar: First Observer
6. Mr. Arjun Gautam: Injured worker
7. Mr. Tejas Pawar: Messenger
8. Mr. Koreshu Chaudhari: Electrician
9. Mr. Pravin Desai: First Aider
10. Mr. Nilkantheswar Jagtap: First Aider
11. Mr. Suraj Tembe: Fire fighter
12. Mr. Akshay Dalvi: Fire Fighter
13. Mr. Abhishek Kadam: Fire fighter
14. Mr. Anil Pawar: Ambulance Driver
15. Mr. Santosh More: Security In charge

**AASTRID LIFESCIENCES PVT LTD**  
**FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

16. Mr. Ramesh Palkar: Shift In charge

17. Mr. Kalpesh Kalgude: Blown Siren

**OBSERVATIONS:**

Sr. No.	Response Time Hrs	Activity
1	15:52:00	First Observer (Ramesh Palkar) shouted the fire.... Fire.... during dispensing material at production block Gr floor from drum to carboys and Mr. Arjun Gautam (contract worker) get injured.
2	15:52:30	Mr. Ramesh Palkar & arjun Gautam call for help loudly.
3	15:53:00	Mr. Imran Kuldunkar production in charge (sitting in first floor cabin) rush towards site.
4	15:53:30	Mr. Imran Kuldunkar understand the situation call for help to remove the casualty from incident spot.
5	15:54:00	Simultaneously Mr. Imran Kuldunkar call to Site main controller Mr. Prasad Gaikar & ask to Mr. Kalpesh Kalgude to blown emergency siren
6	15:56: 15	Incident controller reach at incident spot & Site Main Controller also reaches at emergency control center (i.e., Main gate (Material Gate) Security cabin).
7	15:56:30	SMC informed to Communication team to arrange and send the vehicle/ambulance along with first aid team
8	15:56:30	Simultaneously SMC instructed to security to gather all worker at assembly point
9	15:57:00	First aider arrived at incident location and pick up the causality.
	15:58:00	Casualty send occupational health center for first aid.
10	16:00:00	Casualty send to nearby village Birwadi hospital for medical treatment.
11	16:01:10	Incident controller communicate to Site Main Controller about situation & help.
12	15:57:30	SMC send fire fighter squad at incident spot.
13	15:58:00	Fire fighter squad rush towards incident spot along with fire hydrant hoses, electrician also taken charge of fire engine simultaneously.



**AASTRID LIFESCIENCES PVT LTD**  
**FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

14	16:01:00	Extinguished fire with help of fire hydrant hose.
15	16:02:00	Incident controller informed to Site Main Controller, situation under control.
16	16:02:30	Assembly point in charge taken head count of all worker along with all participant.
17	16:10:00	Company vehicle (i.e., Ambulance arrival at factory from nearby Hospital). Response time 10 minutes
18	16:11:00	Site main Controller inform to security in charge to blow all clear siren.

