

EC No. F. No. J-11011/286/2018-IA II(I)
 EC Identification No. EC22A021GJ120716

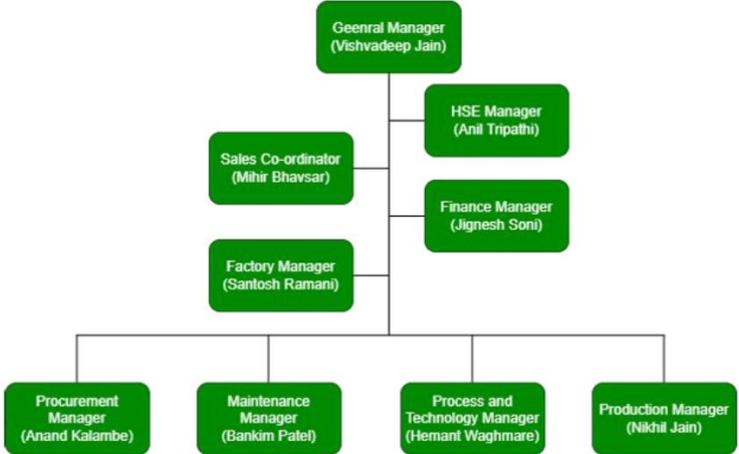
Period: April 2023 to September 2023

Project: Proposed expansion of Monochloro Acetic Acid (MCA) Manufacturing Unit by increase in production capacity from 32,000 TPA to 48,000 TPA and co-product (Hcl) from 41,600 TPA to 62,400 TPA and HE-Di-Chloro and Tri-chloro acetic acid from 448 TPA to 672.00 TPA

No.	Condition	Compliance Status
A	Specific Conditions:	
i	<p>The PP shall develop Greenbelt over an area of at least 647 m² by planting 140 trees inside the plant area and another 266 trees in close vicinity of plant. The saplings selected for the plantation should be of sufficient height, preferably 6-ft (about 2m). The budget earmarked for the plantation shall be ₹ 2 Lakh and shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of the expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>Complied</p> <p>Anaven has already developed greenbelt in an area of 9.8% i.e. 647 sqm inside the plant area. Additional 24% i.e. 1594 sqm greenbelt is developed at Atul village as suggested.</p> <p>Photographs are given below:</p> 
ii	<p>A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. The PP shall engage General manager- HSE manager- Maintenance manager. In addition, one safety & health officer as per the qualification</p>	<p>Noted and Compliance assured.</p> <p>We have EHS department having separate team of qualified persons having specialization in Environmental engineering and one safety & health officer as per the qualification given in Factories Act, 1948.</p> <p>Details of Environment management cell is as below:</p>

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	<p>given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>																													
<p>iii</p>	<p>The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is ₹ 23.79 Lakh (Capital cost) and ₹ 7.29 Crore (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>Complied. All the environmental protection measures and safeguards proposed in the documents submitted to the ministry are in place. The recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project are being implemented and listed below:</p> <p>❖ In-built mitigation measures:</p> <ul style="list-style-type: none"> Total 06 vents (including 02 storage tanks vents of HCl and Acetic acid) are treated through scrubbers with appropriate scrubbing media and then released to safe locations. Also, all scrubbers are suitably designed. Details are given below: <table border="1" data-bbox="699 1361 1533 1805"> <thead> <tr> <th>Sr. No</th> <th>Vent (Stack) Attached to</th> <th>Pollutants</th> <th>APCM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chlorinator</td> <td>Cl₂, HCl</td> <td>Water and Caustic Scrubber</td> </tr> <tr> <td>2</td> <td>Hydrogenator</td> <td>Hydrogen+ HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>3</td> <td>Vacuum pump</td> <td>HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>4</td> <td>Flakers</td> <td>Traces of HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>5</td> <td>HCl storage tank</td> <td>Traces of HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>6</td> <td>Acetic acid storage tank</td> <td>Traces of Acetic acid</td> <td>Water Scrubber</td> </tr> </tbody> </table> <p>❖ General Mitigation Measures for Air Quality Control during Operation Phase:</p> <ul style="list-style-type: none"> Adequate stack height is provided to flue gas stack. 	Sr. No	Vent (Stack) Attached to	Pollutants	APCM	1	Chlorinator	Cl ₂ , HCl	Water and Caustic Scrubber	2	Hydrogenator	Hydrogen+ HCl	Water Scrubber	3	Vacuum pump	HCl	Water Scrubber	4	Flakers	Traces of HCl	Water Scrubber	5	HCl storage tank	Traces of HCl	Water Scrubber	6	Acetic acid storage tank	Traces of Acetic acid	Water Scrubber
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- Suitable air pollution control equipment is installed.
- Details of Stack, Height and APCM are given in the table below.

Flue gas stack	Type of Fuel	Stack Height
DG set (Capacity 500 KVA)	HSD	10 m

Process Stack:

Sr. No	Stack Attached to	Stack ht. m	Pollutants	APCM
1	Chlorinator	35	Cl ₂ , HCl	Water and Caustic Scrubber
2	Hydrogenator	35	Hydrogen + HCl	Water Scrubber
3	Vacuum pump	38	HCl	Water Scrubber
4	Flakers	45	Traces of HCl	Water Scrubber
5	HCl storage tank	18	Traces of HCl	Water Scrubber
6	Acetic acid storage tank	15	Traces of Acetic acid	Water Scrubber

Results of flue gas and process gas monitoring are well within the prescribed limit and attached as **Annexure 1**.

❖ **Mitigation measures for water and wastewater:**

- Unit is ZLD. The effluent generation from the unit is treated in ETP followed by RO and MEE.
- Online flow meters are installed to measure effluent at ETP.



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		<ul style="list-style-type: none"> • The total freshwater consumption details for the report period is given in below table: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 20%;">Month</th> <th style="width: 25%;">Water Consumption KL/M</th> <th style="width: 50%;">Avg. KLD</th> </tr> </thead> <tbody> <tr><td>1</td><td>April 2023</td><td>4832</td><td>161.06</td></tr> <tr><td>2</td><td>May 2023</td><td>5069</td><td>163.51</td></tr> <tr><td>3</td><td>June 2023</td><td>4865</td><td>162.16</td></tr> <tr><td>4</td><td>July 2023</td><td>4996</td><td>161.16</td></tr> <tr><td>5</td><td>August 2023</td><td>4954</td><td>159.8</td></tr> <tr><td>6</td><td>September 2023</td><td>4774</td><td>159.13</td></tr> </tbody> </table> • The total Wastewater generation details for the report period is given in below table: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 20%;">Month</th> <th style="width: 25%;">Wastewater Generation KL/M</th> <th style="width: 50%;">Avg. KLD</th> </tr> </thead> <tbody> <tr><td>1</td><td>April 2023</td><td>4943</td><td>164.7</td></tr> <tr><td>2</td><td>May 2023</td><td>2285</td><td>73.7</td></tr> <tr><td>3</td><td>June 2023</td><td>5959</td><td>198.6</td></tr> <tr><td>4</td><td>July 2023</td><td>5295</td><td>170.8</td></tr> <tr><td>5</td><td>August 2023</td><td>4608</td><td>148.6</td></tr> <tr><td>6</td><td>September 2023</td><td>5154</td><td>171.8</td></tr> </tbody> </table> ❖ Mitigation measures for Hazardous waste: <p style="margin-left: 20px;">Hazardous waste generated is collected in jumbo bags and kept at a separate storage area. It is disposed as per Authorization.</p> 	Sr. No.	Month	Water Consumption KL/M	Avg. KLD	1	April 2023	4832	161.06	2	May 2023	5069	163.51	3	June 2023	4865	162.16	4	July 2023	4996	161.16	5	August 2023	4954	159.8	6	September 2023	4774	159.13	Sr. No.	Month	Wastewater Generation KL/M	Avg. KLD	1	April 2023	4943	164.7	2	May 2023	2285	73.7	3	June 2023	5959	198.6	4	July 2023	5295	170.8	5	August 2023	4608	148.6	6	September 2023	5154	171.8
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- Details of Hazardous waste generation and disposal given in below table

1) ETP sludge:

Sr. No.	Month	Generation (MT)	Disposal (MT)	Disposal mode
1	April 2023	4	4	Atul TSDF
2	May 2023	1	1	
3	June 2023	4	4	
4	July 2023	2	Haz waste storage during monsoon months as landfill is covered with tarpaulin	
5	August 2023	2		
6	September 2023	4		

2) MEE salt:

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Sr. No.	Month	Generation (MT)	Disposal (MT)	Disposal mode
1	April 2023	3	3	Atul TSDf
2	May 2023	1	1	
3	June 2023	2	2	
4	July 2023	2	Haz waste storage during monsoon months as landfill is covered with tarpaulin	
5	August 2023	4		
6	September 2023	5		

Internal waste transfer slip is attached for ready reference:


ATUL LIMITED

HAZARDOUS WASTE TRANSFER SLIP
 (To be used for internal transfer of Hazardous Waste only)

1. Originating Plant : <i>MCA</i>	2. Div : <i>Manufacturing</i>
3. Site : <i>East / West / North</i>	
4. Date : <i>12.05.2023</i>	
5. Name of Waste : <i>WWT sludge</i>	
6. Quantity : <i>943 Kgs.</i>	
7. Packing : <i>Drum / Bag / Loose</i>	
8. To Facility : <i>TSDf / Incinerator</i>	
9. Waste Description : <i>Solid / Semisolid / Sludge / Tarry / Slurry / Liquid</i>	
10. Vehicle No. : <i>GSI 11 779 L</i>	

Sender's Signature :	
<i>(Plant In Charge)</i>	<i>(M.Mfg.)</i>
Receiver's Signature :	
<i>(Facility In Charge)</i>	Date : <i>12/05/2023</i>

Copy Status : Pink-Original, Light Blue- First copy

Item Code No. 3013047009



Though HCl is given as co-product in EC, GPCB has given the same as Haz waste. Hence currently we are disposing HCl as