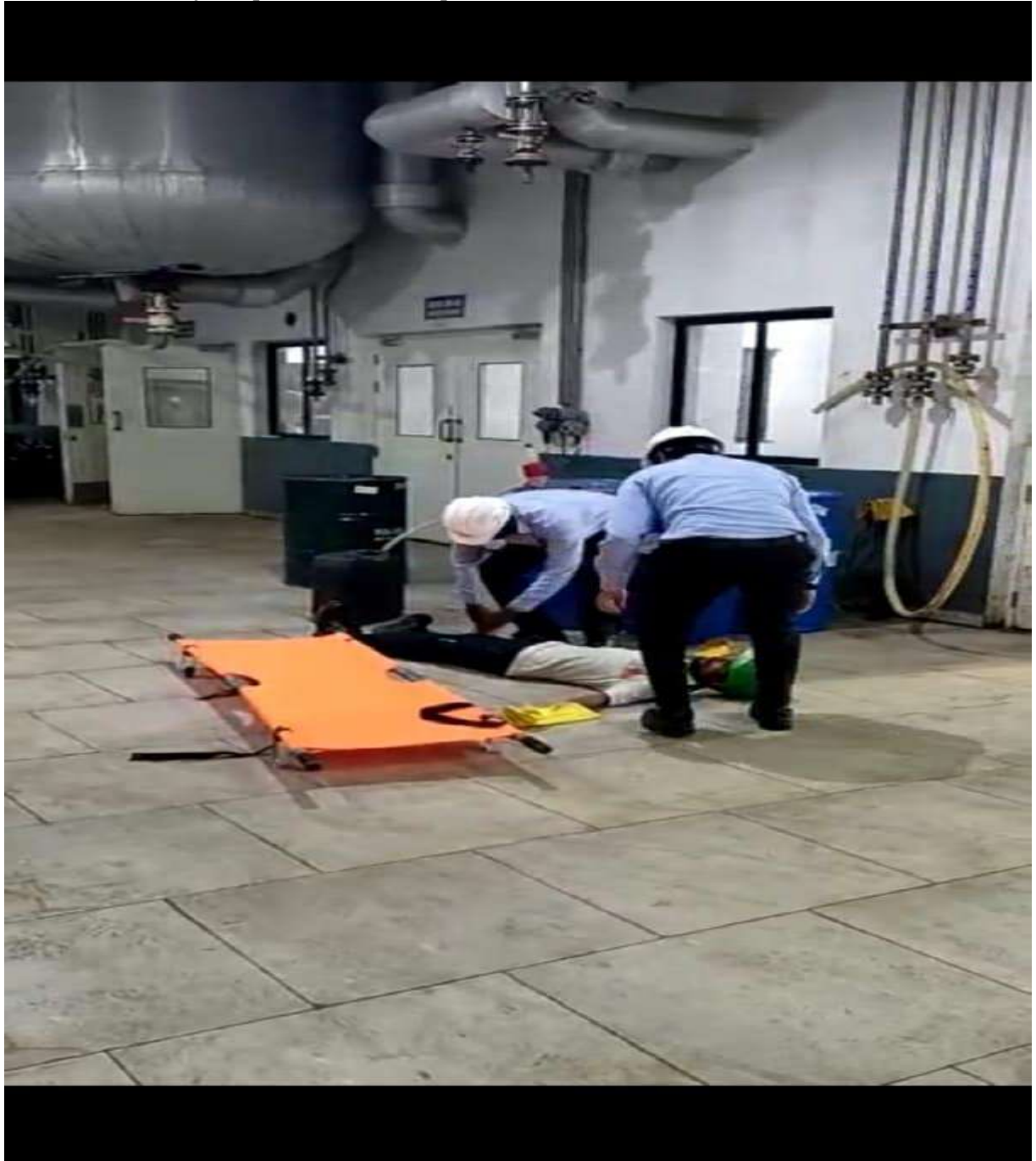
**Area for improvement:**

Sr.	Observation	Action Plan	Responsibility	Target Date
1.	Emergency siren not audible up to assembly point 2.	To be install additional hooter, siren at assembly point 1.	EHS, Maint, HR/Admin	15.06.2022
2.	Casual approach of some worker while arrival at assembly point.	To be train to worker.	EHS & respective dept.	15.06.2022
3.	During casualty taken in OHC, difficulty to open door while charring casualty on streture.	To be fit door stopper.	EHS dept	Immediate
4	Fire hydrant hose entangled	Needs more training to fire fighter	EHS Dept	15.06.2022
5	Many workers not carried their helmet, while rush towards assembly point.	Needs training	EHS Dept	30.06.2022