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		<p>per Authorization condition through online manifest system.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 15%;">Month</th> <th style="width: 15%;">Hazardous waste Generation</th> <th style="width: 15%;">Hazardous waste Disposal</th> <th style="width: 50%;">Disposal mode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>April 2023</td> <td>2103.4</td> <td>2103.4</td> <td rowspan="6" style="vertical-align: middle;">As per authorization by GPCB</td> </tr> <tr> <td>2</td> <td>May 2023</td> <td>339.06</td> <td>339.06</td> </tr> <tr> <td>3</td> <td>June 2023</td> <td>1948.32</td> <td>1948.32</td> </tr> <tr> <td>4</td> <td>July 2023</td> <td>1173.29</td> <td>1173.29</td> </tr> <tr> <td>5</td> <td>August 2023</td> <td>1807.14</td> <td>1807.14</td> </tr> <tr> <td>6</td> <td>September 2023</td> <td>1687.48</td> <td>1687.48</td> </tr> </tbody> </table> <p>❖ Greenbelt:</p> <ul style="list-style-type: none"> Anaven has already developed greenbelt in an area of 9.8% i.e. 647 sqm out of total area of the project. An additional 24% i.e. 1594 sqm greenbelt is developed at Atul village as mentioned in compliance of condition i. 	Sr. No.	Month	Hazardous waste Generation	Hazardous waste Disposal	Disposal mode	1	April 2023	2103.4	2103.4	As per authorization by GPCB	2	May 2023	339.06	339.06	3	June 2023	1948.32	1948.32	4	July 2023	1173.29	1173.29	5	August 2023	1807.14	1807.14	6	September 2023	1687.48	1687.48
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iv	As committed by the PP, Industry shall not commence any activity or production for 20% expansion until & unless the committed green area density is achieved.	<p>Noted and complied.</p> <p>Company is aware of given condition and assure not to commence any activity or production for 20% expansion until & unless the committed green area density is achieved.</p>																														
v	Total water requirement is 583 m3/day of which freshwater requirement of 290 m3/day will be met from Surface Water (Par River). The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawal only after obtaining valid agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF &CC before 1st July of every year for the activities carried out during the previous year.	<p>Complied.</p> <p>Fresh water consumption is well within the stipulated limit.</p> <ul style="list-style-type: none"> The total freshwater consumption details for the report period is given in below table: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 15%;">Month</th> <th style="width: 15%;">Water Consumption KL/M</th> <th style="width: 75%;">Avg. KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>April 2023</td> <td>4832</td> <td>161.06</td> </tr> <tr> <td>2</td> <td>May 2023</td> <td>5069</td> <td>163.51</td> </tr> <tr> <td>3</td> <td>June 2023</td> <td>4865</td> <td>162.16</td> </tr> <tr> <td>4</td> <td>July 2023</td> <td>4996</td> <td>161.16</td> </tr> <tr> <td>5</td> <td>August 2023</td> <td>4954</td> <td>159.8</td> </tr> <tr> <td>6</td> <td>September 2023</td> <td>4774</td> <td>159.13</td> </tr> </tbody> </table>	Sr. No.	Month	Water Consumption KL/M	Avg. KLD	1	April 2023	4832	161.06	2	May 2023	5069	163.51	3	June 2023	4865	162.16	4	July 2023	4996	161.16	5	August 2023	4954	159.8	6	September 2023	4774	159.13		
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vi	No banned chemicals shall be manufactured by the PP. No banned raw materials shall be used in the unit. The PP shall adhere to the notifications/guidelines of the	<p>Complied.</p> <p>No raw material/solvent prohibited by the concerned regulatory authorities from time to time, is used.</p> <p>No banned chemicals are manufactured by the unit. No banned raw materials are being used in the unit. The unit is complying with all the notifications/guidelines of the Government in this</p>																														

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vii	<p>Government in this regard.</p> <p>The PP shall utilize modern technologies for capturing carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF & CC in this regard.</p>	<p>regard.</p> <p>Noted.</p>																																																																								
viii	<p>The project proponent shall comply with the environment norms for Organic Chemical Industry as notified by the Ministry of Environment, Forest, and Climate Change, vide GSR 608(E), dated 21.07.2010 under the provisions of the Environment (Protection) Rules, 1986.</p>	<p>Complied.</p> <p>The unit is ZLD and complying with GPCB prescribed norms.</p>																																																																								
ix	<p>All necessary precautions shall be taken to avoid accidents and an action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.</p>	<p>Complied.</p> <p>We are taking utmost care and follow best engineering safety practices to avoid accidents. Onsite emergency plan is in place and mock drills are done at regular interval.</p> <p>Last mock drill was conducted on May 01, 2023. Report of the mock drill is attached herewith for your ready reference.</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-between;"> <div data-bbox="726 1523 1061 1926" style="width: 45%;"> <p>MOCK DRILL - Account</p> <p>Date: 01 May 2023 Monday Time: 08:55 hrs. to 09:25 hrs.</p> <p>Location of Incident (Shift): CO-203 column large joint leakage (Anand Kalambe & Chitra) at second floor.</p> <p>Type of Incident created for DRII: CO-206 column large joint leakage (Anand Kalambe & Chitra) - Chemical exposure.</p> <p>(A) Communication System</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sr. No.</th> <th>ACTIONS</th> <th>Responsibility</th> <th>Time (AM)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>At about 08:55 hrs Anand Kalambe (Shift In charge) observed that CO-206 column large joint leakage (Anand Kalambe & Chitra) at second floor.</td> <td>Ketan Chikhale (Shift In charge)</td> <td>08:55</td> </tr> <tr> <td>2</td> <td>Anand Kalambe (Mr. Dixit) fell down at floor immediately the co-ordinator Vikram Raj put fire alarm push the manual call point at same floor.</td> <td>Anand Kalambe</td> <td>08:56</td> </tr> <tr> <td>3</td> <td>Person who's near the victim inspected the area with proper PPE, access the main & return to incident controller & control room.</td> <td>DCS (Anaven) & Fire Control Room (Atul)</td> <td>08:57</td> </tr> <tr> <td>4</td> <td>Incident controller visit site and assessed whether to declare it as a emergency or not.</td> <td>Harshil Bhadiyadra</td> <td>08:59</td> </tr> <tr> <td>5</td> <td>Local / Onsite emergency activation.</td> <td>Plant Manager</td> <td>09:00</td> </tr> <tr> <td>6</td> <td>Incident Controller - Harshil Bhadiyadra informed to GM's manager Mr. Anil Tripathi & Mr. Santosh Ramani (Security manager).</td> <td>Anil Tripathi & Santosh Ramani</td> <td>09:03</td> </tr> <tr> <td>7</td> <td>The ambulance & fire team reached the site, shift manager returns the team for leakage situation and return to site at second floor. The fire team started searching the area & they located the operator from all floors to outside shift entrance.</td> <td>Mr. Pankaj Sindhiya & Fire members</td> <td>09:03</td> </tr> <tr> <td>8</td> <td>Evacuated Employee (Mr. Dixit) was rescued from MCA second floor to ambulance ground floor & shifted to department of health, Atul.</td> <td>Ambulance Person with company employee</td> <td>09:10</td> </tr> </tbody> </table> </div> <div data-bbox="1141 1467 1484 1926" style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>8</td> <td>After checking by Main Nurse Mr. Tishar accident to employee is not so serious after that discharged from department of health, Atul.</td> <td>Doctor & Main Nurse</td> <td>09:20</td> </tr> <tr> <td>9</td> <td>Head count done at Assembly point.</td> <td>Anand Kalambe</td> <td>09:20</td> </tr> <tr> <td>10</td> <td>Briefing about the incident at Assembly point.</td> <td>Anil Tripathi & crew</td> <td>09:25</td> </tr> <tr> <td>11</td> <td>All clear given activated.</td> <td>Santosh Ramani</td> <td>09:25</td> </tr> </table> <p>(B) Observer:</p> <ol style="list-style-type: none"> Mr. Harshil Bhadiyadra Mr. Santosh Ramani Mr. Anil Tripathi Mr. Tishar Mr. Prakash Kumar Mr. Anand Kalambe Mr. Pankaj Sindhiya <p>Incident sock MCA process building third floor Over at incident drill Assembly point & Incident reactor Department of health Photographs Head count & communication Incident log</p> <p>(C) Observation:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sr. No.</th> <th>ACTIONS</th> <th>Highlighted by</th> <th>Implementations with TBE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Develop communication system for all type of Emergency - (Open walkway walk only in operation chamber & one PR system to be installed at assembly point)</td> <td>Mr. Anil Tripathi</td> <td>October 2023 (Open functional open)</td> </tr> <tr> <td>2</td> <td>Blocklock (Security Staff) during onsite Emergency not observed.</td> <td>Mr. Pankaj Sindhiya</td> <td>October 2023 Conf in from Atul Security</td> </tr> <tr> <td>3</td> <td>Head count at assembly point - E. was observed that employees were not standing as per instructions of Incident.</td> <td>Mr. Anand Kalambe</td> <td>To be provided awareness training regarding assembly point in 1955 TBT</td> </tr> <tr> <td>4</td> <td>Injured person must be locked properly in procedure with proper supervision.</td> <td>Mr. Anil Tripathi & Ketan Chikhale</td> <td>October 2023</td> </tr> </tbody> </table> </div> </div>	Sr. No.	ACTIONS	Responsibility	Time (AM)	1	At about 08:55 hrs Anand Kalambe (Shift In charge) observed that CO-206 column large joint leakage (Anand Kalambe & Chitra) at second floor.	Ketan Chikhale (Shift In charge)	08:55	2	Anand Kalambe (Mr. Dixit) fell down at floor immediately the co-ordinator Vikram Raj put fire alarm push the manual call point at same floor.	Anand Kalambe	08:56	3	Person who's near the victim inspected the area with proper PPE, access the main & return to incident controller & control room.	DCS (Anaven) & Fire Control Room (Atul)	08:57	4	Incident controller visit site and assessed whether to declare it as a emergency or not.	Harshil Bhadiyadra	08:59	5	Local / Onsite emergency activation.	Plant Manager	09:00	6	Incident Controller - Harshil Bhadiyadra informed to GM's manager Mr. Anil Tripathi & Mr. Santosh Ramani (Security manager).	Anil Tripathi & Santosh Ramani	09:03	7	The ambulance & fire team reached the site, shift manager returns the team for leakage situation and return to site at second floor. The fire team started searching the area & they located the operator from all floors to outside shift entrance.	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x	<p>The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.</p>	<p>Complied.</p> <p>Below steps taken to control the VOCs fugitive emissions:</p> <ol style="list-style-type: none"> 1. We have a close loop system. 2. We have connected all 06 vents with appropriate scrubbers. 3. We have installed 18 nos of chlorine gas detectors in and around plant area. <p>Photograph of Scrubber:</p> 			

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xi	As committed by the PP, zero liquid discharge shall be ensured, Effluent of 303 m3/day quantity will be treated through ETP, MEE and RO	<p>Noted and complied.</p> <p>Unit is ZLD. The effluent generation from the unit is treated in ETP followed by RO and MEE. There is no liquid discharge outside the premises.</p> <ul style="list-style-type: none"> The total Wastewater generation details for the report period is given in below table: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Sr. No.</th> <th>Month</th> <th>Wastewater Generation KL/M</th> <th>Avg. KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>April 2023</td> <td>4943</td> <td>164.7</td> </tr> <tr> <td>2</td> <td>May 2023</td> <td>2285</td> <td>73.7</td> </tr> <tr> <td>3</td> <td>June 2023</td> <td>5959</td> <td>198.6</td> </tr> <tr> <td>4</td> <td>July 2023</td> <td>5295</td> <td>170.8</td> </tr> <tr> <td>5</td> <td>August 2023</td> <td>4608</td> <td>148.6</td> </tr> <tr> <td>6</td> <td>September 2023</td> <td>5154</td> <td>171.8</td> </tr> </tbody> </table> <p>Photograph of Flow meter :</p>	Sr. No.	Month	Wastewater Generation KL/M	Avg. KLD	1	April 2023	4943	164.7	2	May 2023	2285	73.7	3	June 2023	5959	198.6	4	July 2023	5295	170.8	5	August 2023	4608	148.6	6	September 2023	5154	171.8																													
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<p>xii</p>	<p>The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.</p>	<p>Noted and Complied. Unit is ZLD and treated water is recycled reused in cooling tower make up.</p>
<p>xiii</p>	<p>A continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB servers. For 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.</p>	<p>Complied.</p> <p>OCEMS installation work completed. The desired web camera and flow meters for effluent installed. Photographs are attached as Annexure 2.</p> <p>Our unit is ZLD. The desired web camera with night vision capability and flow meters in the channel drain carrying effluent within the premises installed.</p> <p>Photograph of night vision camera installed in ZLD unit is given below:</p> <div style="display: flex; justify-content: space-around;">   </div>

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xiv	<p>The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity. and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.</p>	<p>Complied.</p> <ul style="list-style-type: none"> Following chemicals are used and stored as per the best practice: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Sr . No.</th> <th style="width: 15%;">Chemical</th> <th style="width: 5%;">State</th> <th style="width: 5%;">Means of Storage</th> <th style="width: 10%;">Capacity of Storage Means</th> <th style="width: 5%;">No. of Storage means</th> <th style="width: 10%;">Total Capacity</th> <th style="width: 5%;">Pressure</th> <th style="width: 5%;">Temp.</th> </tr> </thead> <tbody> <tr> <td colspan="9" style="text-align: center;">Raw Material</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Acetic acid</td> <td>Liquid</td> <td>Tank</td> <td>500 m3</td> <td style="text-align: center;">1</td> <td>500 m3</td> <td>Atm</td> <td>Amb</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Acetic anhydride</td> <td>Liquid</td> <td>Tank</td> <td>80 m3</td> <td style="text-align: center;">1</td> <td>80 m3</td> <td>Atm</td> <td>Amb</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Catalyst</td> <td>Solid</td> <td>Drums</td> <td>100 Kgs</td> <td style="text-align: center;">10</td> <td>1000 kgs</td> <td>Atm</td> <td>Amb</td> </tr> <tr> <td colspan="9" style="text-align: center;">Product</td> </tr> <tr> <td style="text-align: center;">1</td> <td rowspan="2">MCA</td> <td>Solution</td> <td>Tank</td> <td>160 m3</td> <td style="text-align: center;">1</td> <td>160 m3</td> <td>Atm</td> <td>Amb</td> </tr> <tr> <td></td> <td>Flakes</td> <td>Bag</td> <td>25 Kgs, 1000 Kgs</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table> <p style="margin-top: 10px;">Photograph of tank farm, Dyke wall.</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>The best standard practices have been followed for hazardous chemicals storage.</p> <ul style="list-style-type: none"> Flame arresters are provided on tank farm, (Photograph) 	Sr . No.	Chemical	State	Means of Storage	Capacity of Storage Means	No. of Storage means	Total Capacity	Pressure	Temp.	Raw Material									1	Acetic acid	Liquid	Tank	500 m3	1	500 m3	Atm	Amb	2	Acetic anhydride	Liquid	Tank	80 m3	1	80 m3	Atm	Amb	3	Catalyst	Solid	Drums	100 Kgs	10	1000 kgs	Atm	Amb	Product									1	MCA	Solution	Tank	160 m3	1	160 m3	Atm	Amb		Flakes	Bag	25 Kgs, 1000 Kgs	-	-	-	-
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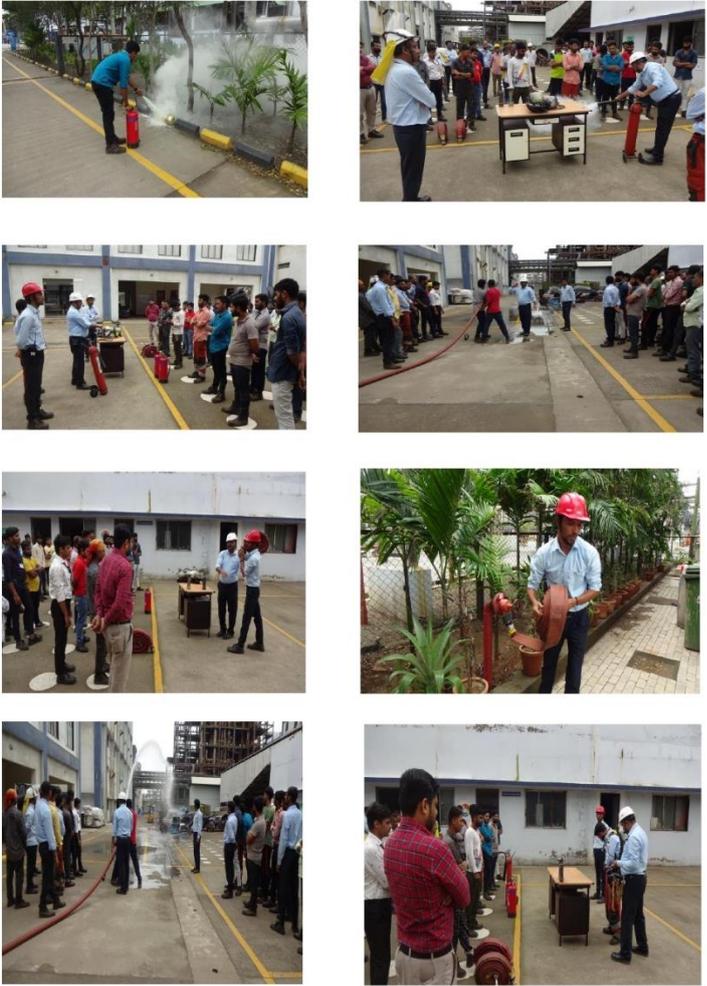
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		 <ul style="list-style-type: none"> • Raw material and products are stored in leak proof containers. • Acid is being stored in above ground tanks equipped with adequate dyke.
xv	<p>The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.</p>	<p>Noted and compliance assured.</p> <p>As the M/s. Anaven LLP is situated in the Atul Complex, a mutual aid agreement with partner company Atul Ltd is already done who is having well qualified resident doctors, whenever required instantly apart from nearby renowned hospitals.</p>
xvi	<p>Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.</p>	<p>Complied.</p> <p>Training is imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training has provided to employees. Action plan for mitigation measures has been implemented according to the safety and risk assessment studies.</p> <p>Training on Firefighting & SCBA Set given on dated August 08, 2023 and photographs of the training is given below:</p>

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		<p style="text-align: center;">Training on Firefighting & SCBA Set on dated 08.08.2023</p> 
<p>xvii</p>	<p>The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.</p>	<p>Complied. We have taken concrete steps for protection of possible fire hazards during the manufacturing process in material handling. Details of our Firefighting system is attached as Annexure 3.</p>
<p>xviii</p>	<p>The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and</p>	<p>Not Applicable. We are not using any solvent in our process.</p>

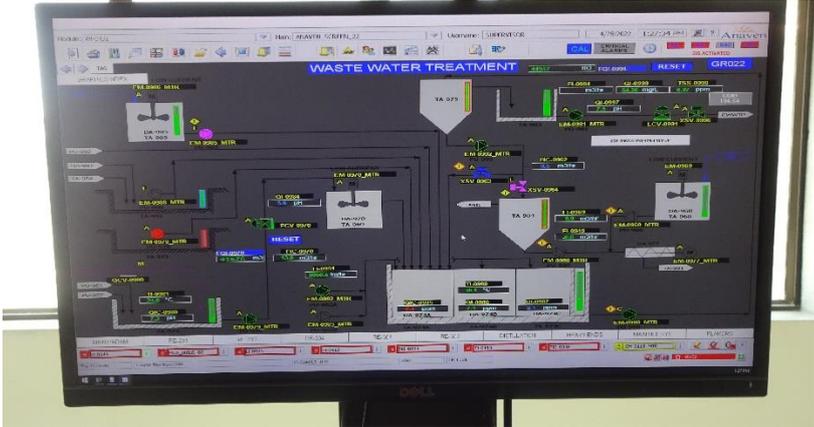
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	<p>solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p>	
<p>xix</p>	<p>The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.</p>	<p>Complied. We have installed a rainwater harvesting system. Rainwater from the roof area (admin building- 300 m² and flaker building- 500 m², Total 800 m²) is collected in 3 KL capacity tank, from where it is transferred (through pump with pumping capacity 15 m³/hr) to cooling tower as make up water and thus reuse. Collected rainwater is being reused within the premises.</p> <p>Photograph:</p> 

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		<p>We have separate drain system for storm water to nullify the possibility of mixing process effluent any wastewater with storm water. All the vent pipes are above the roof level. storm water channel photograph :</p> 
<p>xx</p>	<p>The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.</p>	<p>Noted & complied. We are committed to minimizing waste generation. Following steps are taken for same: a) Metering and controlling quantities of active ingredients to minimize waste. (b) Use of automated filling to minimize spillage. (d) Use of a closed feed system.</p> 

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		 <p>(e) Venting equipment through vapor recovery system. (f) Use of high-pressure hoses for equipment through vapor recovery system. (g) Use of high-pressure hoses for equipment clearing to reduce wastewater generation</p>
B	General Condition	
i	<p>No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p>	Noted.
ii	<p>The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response)</p>	Noted and compliance assured.