**EHS Incharge**

**AATRID LIFESCIENCES PVT LTD**  
**FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

**1.Rehabilitation to injured person at incident spot**



**AASTRID LIFESCIENCES PVT LTD**  
**FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

**2.Casulty taken away from incident spot.**



**3.First aid treatment in OHC.**



**AATRID LIFESCIENCES PVT LTD**  
**FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

**4.First fire hydrant shower on fire spot**



**5.Worker's rush towards assembly point.**



**AASTRID LIFESCIENCES PVT LTD  
FS1, FS2 ADDITIONAL MIDC, MAHAD, TAL- MAHAD, DIST-RAIGAD**

**6.All employees gathers at assembly point.**



**7.Seniors addressing to all employees.**



**Annexure -XIII**

**Environmental  
management cell with  
responsibilities of each  
personnel**

Sr. No	Name	Designation	Responsibility
1.	Rajendra Gendev Newase	Dy. Manager EHS	<ul style="list-style-type: none"> <li>• Monitoring of the operations, maintenance and trouble shooting of Effluent Treatment Plant.</li> <li>• Overall operations and supervision in the functioning of Effluent treatment plant.</li> <li>• Liaisoning with Government agencies and statutory bodies with respect to water and air pollution, if necessary.</li> <li>• Monitoring of required quality parameters of effluent discharge and provide help wherever required.</li> <li>• Maintaining the cleanliness of the Effluent treatment plant.</li> <li>• Fully responsible for the operation of Effluent treatment plant &amp; laboratory.</li> <li>• Manpower planning for Effluent treatment plant.</li> <li>• Ensure maintenance and timely calibration of all Instruments in ETP Laboratory as per laid down procedures.</li> <li>• Maintaining and monitoring documents of Effluent treatment plant.</li> <li>• Ensure strict compliance to GMP guidelines in all areas of EHS.</li> <li>• Coordination with Maintenance dept. in case of any breakdown.</li> <li>• Conduct job related training to subordinates and ensuring the documentation.</li> <li>• Write the SOPs and GMP related documents.</li> <li>• Ensuring the functioning of safety appliances by carrying out trials of such equipment's.</li> </ul>

			<ul style="list-style-type: none"><li>• Organizing training programmes on safety and first aid for the employees.</li><li>• Records of Hazardous waste disposals</li></ul>
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**Annexure -XIV**

**Environmental Clearance  
Letter on Company  
Website**



CPHI India



**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

Environment Department,  
State No. 217, 2nd Floor,  
Bhandarkar, Mumbai  
Mumbai - 400 004,  
Date: May 7, 2019

To:  
**Aastrid Life Sciences Pvt. Ltd.**  
at Plot No. 15-1 & 15-2, Industrial Estate, Rajgad,  
Mumbai, Maharashtra.

Subject: **Environment Impact Assessment for Aastrid Life Sciences Pvt. Ltd., at Plot No. 15-1 & 15-2, Industrial Estate, Rajgad, Mumbai, Maharashtra.**

This has reference to your representation on the above mentioned subject. The proposal was reviewed in per the EIA Report dated 10/01/2019, by the State Level Environment Impact Assessment Authority, Mumbai on the basis of the study and assessment of the project for your representative clients in EIAIA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 100th meeting held on 07/05/2019.

It is approved the project/proposal by the State Level Environment Impact Assessment Authority on the following conditions:-

1. Name of Project	Manufacturing of Intermediate and Specialty Chemicals at Plot No. 15-1 & 15-2, Industrial Estate, Rajgad, Mumbai, Maharashtra.
2. Stage of Realization	Proposed
3. Name of Project Proponent	Aastrid Life Sciences Pvt. Ltd.
4. Name of Consultant	SGE Global Consulting Services Private Limited
5. Type of project	Industrial/Manufacturing of Intermediate and Specialty Chemicals
6. New project/extension to existing project/alteration/modification of an existing project	New
7. If extension/modification/alteration/modification of an existing project, how have you observed the existing project?	Not Applicable
8. Location of the project	Plot No. 15-1 & 15-2, Industrial Estate, Rajgad, Mumbai
9. State	Maharashtra
10. District	Thane
11. Pin Code	401 201
12. Name of the project	Manufacturing of Intermediate and Specialty Chemicals
13. Name of the project	Manufacturing of Intermediate and Specialty Chemicals
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Signature of the Member Secretary

Page 2 of 18



## CERTIFICATE

**Current Good Manufacturing Practices**  
Based on ISO 9001:2015

In accordance with ISO 9001:2015 provisions, it is hereby certified that

**AASTRID LIFE SCIENCES PVT. LTD.**  
B-18, MIDC, Bimandi, Mahad,  
Dist - Raigad - 402 302, Maharashtra,  
India



Quality Management System in place with the above described for Manufacturing process

**Manufacture of Intermediates and Specialty Chemicals**

Certificate Number: **000001100001**  
Valid from: **15/05/2019**  
Valid until: **15/05/2021**



TUV India Certification Center  
Mumbai 400 004, India

The certificate was prepared in accordance with the ISO 9001:2015 auditing and certification procedures. The Product & Service description is as follows:  
Product: **Manufacture of Intermediates and Specialty Chemicals**  
For more info visit: [www.tuvindia.com](http://www.tuvindia.com)



## CERTIFICATE

**Management system as per ISO 9001 : 2015**

In accordance with ISO 9001:2015 provisions, it is hereby certified that

**AASTRID LIFE SCIENCES PVT. LTD.**  
OFFICE: A-614, TIC Industrial Area  
MDC Maraga, Navi Mumbai - 400 701,  
WORKS: B-18, MIDC, Bimandi, Mahad,  
Dist. Raigad - 402 302, Maharashtra,  
India