EC No. F. No. J-11011/286/2018-IA II(I)
 EC Identification No. EC22A021GJ120716

Period: April 2023 to September 2023

	<p>Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.</p>																																								
<p>iii</p>	<p>The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p>	<p>Complied. We have installed LED lights in and around plant area.</p> 																																							
<p>iv</p>	<p>The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (nighttime).</p>	<p>Complied. Adequate noise control measures like acoustic hoods, silencers, enclosures etc. provided on all sources of noise generation. We regularly monitor ambient noise level and it is found within the norms. Noise results is attached as : Annexure 4.</p> <p>Summary of Noise level monitoring is as below:</p> <table border="1" data-bbox="699 1386 1522 1939"> <thead> <tr> <th rowspan="2">Sr. No.</th> <th rowspan="2">Location</th> <th rowspan="2">GPCB Limits</th> <th colspan="3">Value for the Period April 23 – September 2023 (Day)</th> </tr> <tr> <th>Min.</th> <th>Max.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MCA Plant</td> <td>75</td> <td>65.9</td> <td>70.2</td> <td>68.05</td> </tr> <tr> <td>2</td> <td>Cooling tower pump area ground floor</td> <td>75</td> <td>64.1</td> <td>66.9</td> <td>65.5</td> </tr> <tr> <td>3</td> <td>Flaker ground floor</td> <td>75</td> <td>62.2</td> <td>65.3</td> <td>63.75</td> </tr> <tr> <td>4</td> <td>Flaker first floor</td> <td>75</td> <td>60.1</td> <td>63.4</td> <td>61.75</td> </tr> <tr> <td>5</td> <td>Flaker second floor</td> <td>75</td> <td>59.1</td> <td>63.8</td> <td>61.45</td> </tr> </tbody> </table>	Sr. No.	Location	GPCB Limits	Value for the Period April 23 – September 2023 (Day)			Min.	Max.	Avg.	1	MCA Plant	75	65.9	70.2	68.05	2	Cooling tower pump area ground floor	75	64.1	66.9	65.5	3	Flaker ground floor	75	62.2	65.3	63.75	4	Flaker first floor	75	60.1	63.4	61.75	5	Flaker second floor	75	59.1	63.8	61.45
Sr. No.	Location	GPCB Limits				Value for the Period April 23 – September 2023 (Day)																																			
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EC No. F. No. J-11011/286/2018-IA II(I)
 EC Identification No. EC22A021GJ120716

Period: April 2023 to September 2023

Sr. No.	Location	GPCB Limits	Value for the Period April 22 – September 2023 (Night)		
			Min.	Max.	Avg.
1	MCA Plant	70	57.7	59.3	58.5
2	Cooling tower pump area ground floor	70	57.4	59.7	58.55
3	Flaker ground floor	70	54.3	56.4	55.35
4	Flaker first floor	70	50.1	52.9	51.5
5	Flaker second floor	70	50.9	54.6	52.75

v	<p>The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p>	<p>Noted and complied. Details are given as Annexure 5.</p>
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EC No. F. No. J-11011/286/2018-IA II(I)
 EC Identification No. EC22A021GJ120716

Period: April 2023 to September 2023

vi	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p>	<p>Complied. Total investment under EMS during reporting period: 4 lacs Recurring cost: A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities.</p> <p>Total expenditure for the report period is given in below table:</p> <table border="1" data-bbox="699 584 1549 1032"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Recurring cost (Rs. In lacs) for the report period (April 23 to September 2023)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air Pollution control management</td> <td>102</td> </tr> <tr> <td>2</td> <td>Wastewater pollution control</td> <td>107.25</td> </tr> <tr> <td>3</td> <td>Environment monitoring and management</td> <td>1.43</td> </tr> <tr> <td>4</td> <td>Solid waste disposal</td> <td>4.14</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total</td> <td>214.82</td> </tr> </tbody> </table>	Sr. No.	Parameter	Recurring cost (Rs. In lacs) for the report period (April 23 to September 2023)	1	Air Pollution control management	102	2	Wastewater pollution control	107.25	3	Environment monitoring and management	1.43	4	Solid waste disposal	4.14	Total		214.82
Sr. No.	Parameter	Recurring cost (Rs. In lacs) for the report period (April 23 to September 2023)																		
1	Air Pollution control management	102																		
2	Wastewater pollution control	107.25																		
3	Environment monitoring and management	1.43																		
4	Solid waste disposal	4.14																		
Total		214.82																		
vii	<p>A copy of the clearance letter shall be sent by the project proponent to be concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	<p>Complied. The details mentioned in stated condition have been circulated sent to concern panchayat, Zilla parishad/Municipal Corporation while processing the proposal.</p>																		
viii	<p>The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.</p>	<p>Complied. We regularly submit six monthly compliance report and also uploading on company's web site.</p>																		

EC No. F. No. J-11011/286/2018-IA II(I)
 EC Identification No. EC22A021GJ120716

Period: April 2023 to September 2023

ix	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.</p>	<p>Complied. Environmental statement for FY: 2022-2023 has been submitted to GPCB on September 20, 2023. The copy of the same is attached as Annexure 6.</p>
x	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at the Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>Complied. The details mentioned in stated condition have been circulated sent to concern authority as well as advertised in local newspaper while processing the proposal.</p>
xi	<p>The project authorities 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 and the date of start of the project.</p>	<p>Noted.</p>
xii	<p>This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any,</p>	<p>Noted.</p>

EC No. F. No. J-11011/286/2018-IA II(I)
EC Identification No. EC22A021GJ120716

Period: April 2023 to September 2023

	as may be applicable to this project.	
--	---------------------------------------	--

Annexure -1
Results of process stack and Flue gas stack

Details of Process & flue stack									
Sr. No.	Stack Details	Parameter	Permissible limits	Obtained value					
				April 2023	May 2023	June 2023	July 2023	August 2023	September 2023
1	HCL Storage tank	HCl	20 mg/Nm ³	14.5	14.0	12.9	14.6	9.9	8.6
2	Flaker stack	HCl	20 mg/Nm ³	13.9	12.3	11.0	13.4	9.7	10.8
3	Acetic acid storage tank	Acetic acid	---	ND	ND	ND	ND	ND	ND
4	Vacuum Pump stack	HCl	20 mg/Nm ³	12.6	11.4	10.8	11.4	10.4	11.9
5	Chlorinator stack	HCl	20 mg/Nm ³	13.6	14.1	13.8	14.4	13.6	14.2
		Chlorine as Cl ₂	09 mg/Nm ³	5.3	6.4	6.0	6.6	4.6	4.3
6	Hydrogenation	HCl	20 mg/Nm ³	9.8	8.8	9.1	8.8	6.7	6.1
7	DG set stack	PM	150 mg/Nm ³	82	88	91	75	78	75
		SO ₂	100 ppm	16.5	18	19	23	26	28
		NO _x	50 ppm	33.9	41.3	40.1	32.7	29.4	30.9

Annexure- 2

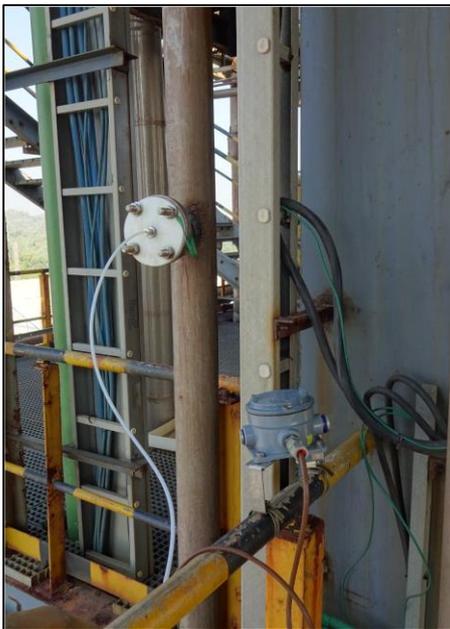
Photograph of OCEMS (Installed)



OCEMS Panel



Cylinder



Tapping @Hydrogenation



Tapping @Chlorination

Annexure -3 Details of our Firefighting system

Details of fire extinguisher installed in various locations are as below:

Fire extinguisher type	Qty.
ABC - 6 Kg	72
ABC - 50 Kg	5
CO2 - 4.5 Kg	06
CO2 - 6.5 Kg	10



FIRE FIGHTING AND OTHER ARRANGEMENTS FOR OFF-SITE EMERGENCY

2. AVAILABILITY OF FIRE FIGHTING FACILITES:

HYDRANT SYSTEM:

Detailed Hydrant System drawing, pipeline layout, hydrant post locations along with isolation valve positions displayed in all ECC as well as fire stations and plant control rooms.

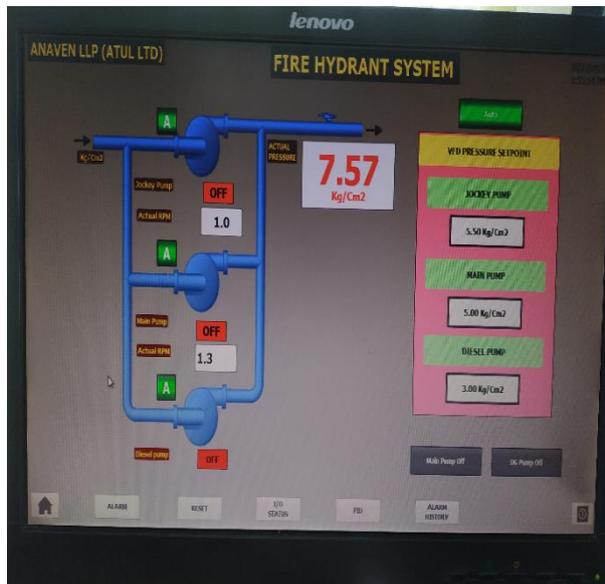
1) Anaven

Fire water pumps	:	273 KL/hr. -1 Nos. (Elect)
Jockey pump	:	10.8 KL/hr. -1 Nos.
Diesel Driven Fire Pump	:	273 KL/hr. -1 Nos.