Quality Management System in place with the above described for the following scope

**Development and Manufacture of Intermediates and Specialty Chemicals**

Certificate Number: **000001100001**  
Valid from: **15/05/2019**  
Valid until: **15/05/2021**



TUV Nord Certification Center  
Mumbai 400 004, India

The certificate was prepared in accordance with the ISO 9001:2015 auditing and certification procedures. The Product & Service description is as follows:  
Product: **Development and Manufacture of Intermediates and Specialty Chemicals**  
For more info visit: [www.tuvnord.com](http://www.tuvnord.com)




## **Annexure -XV**

### **NOC for water from MIDC**



No./DE(M)/IFMS/ D-14765 / of 2018  
Office of the Deputy Engineer,  
MIDC, Mahad Sub-Division Mahad  
Date :-21/9/2018.

To ,  
Aastrid Life Science Pvt Ltd  
B-19,Midc Mahad

Sub : Regarding NOC for water connection

Ref : 1) your letter dated 19/9/2018

Dear sir

With reference to above subject this office is informed that  
this office has No Objection to provide required water connection as per reference  
letter i.e. 617 Cum/per day for plot no FS-1 & FS-2.

Thanking you

Yours faithfully,

*S. S. Gitte*  
*21/9/2018*  
(S. S. Gitte )  
Deputy Engineer,  
MIDC, Mahad Sub-Division , Mahad.

Copy submitted to Executive Engineer, MIDC, Mahad Division (C), Mahad for favour  
of information please .

## **Annexure -XVI**

# **Environmental Policy duly approved by the Board Resolution**



**EXTRACT OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF AASTRID LIFE SCIENCES PVT. LTD.. AT THE BOARD MEETING HELD ON NOVEMBER 11, 2020 AT THE REGISTERED OFFICE OF THE COMPANY.**

Re.: Establishment of the system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders and establishing of the Environmental Management Cell

The Chairman apprised the Board of Directors, about the requirement to establish a system of infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders which is required to be submitted as a part of the six monthly compliance report to the relevant statutory / regulatory agencies viz, Regional Office of CPCB, Regional Office of MoEF & CC, Sub Regional Office of MPCB and Regional Office of MPCB.

After discussion the following resolution was passed.

“RESOLVED THAT the approval of the Board of Directors of the Company be and is hereby granted to establish a system of infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders as per the applicable provisions of the Environmental Laws for monitoring the environmental non-compliances/ deviations/ infringements and establishing of the reporting mechanism for the company’s unit at Plot No. FS-1 & 2 . Additional MIDC, Mahad, District Raigad.

“RESOLVED further that the approval of the Board of Directors of the Company be and is hereby granted to establish an Environmental Management Cell to continuously check and detect the infringement /deviation /violation of the environmental conditions / norms and to authorize **Colonel Digvijay J. Katkar** on behalf of the company to take appropriate steps / preventive and corrective actions / decisions in case any such violations / infringements / deviations of the environmental conditions / norms is detected and to report such incidences to the Board of Directors immediately.

RESOLVED FURTHER THAT if required a certified true copy/extract of the said resolution be furnished to the relevant statutory authority under the signature of any Director or Company Secretary of the Company.

For Aastrid Life Sciences Pvt. Ltd.