2) East Side Fire water reservoir (Atul water Reservoir): 46000KL

Fire water pumps	:	410 KL/hr. -2 Nos. (Elect)
Jockey pump (Atul Water Reservoir)	:	30 KL/hr. -2 Nos.
Diesel Driven Fire Pump	:	410 KL/hr. -2 Nos.

Fire pumps operation / status indication panel provided at on automatic with audio / visual alarm



3. FIRE HYDRANT NETWORK DETAILS:

Single Hydrant points	: 15 Nos
Double Hydrant points	: 00 Nos
Riser fire escape hydrant points	: 24 Nos.
High velocity long range monitor:	05 Nos.
Hose boxes (FEH)	: 39 Nos.
Hose pipes: 15 Mts.	: 78 Nos.
Hose pipes 7.5 Mts.	: 00 Nos.
Branch pipes (Jet types)	: 10 Nos.
Branch pipes (Triple purpose)	: 39 Nos.
Foam making branch pipes	: 03 Nos.



4. FIRE TENDER:

Three fire tenders are available at Atul site.

Details are as under

One fire tender having 1800ltr water capacity,

2nd Multipurpose fire tender having 5000-liter water and 500ltr foam.

3rd Multipurpose fire tender having facility of 500 kg DCP, 500ltr foam & 45000ltr water capacity.

5. FIRE DETECTION SYSTEM:

Automatic detection of fire is essential especially for high hazard, sensitive and unmanned areas. We have provided an automatic fire detection system which includes heat and smoke detector to give audio / visual alarm / signal locally as well as in the permanently manned area. This in turn helps in early detection of fire and to start firefighting activity at an early stage.

Area	Method of Detection	Warning indication
Anaven Admin	Smoke detector	On fire alarm panel
MCA Control room	Smoke detector	On fire alarm panel



8.1.4 FIRE ALARM:

A combined fire alarm system is available (conventional and addressable) with manual call points and detectors provided in the entire plant, on activation of MCP, siren will blow as mentioned below pattern.

SR.NO.	PLANT	Nos. of MCP
1	MCA	12
2	Flaker	12
3	Admin	5
4	MCC	6
5	Utility	2
6	Tank farm	2
7	WWTP	3

The fire alarm system is tested every Monday at 09:00 am from the plant in rotation manner and record is maintained.



Annexure – 4

Noise Report

Sr. No.	Location	Noise Level, dBA												Permissible Limits, dBA
		April 2023		May 2023		June 2023		July 2023		August 2023		September 2023		
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	
1	MCA plant ground floor	70.2	59.3	69.6	58.3	68.0	57.7	68.9	58.9	65.9	57.8	66.9	58.3	75 Day 70 Night
2	Cooling tower pump area ground floor	66.9	58.7	65.0	59.7	64.1	58.0	65.4	57.4	63.8	58.8	64.3	59.6	75 Day 70 Night
3	Flaker ground floor	62.9	56.4	63.3	55.1	62.2	54.3	63.8	55.1	65.3	54.3	64.8	55.9	75 Day 70 Night
4	Flaker first floor	63.4	51.2	62.7	52.9	62.0	51.6	60.1	52.7	61.7	51.7	62.9	50.1	75 Day 70 Night
5	Flaker second floor	61.1	53.6	63.8	54.6	61.9	53.3	59.8	51.9	60.8	50.9	59.1	51.3	75 Day 70 Night

Annexure – 5

CER activity for the year 2023-24

List of activities identified for year 23-24:

CER 2023-24						
Sr. No.	Name of the Activity	Qty.	Sectors Area	Village	Estimated cost (₹ lakh)	Remarks
1	Model Anganwadi Project 2023-24	6	Education	Anjlav, Balda, Pardi, Pariya, Kanjanhari	32	civil work, Painting, Art Painting and Structural work.
2	RCC road from Atul gram Panchayat to Atul Foundation Health Center – Juna Nayakwad	1	Infrastructure	Atul	31.94
3	Rainwater Harvesting	15	Conservation	Nearby villages	15	Survey completed and Estimates prepared
				Total	78.94	

Annexure - 6

Environmental Statement : Form V (FY : 2022-2023)

Nouryon

Anaven

Anaven LLP

Atul 396 020, Gujarat, India
contact@anaven.co.in | (+91 2632) 230000

Atul

Anaven | GPCB | FormV
ID: 60407
September 20, 2023

To,
Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10 – A
GANDHINAGAR - 382 010

Subject: Submission of Form V

Dear Sir,
We are enclosing herewith duly filled form – V for the financial year ending March 31, 2023.

Kindly receive the same.

Thanking you,
Yours faithfully,
For Anaven LLP,



Authorized signatory
C.C.
Regional officer,
GPCB, Vapi (Dist: Valsad)

ANAVEN LLP

Registered office: Survey No. 33/P1, Atul, Valsad, 396 020, Gujarat, India
Gujarat, India LLPIN: AAJ-4229

[Form V]
(See Rule 14)
Environmental Statement for the financial year ending the 31st March 2023

Part - A

(i)	Name and address of the owner/occupier of the industry operation or process	:	Mr. Gopi Kannan Rengachari Occupier, Anaven LLP Survey No.33/P1 P.O. Atul -396020 District -Valsad Gujarat
(ii)	Industry category Primary (STC code) Secondary (STC code)	:	Red- Chemical Manufacturing Industry
(iii)	Production Capacity	:	Please refer Annexure - 1
(iv)	Year of establishment	:	2017
(v)	Date of last environmental Statement submitted	:	September 15, 2022

Part - B

Water and Raw Material Consumption

(1) Water consumption m³/day

Process : 72 kl/day
Cooling : 97 kl/day
Domestic : 8 kl/day

Sr. No.	Name of products	Process water consumption per unit of product output	
		During the previous financial year (1)	During the current financial year (2)
1.	Monochloro Acetic Acid (MCA)	3.44 KL / MT	3.19 KL / MT

(2) Raw material consumption

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
Please refer Annexure - 2			

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

Part - C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Industrial waste water is being treated into the ETP followed by RO and final treatment by MEE. Hence, unit is maintaining zero liquid discharge system (ZLD).		NIL
b) Air	Cl ₂ : 2.825 mg/NM ³ (Avg.) HCl: 8.075 mg/NM ³ (Avg.)		

Part - D

Hazardous Wastes

[as specified under Hazardous Wastes (Management & Handling) Rules, 2016 and amendment thereof]

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year	During the current Financial year
From process	20155.31	26755
From pollution control facilities	113	160.42

Part - E

Solid Wastes

Solid Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
(a) From process (Fly Ash)	Not Applicable	Not Applicable
(b) From pollution control facility		
(c) (1) Quantity recycled or re-utilized within the unit		
(2) Sold		
(3) Disposed		

Part - F

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

Description of waste	Physical form	Biodegradability	Mode of Disposal
Spent Catalyst	Solid	--	Selling to Regenerator
ETP Sludge	Solid	Biodegradable	TSDf of Atul Ltd. Or Send to authorized TSDf sites
Liners/bags Used Containers Drums/HDPE Carboys	Solid	Non-Biodegradable	Selling to authorized registered recycler.
Used Oil	Liquid	Biodegradable	Selling to registered recycler
Hydrochloric Acid*	Liquid	Non-Biodegradable	Selling to those units who having permission of Rule 9.
Salt From MEE/MVR	Solid	Non-Biodegradable	TSDf of Atul Ltd.

Part – G

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

Water conservation:

Rainwater harvesting system is developed in the project area and collected water is being used in the process | utilities of the unit.

Energy conservation:

We have a set-up timer in LED light which operates at desired timeline (Evening-On & morning -Off).

Part – H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

- Industrial waste water is being treated into the ETP followed by RO and final treatment by MEE. Hence, unit is maintaining zero liquid discharge system (ZLD).
- For ZLD, the desired web camera with night vision capability and flow meters in the channel | drain carrying effluent within the premises installed.
- Details of Investment and/or recurring cost towards Environment Protection for the year 2022-2023;

Sr. No.	Parameter	Recurring Cost per annum (Rs. in lacs)
1	Environmental monitoring and management	2.87

Part – I

Any other particulars for improving the quality of the environment.

Please refer Annexure 3

Annexure – 1

Product List

Serial No.	Name of products	Production Capacity (MT/Annum)
1	Monochloro Acetic Acid (MCA)	32,000
2	HE- dichloro and trichloro acetic acid	448

Annexure: 2

Details of raw material consumption

Sr No.	Name of Raw Materials	FY: 2022-23
1	Acetic acid	12193311 Kg
2	Acetic anhydride	892372 Kg
3	Liquid chlorine	16453552 Kg
4	Hydrogen	1427575 Nm3
5	Caustic soda (32%)	421428 Kg

Annexure: 3

Details of Actions taken for improvement of quality of Environment and measures taken for pollution abatement and resource conservation.

We are committed to improve quality of Environment and related following actions are taken:

- 1) Unit has installed online continuous emission monitoring system.
- 2) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
- 3) Use of automated filling to minimize spillage.
- 4) Metering and control of quantities of active ingredients to minimize waste.
- 5) We have installed LED lights in and around plant area.
- 6) Use of close feed system into batch reactors.
- 7) Venting equipment through vapour recovery system

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Project: Expansion of Monochloro Acetic Acid (MCA) manufacturing unit from 5100 TPA to 32000 TPA

Sr. No.	Condition	Compliance Status																																		
A	Specific Conditions:																																			
i	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	<p>Complied. All the environmental protection measures and safeguards proposed in the documents submitted to the ministry are in place. The recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project are being implemented and listed below:</p> <p>❖ In-built mitigation measures:</p> <ul style="list-style-type: none"> Total 06 vents (including 02 storage tanks vents of HCl and Acetic acid) are treated through scrubbers with appropriate scrubbing media and then released to safe locations. Also, all scrubbers are suitably designed. Details are given below: <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 10%;">S. No</th> <th style="width: 30%;">Vent (Stack) Attached to</th> <th style="width: 30%;">Pollutants</th> <th style="width: 30%;">APCM</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Chlorinator</td> <td>Cl₂, HCl</td> <td>Water and Caustic Scrubber</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Hydrogenator</td> <td>Hydrogen+ HCl</td> <td>Water Scrubber</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Vacuum pump</td> <td>HCl</td> <td>Water Scrubber</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Flakers</td> <td>Traces of HCl</td> <td>Water Scrubber</td> </tr> <tr> <td style="text-align: center;">5</td> <td>HCl storage tank</td> <td>Traces of HCl</td> <td>Water Scrubber</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Acetic acid storage tank</td> <td>Traces of Acetic acid</td> <td>Water Scrubber</td> </tr> </tbody> </table> <p>❖ General Mitigation Measures for Air Quality Control during Operation Phase:</p> <ul style="list-style-type: none"> Adequate stack height is provided to flue gas stack. Suitable air pollution control equipment is installed. Details of Stack, Height and APCM is given in below table <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 40%;">Flue gas stack</th> <th style="width: 30%;">Type of Fuel</th> <th style="width: 30%;">Stack Height</th> </tr> </thead> <tbody> <tr> <td>DG set (Capacity 500 KVA)</td> <td>HSD</td> <td style="text-align: center;">10 m</td> </tr> </tbody> </table>	S. No	Vent (Stack) Attached to	Pollutants	APCM	1	Chlorinator	Cl ₂ , HCl	Water and Caustic Scrubber	2	Hydrogenator	Hydrogen+ HCl	Water Scrubber	3	Vacuum pump	HCl	Water Scrubber	4	Flakers	Traces of HCl	Water Scrubber	5	HCl storage tank	Traces of HCl	Water Scrubber	6	Acetic acid storage tank	Traces of Acetic acid	Water Scrubber	Flue gas stack	Type of Fuel	Stack Height	DG set (Capacity 500 KVA)	HSD	10 m
S. No	Vent (Stack) Attached to	Pollutants	APCM																																	
1	Chlorinator	Cl ₂ , HCl	Water and Caustic Scrubber																																	
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3	Vacuum pump	HCl	Water Scrubber																																	
4	Flakers	Traces of HCl	Water Scrubber																																	
5	HCl storage tank	Traces of HCl	Water Scrubber																																	
6	Acetic acid storage tank	Traces of Acetic acid	Water Scrubber																																	
Flue gas stack	Type of Fuel	Stack Height																																		
DG set (Capacity 500 KVA)	HSD	10 m																																		

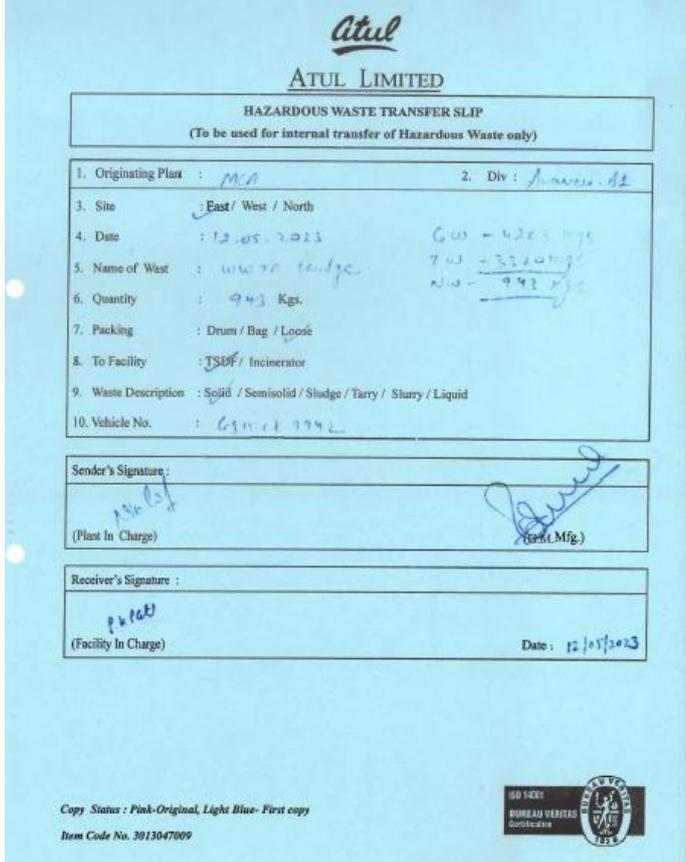
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		<p>Process Stack:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 5%;">S. No</th> <th style="width: 25%;">Stack Attached to</th> <th style="width: 10%;">Stack ht. m</th> <th style="width: 20%;">Pollutants</th> <th style="width: 35%;">APCM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chlorinator</td> <td>35</td> <td>Cl₂, HCl</td> <td>Water and Caustic Scrubber</td> </tr> <tr> <td>2</td> <td>Hydrogenator</td> <td>35</td> <td>Hydrogen + HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>3</td> <td>Vacuum pump</td> <td>38</td> <td>HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>4</td> <td>Flakers</td> <td>45</td> <td>Traces of HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>5</td> <td>HCl storage tank</td> <td>18</td> <td>Traces of HCl</td> <td>Water Scrubber</td> </tr> <tr> <td>6</td> <td>Acetic acid storage tank</td> <td>15</td> <td>Traces of Acetic acid</td> <td>Water Scrubber</td> </tr> </tbody> </table> <p>Results of flue gas and process gas monitoring are well within the prescribed limit and attached as Annexure-1.</p> <p>❖ Mitigation measures for water and wastewater:</p> <ul style="list-style-type: none"> • Unit is ZLD. The effluent generation from the unit is treated in ETP followed by RO and MEE. • Online flow meters are installed to measure effluent at ETP. <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> • The total freshwater consumption details for the report period is given in below table: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 25%;">Month</th> <th style="width: 20%;">Water Consumption KL/M</th> <th style="width: 30%;">Avg. KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>April 2023</td> <td style="text-align: center;">4832</td> <td style="text-align: center;">161.06</td> </tr> <tr> <td>2</td> <td>May 2023</td> <td style="text-align: center;">5069</td> <td style="text-align: center;">163.51</td> </tr> <tr> <td>3</td> <td>June 2023</td> <td style="text-align: center;">4865</td> <td style="text-align: center;">162.16</td> </tr> </tbody> </table>	S. No	Stack Attached to	Stack ht. m	Pollutants	APCM	1	Chlorinator	35	Cl ₂ , HCl	Water and Caustic Scrubber	2	Hydrogenator	35	Hydrogen + HCl	Water Scrubber	3	Vacuum pump	38	HCl	Water Scrubber	4	Flakers	45	Traces of HCl	Water Scrubber	5	HCl storage tank	18	Traces of HCl	Water Scrubber	6	Acetic acid storage tank	15	Traces of Acetic acid	Water Scrubber	Sr. No.	Month	Water Consumption KL/M	Avg. KLD	1	April 2023	4832	161.06	2	May 2023	5069	163.51	3	June 2023	4865	162.16
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EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status																														
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I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations. 2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste. </p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">Name and stamp of sender:</div> <div style="width: 30%;">Date:</div> <div style="width: 30%;">Signature:</div> </div> <hr/> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">Transporter's Acknowledgement of Receipt of waste Stamp:</div> <div style="width: 30%;">Date:</div> <div style="width: 30%;">Signature:</div> </div> <hr/> <div style="font-size: x-small; margin-top: 10px;"> Receiver's Certification of Receipt of Hazardous waste In Principal Approval Details :Accepted - 29/09/2023 9:32AM - Remarks :Hydrochloric acid </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">Stamp:</div> <div style="width: 30%;">Date:</div> <div style="width: 30%;">Signature:</div> </div> <div style="text-align: right; margin-top: 20px;">  </div> <p style="font-size: x-small; margin-top: 10px;"> By scanning QR code, copy of transporter will be display. (All copy has same information) Print by 60407 @ 29/09/2023 09:39:58 AM 004165c4-b05c-4dfd-9009-4fne28d0cb57 Page 1 of 1 </p>	Sender's Details				Sender Name	ANAVEN LLP [90407]			Address	Anaven LLP, Survey no. 33/P1, Atul Taluka : VAL District:VAL Pin no:396020			Contact Details	9723551316	hriday_desai@atul.co.in	GPS Coordinates				Lat :20.537649479737844 Long :72.94415041342452	Receiver's Details				State	Gujarat	Type of Facility	Actual user (within state)	Facility Details	SHREE SAI INDUSTRIES [69138]			Contact Details	9979858713	dollycorporation11@yahoo.com	GPS Coordinates				Lat :20.288395812450073 Long:72.85143311216845	Address	Plot No. 5/21, Opp. Fire Station Road, Sarigam GIDC, Sarigam, Taluka :SAR District:SAR Pin no:396195			Waste Details				Waste Details	II-B-85-Inorganic Acids (Spent Acids)			Waste Intended for	Recycling	Total Qty	24.450MT			Consistency	liquid	Transporter Details				Name	SHREE SAI INDUSTRIES		Contact Details				9979858713 patelpraveesh@yahoo.com	Address	1st floor, Shree Sainath Complex-1 District :Valsad-Sarigam Taluka :Umbergaon			Vehicle Details				Vehicle no	G15AV7776 (IME No :861100063957878)	GPS Enabled	Yes	Driver name	Avil Kumar	Driver Contact No	9119935625	Type of Vehicle	Tanker			Waste Transportation Details				Vehicle Depart.	29/09/2023 12:00PM	Number of Drums	0			Loose Waste	24.450	Remarks	Hydrochloric Acid - HCl 36% supply to Shree Sai Industries, Sarigam, GIDC, Vapi		No of bags				0
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❖ **Greenbelt:**

- Anaven has already developed greenbelt in an area of 9.8% i.e. 647 sqm out of total area of the project. An additional 24% i.e. 1594 sqm greenbelt is developed at Atul village.
- Photograph of green belt:

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status
		 

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		 <p>The top photograph shows a row of green plants in a fenced area next to a building. The bottom photograph shows a similar view through a chain-link fence, highlighting the plants and the surrounding industrial environment.</p>

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Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status
ii	<p>As already committed by the project proponent, zero liquid discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the wastewater to be collected and to be reused after treatment.</p>	<p>Complied. Unit is ZLD. The effluent generation from the unit is treated in ETP followed by RO and MEE. There is no liquid discharge outside the premises. Details for wastewater generation is given in above condition (i). Photograph of Flow meter :</p> 
iii	<p>No raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used.</p>	<p>Complied. No raw material/solvent prohibited by the concerned regulatory authorities from time to time, is used.</p>
iv	<p>Solvent management shall be carried out as follows:(a) reactor shall be connected to chilled brine condenser system. (b)Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c)Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flameproof. The solvent storage tanks shall be provided with breather valves to prevent losses.(f) All the solvent storage tanks shall be connected with vent</p>	<p>Not Applicable. We are not using any solvent in our process.</p>