  
**Ravindra Jagtap**  
Managing Director



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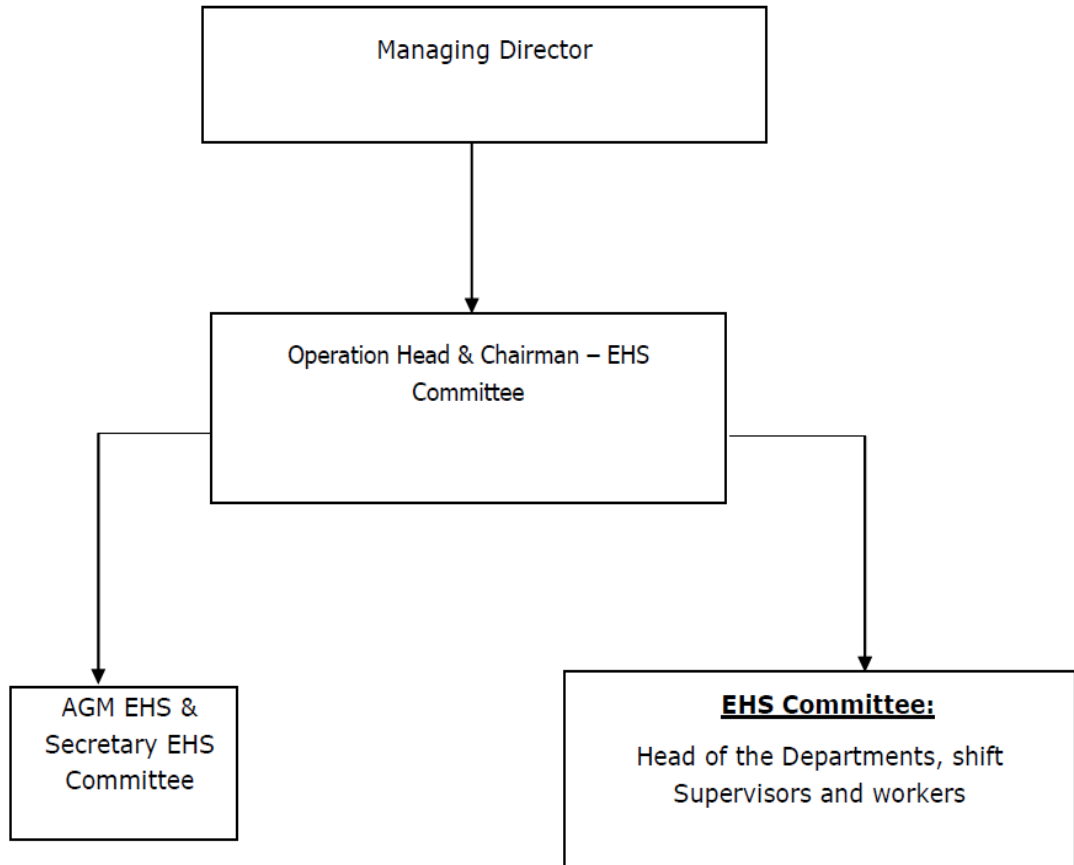
**Aastrid Life Sciences Pvt. Ltd.**

Regd. Office: A-593, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400 701 INDIA  
Tel.: +91 22 4007 2626 | Email: info@aastrid.com | Internet: www.aastridlifesciences.com  
Factory: B-19, MIDC, Birwadi, Mahad, Dist. - Raigad - 402 302 Maharashtra INDIA  
Tel.: +91 2145 232 123 / 2145 232 124 | CIN # U24100MH2010PTC200641

**Annexure -XVII**

**Environmental  
Management Cell**

### Hierarchy of Environment Management Cell





## **Annexure -XVIII**

# **Photographs of the Solar System**

**AASTRID LIFE SCIENCES PVT LTD**  
**FS1, FS2, FIVE STAR MIDC MAHAD, TAL- MAHAD, DIST-RAIGAD**

GENERATOR



SOLAR ENERGY/SOLAR PANNEL



# **Annexure -XIX**

## **EHS Policy**

## *ENVIRONMENT, HEALTH AND SAFETY POLICY*

*Aastrid Life Sciences Pvt. Ltd, are committed to proactively manage and achieve in excellence in Environment, Health and Safety Management system which includes:*

- *Continual improvement OF EHS toward Zero incidents and the treating industrial effluents & gases as per norms.*
- *Optimizing resources utilization for protecting Energy and water conservation and reduction of wastes & emission.*
- *Ensure health and safety standards that create a safe and healthy workplace by working continuously to reduce hazards and risk to prevent work place injuries and illnesses.*
- *To communicate EHS policy to all our employees for successful implementation of EHS standard and procedures.*
- *Visible management commitment, effective communication and training to ensure environmental protection, as well as the safety and health of our employees and community.*
- *Identifying EHS hazards, risks, aspects & impacts through periodic assessments, audits and implement necessary control measures.*
- *Maintaining and continually improving EHS systems at all our manufacturing sites through the implementation of latest technology and EHS best practices.*
- *Complying with the applicable statutory, regulatory & other requirements with respect to Environment, Health and Safety (EHS).*

*Mr. Ravindra Jagtap  
Managing Director  
Aastrid Life Sciences Pvt. Ltd*

**EHS policy Ver. No.01  
Effective date: 22/09/2021**