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

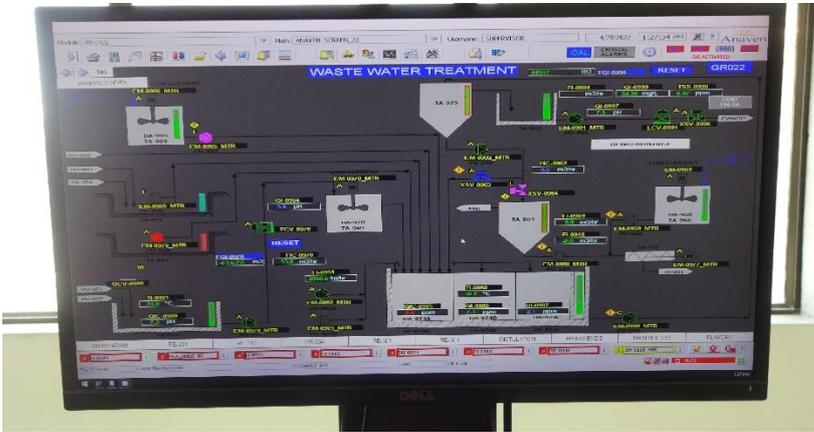
Sr. No.	Condition	Compliance Status																																																																												
	condensers with chilled brine circulation.																																																																													
v	Volatile organic compounds (VOCs)/fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.	<p>Complied. Below steps taken to control the VOCs fugitive emissions:</p> <ol style="list-style-type: none"> 1. We have a close loop system. 2. We have connected all 06 vents with appropriate scrubbers. 3. We have installed 18 nos of chlorine gas detectors in and around plant area. <table border="1" data-bbox="662 667 1492 1809"> <thead> <tr> <th data-bbox="668 667 746 741">Sr. No.</th> <th data-bbox="754 667 922 741">Tag No.</th> <th data-bbox="930 667 1241 741">Type</th> <th data-bbox="1249 667 1485 741">Area</th> </tr> </thead> <tbody> <tr><td>1</td><td>QI-0140</td><td>Gas Explosion Detector</td><td>HAC TF</td></tr> <tr><td>2</td><td>QT-0257A</td><td>Chlorine gas detector</td><td>MCA 4 Floor</td></tr> <tr><td>3</td><td>QT-0257B</td><td>Chlorine gas detector</td><td>MCA 4 Floor</td></tr> <tr><td>4</td><td>QT-0257C</td><td>Chlorine gas detector</td><td>MCA 4 Floor</td></tr> <tr><td>5</td><td>QT-0257D</td><td>Chlorine gas detector</td><td>MCA 4 Floor</td></tr> <tr><td>6</td><td>QT-0257E</td><td>Chlorine gas detector</td><td>MCA 2 FLOOR</td></tr> <tr><td>7</td><td>QT-0257F</td><td>Chlorine gas detector</td><td>MCA 3 Floor</td></tr> <tr><td>8</td><td>QT-0257G</td><td>Chlorine gas detector</td><td>DCS HVAC System</td></tr> <tr><td>9</td><td>QT-0257H</td><td>Chlorine gas detector</td><td>MCA 4 Floor</td></tr> <tr><td>10</td><td>QT-0257I</td><td>Chlorine gas detector</td><td>MCA 3 Floor</td></tr> <tr><td>11</td><td>QT-0257J</td><td>Chlorine gas detector</td><td>MCA 3 Floor</td></tr> <tr><td>12</td><td>QT-0257K</td><td>Chlorine gas detector</td><td>MCA 3 Floor</td></tr> <tr><td>13</td><td>QI-0908</td><td>Chlorine detector with Sample System</td><td>MCA 8 Floor</td></tr> <tr><td>14</td><td>QIZ-0909</td><td>Chlorine detector with Sample System</td><td>MCA 8 Floor</td></tr> <tr><td>15</td><td>QI-2004</td><td>Chlorine gas detector</td><td>MCA 0 Floor</td></tr> <tr><td>16</td><td>QI-2003</td><td>Chlorine gas detector</td><td>MCA 0 Floor</td></tr> <tr><td>17</td><td>QI-2005</td><td>Chlorine gas detector</td><td>Near DG Room</td></tr> <tr><td>18</td><td>QI-2006</td><td>Chlorine gas detector</td><td>B/H Flaker Building</td></tr> </tbody> </table>	Sr. No.	Tag No.	Type	Area	1	QI-0140	Gas Explosion Detector	HAC TF	2	QT-0257A	Chlorine gas detector	MCA 4 Floor	3	QT-0257B	Chlorine gas detector	MCA 4 Floor	4	QT-0257C	Chlorine gas detector	MCA 4 Floor	5	QT-0257D	Chlorine gas detector	MCA 4 Floor	6	QT-0257E	Chlorine gas detector	MCA 2 FLOOR	7	QT-0257F	Chlorine gas detector	MCA 3 Floor	8	QT-0257G	Chlorine gas detector	DCS HVAC System	9	QT-0257H	Chlorine gas detector	MCA 4 Floor	10	QT-0257I	Chlorine gas detector	MCA 3 Floor	11	QT-0257J	Chlorine gas detector	MCA 3 Floor	12	QT-0257K	Chlorine gas detector	MCA 3 Floor	13	QI-0908	Chlorine detector with Sample System	MCA 8 Floor	14	QIZ-0909	Chlorine detector with Sample System	MCA 8 Floor	15	QI-2004	Chlorine gas detector	MCA 0 Floor	16	QI-2003	Chlorine gas detector	MCA 0 Floor	17	QI-2005	Chlorine gas detector	Near DG Room	18	QI-2006	Chlorine gas detector	B/H Flaker Building
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vi	<p>To control source and the fugitive emissions (at 99.997%), suitable and adequate pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.</p>	<p>Complied. We have installed suitable and adequate pollution control devices to meet the prescribed norms and/or the NAAQS. The gaseous emissions are dispersed through stack of adequate height as per CPCB SPCB guidelines. Stack emission monitoring is done through NABL approved third party. Photograph of Scrubber:</p>  <p>Results of the same are given below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Sr. No.</th> <th rowspan="2">Stack details</th> <th rowspan="2">Parameter</th> <th rowspan="2">GPCB Limits</th> <th colspan="3">Value for the Period April 23 – September 2023</th> </tr> <tr> <th>Min.</th> <th>Max.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HCL Storage tank</td> <td>HCl</td> <td>20 mg/Nm³</td> <td>8.6</td> <td>14.6</td> <td>11.6</td> </tr> <tr> <td>2</td> <td>Flaker stack</td> <td>HCl</td> <td>20 mg/Nm³</td> <td>9.7</td> <td>13.9</td> <td>11.8</td> </tr> <tr> <td>3</td> <td>Acetic acid storage tank</td> <td>Acetic Acid</td> <td>-</td> <td>ND</td> <td>ND</td> <td>ND</td> </tr> <tr> <td>4</td> <td>Vacuum Pump stack</td> <td>HCl</td> <td>20 mg/Nm³</td> <td>10.4</td> <td>12.6</td> <td>11.5</td> </tr> <tr> <td rowspan="2">5</td> <td rowspan="2">Chlorinator stack</td> <td>HCl</td> <td>20 mg/Nm³</td> <td>13.6</td> <td>14.4</td> <td>14.0</td> </tr> <tr> <td>Chlorine as Cl₂</td> <td>09 mg/Nm³</td> <td>4.3</td> <td>6.6</td> <td>5.45</td> </tr> <tr> <td>6</td> <td>Hydrogenation</td> <td>HCl</td> <td>20 mg/Nm³</td> <td>6.1</td> <td>9.8</td> <td>7.95</td> </tr> </tbody> </table> <p>DG set stack Results:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Test Parameter</th> <th>Unit</th> <th>Min.</th> <th>Max.</th> <th>Average</th> <th>Permissible Limit</th> </tr> </thead> <tbody> <tr> <td>Particulate Matter</td> <td>mg/Nm³</td> <td>75</td> <td>91</td> <td>83</td> <td>150</td> </tr> </tbody> </table>	Sr. No.	Stack details	Parameter	GPCB Limits	Value for the Period April 23 – September 2023			Min.	Max.	Avg.	1	HCL Storage tank	HCl	20 mg/Nm ³	8.6	14.6	11.6	2	Flaker stack	HCl	20 mg/Nm ³	9.7	13.9	11.8	3	Acetic acid storage tank	Acetic Acid	-	ND	ND	ND	4	Vacuum Pump stack	HCl	20 mg/Nm ³	10.4	12.6	11.5	5	Chlorinator stack	HCl	20 mg/Nm ³	13.6	14.4	14.0	Chlorine as Cl ₂	09 mg/Nm ³	4.3	6.6	5.45	6	Hydrogenation	HCl	20 mg/Nm ³	6.1	9.8	7.95	Test Parameter	Unit	Min.	Max.	Average	Permissible Limit	Particulate Matter	mg/Nm ³	75	91	83	150
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Sr. No.	Condition	Compliance Status					
		SO ₂	PPM	16.5	28	22.25	100
		NO _x	PPM	29.4	41.3	35.35	50
vii	Rainwater harvesting system shall be developed in the project area and collected water shall be used in the process/utilities of the unit.	<p>Complied.</p> <p>We have installed a rainwater harvesting system. Rainwater from the roof area (admin building- 300 m² and flaker building- 500 m², Total 800 m²) is collected in 3 KL capacity tank, from where it is transferred (through pump with pumping capacity 15 m³/hr) to cooling tower as make up water and thus reuse. Collected rainwater is being reused within the premises.</p> <p>Photograph:</p> 					

Sr. No.	Condition	Compliance Status																																													
Viii	Total freshwater requirement shall not exceed 186.1 cum/day, proposed to be met from river par. Necessary permission shall be obtained in this regard from concerned regulatory authority. The freshwater demand shall be reduced by 10% using rain water harvesting system.	<p>Complied. Details for freshwater consumption are given in above specific condition (i). Fresh water consumption is well within the stipulated limit. Rainwater harvesting system is provided as mentioned in the point no. vii.</p>																																													
ix	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. All the vent pipes should be above the roof level.	<p>Complied. We have a separate drain system for storm water to nullify the possibility of mixing process effluent any wastewater with storm water. All the vent pipes are above the roof level.</p> <p>(storm water photograph) :</p> 																																													
x	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps. Raw material and products should be stored in leakproof containers. Spent acid to be stored over the ground tank and to be sent to TSDF.	<p>Complied.</p> <ul style="list-style-type: none"> Following chemicals are used and stored as per the best practice: <table border="1" data-bbox="662 1473 1520 1993"> <thead> <tr> <th>Sr. No.</th> <th>Chemical</th> <th>State</th> <th>Means of Storage</th> <th>Capacity of Storage Means</th> <th>No. of Storage means</th> <th>Total Capacity</th> <th>Pressure</th> <th>Temp.</th> </tr> </thead> <tbody> <tr> <td colspan="9">Raw Material</td> </tr> <tr> <td>1</td> <td>Acetic acid</td> <td>Liquid</td> <td>Tank</td> <td>500 m³</td> <td>1</td> <td>500 m³</td> <td>Atm</td> <td>Amb</td> </tr> <tr> <td>2</td> <td>Acetic anhydride</td> <td>Liquid</td> <td>Tank</td> <td>80 m³</td> <td>1</td> <td>80 m³</td> <td>Atm</td> <td>Amb</td> </tr> <tr> <td>3</td> <td>Catalyst</td> <td>Solid</td> <td>Drums</td> <td>100 Kgs</td> <td>10</td> <td>1000 kgs</td> <td>Atm</td> <td>Amb</td> </tr> </tbody> </table>	Sr. No.	Chemical	State	Means of Storage	Capacity of Storage Means	No. of Storage means	Total Capacity	Pressure	Temp.	Raw Material									1	Acetic acid	Liquid	Tank	500 m ³	1	500 m ³	Atm	Amb	2	Acetic anhydride	Liquid	Tank	80 m ³	1	80 m ³	Atm	Amb	3	Catalyst	Solid	Drums	100 Kgs	10	1000 kgs	Atm	Amb
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1	MCA	Solu tion	Ta nk	160 m3	1	160 m3	At m	Amb																					
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xi	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.	<p data-bbox="662 1753 799 1789">Complied.</p> <p data-bbox="662 1794 1501 1964">No process organic residue spent carbon generated. For ETP sludge and MEE salt we have also taken membership of a common facility approved by GPCB; apart from using Atul Ltd.'s own TSDF. Membership with Detox India (Safe Enviro Pvt Ltd) is attached</p>																											

Sr. No.	Condition	Compliance Status
		<p>for your ready reference.</p> <div style="text-align: center;">  </div> <p>Details for hazardous waste generation & Disposal is given in specific condition (i).</p>
xii	<p>The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste;(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c)Use of automated filling to minimize spillage. (d) Use of close feed system into batch reactors. (e) Venting equipment through vapors recovery system. (f) Use of high-pressure hoses for equipment through vapors recovery system. (g)Use of high-pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>Noted & complied.</p> <p>We are committed to minimizing waste generation. Following steps are taken for same:</p> <p>a) Metering and controlling quantities of active ingredients to minimize waste. (b) Use of automated filling to minimize spillage. (d) Use of a closed feed system.</p> <div style="text-align: center;">  </div>

Sr. No.	Condition	Compliance Status
		 <p>(e) Venting equipment through vapor recovery system. (f) Use of high-pressure hoses for equipment through vapor recovery system. (g) Use of high-pressure hoses for equipment clearing to reduce wastewater generation</p>
xiii	<p>As proposed, a green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along roadsides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the state forest department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 33% out of the total project area.</p>	<p>Complied. Anaven has already developed greenbelt in an area of 9.8% i.e. 647 sqm out of total area of the project. An additional 24% i.e. 1594 greenbelt is developed at Atul village. Photographs are provided in specific condition no. i</p>
Xiv	<p>All the commitments made during public hearings shall be implemented in a timely manner. Preference shall be given to local villagers (70-80%) for employment in the unit.</p>	<p>Complied. The concern of people was regarding local employment and proper mitigation measures to control air, water pollution and hazardous waste. Status: 1. Local employment: We give preference in employment to the local people based on educational qualification and experience. Currently we have 88 % local employment. 2. Mitigations measures: <ul style="list-style-type: none"> • Water pollution: Our unit is ZLD, hence there is no discharge of effluent. </p>

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status
		<ul style="list-style-type: none"> • Air pollution: There is only one DG set which is operated during power failure only. Process vents are provided with proper air pollution control equipment and automatic process control interlocks with an online continuous emission monitoring system. • Hazardous Waste: Hazardous waste is disposed off as per the prevailing rules and authorization. <p>Detailed action taken report on public hearing points was already submitted with last EC compliance report submission.</p>
xv	<p>As proposed Rs.3.31 crores shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including drinking water facility/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.</p>	<p>Noted and compliance assured. Please see Annexure -2</p>
Xvi	<p>For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.</p>	<p>Complied. DG set of 500 kVA is used as stand by during power failure. Stack height provided as per CPCB norms. Acoustic enclosure is provided to DG set for controlling the noise pollution.</p> <div style="display: flex; justify-content: space-around;">   </div>
Xvii	<p>The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.</p>	<p>Complied. We have taken concrete steps for protection of possible fire hazards during the manufacturing process in material handling. Details of our Firefighting system is attached as Annexure 3.</p>

Sr. No.	Condition	Compliance Status
xviii	<p>A continuous online (24*7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.</p>	<p>Complied. OCEMS installation work is installed. The desired web camera and flow meters for effluent installed. Photographs are attached as Annexure 4.</p> <p>Our unit is ZLD. The desired web camera with night vision capability and flow meters in the channel drain carrying effluent within the premises installed.</p> <p>Photograph of night vision camera installed in ZLD unit.</p> <div style="display: flex; justify-content: space-around;">   </div>
xix	<p>Project proponent has to do the monitoring within the zone of influence (within 2 km, West, SW, and east direction) of the plant boundary in downwind directions. The results shall be submitted in six-monthly EC compliance report to the RO-MoEFCC.</p>	<p>Complied. We are regularly doing Ambient air monitoring monitoring NABL approved third party. There is no time that result exceed the limit prescribed in valid CCA</p> <p>We have started measuring ambient air monitoring as suggested. We have started monitoring AAQM at the following stations.</p> <ol style="list-style-type: none"> 1. At site: Near Main gate 2. West site of plant: At opposite Shed D 3. SW of plant: At Haria water tank 4. East site of plant: At 66 KV substation. <p>AAQM results is attached as Annexure - 5</p>
B	General Condition	
i	<p>No further expansion or modification in the plant, other than mentioned in the EIA notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest</p>	<p>Noted.</p>

Sr. No.	Condition	Compliance Status																											
	and Climate change/SEIAA, as applicable. In case of deviations or alternations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to access the adequacy of conditions imposed and to add additional environmental protection measures required, if any.																												
ii	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	<p>Complied. We have installed LED lights in and around plant area.</p> 																											
iii	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<p>Complied. Adequate noise control measures like acoustic hoods, silencers, enclosures etc. provided on all sources of noise generation. We regularly monitor ambient noise level, and it is found within the norms. Noise results is attached as: Annexure 6</p> <table border="1" data-bbox="662 1576 1485 1980"> <thead> <tr> <th rowspan="2">Sr. No.</th> <th rowspan="2">Location</th> <th rowspan="2">GPCB Limits</th> <th colspan="3">Value for the Period April 23 – September 2023 (Day)</th> </tr> <tr> <th>Min.</th> <th>Max.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MCA Plant</td> <td>75</td> <td>65.9</td> <td>70.2</td> <td>68.05</td> </tr> <tr> <td>2</td> <td>Cooling tower pump area ground floor</td> <td>75</td> <td>64.1</td> <td>66.9</td> <td>65.5</td> </tr> <tr> <td>3</td> <td>Flaker ground floor</td> <td>75</td> <td>62.2</td> <td>65.3</td> <td>63.75</td> </tr> </tbody> </table>	Sr. No.	Location	GPCB Limits	Value for the Period April 23 – September 2023 (Day)			Min.	Max.	Avg.	1	MCA Plant	75	65.9	70.2	68.05	2	Cooling tower pump area ground floor	75	64.1	66.9	65.5	3	Flaker ground floor	75	62.2	65.3	63.75
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1	MCA Plant	75	65.9	70.2	68.05																								
2	Cooling tower pump area ground floor	75	64.1	66.9	65.5																								
3	Flaker ground floor	75	62.2	65.3	63.75																								

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status					
		S No.	Location	GPCB Limits	Value for the Period April 23 – September 2023 (Night)		
				Min.	Max.	Avg.	
		4	Flaker first floor	75	60.1	63.4	61.75
		5	Flaker second floor	75	59.1	63.8	61.45
		1	MCA Plant	70	57.7	59.3	58.5
		2	Cooling tower pump area ground floor	70	57.4	59.7	58.55
		3	Flaker ground floor	70	54.3	56.4	55.35
		4	Flaker first floor	70	50.1	52.9	51.5
		5	Flaker second floor	70	50.9	54.6	52.75
iv	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Noted and will be complied with as committed. Details given in above specific condition (xv).					

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status																		
V	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate change as the state government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.</p>	<p>Complied. Total investment under EMS during reporting period: 4.0 lacs Recurring cost: A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities.</p> <p>Total expenditure for the report period is given in below table:</p> <table border="1" data-bbox="662 627 1516 1070"> <thead> <tr> <th data-bbox="662 627 758 779">Sr. No.</th> <th data-bbox="758 627 1189 779">Parameter</th> <th data-bbox="1189 627 1516 779">Recurring cost (Rs. In lacs) for the report period (April 23 to September 2023)</th> </tr> </thead> <tbody> <tr> <td data-bbox="662 779 758 862">1</td> <td data-bbox="758 779 1189 862">Air Pollution control management</td> <td data-bbox="1189 779 1516 862">102</td> </tr> <tr> <td data-bbox="662 862 758 907">2</td> <td data-bbox="758 862 1189 907">Wastewater pollution control</td> <td data-bbox="1189 862 1516 907">107.25</td> </tr> <tr> <td data-bbox="662 907 758 985">3</td> <td data-bbox="758 907 1189 985">Environment monitoring and management</td> <td data-bbox="1189 907 1516 985">1.43</td> </tr> <tr> <td data-bbox="662 985 758 1025">4</td> <td data-bbox="758 985 1189 1025">Solid waste disposal</td> <td data-bbox="1189 985 1516 1025">4.14</td> </tr> <tr> <td colspan="2" data-bbox="662 1025 1189 1070" style="text-align: center;">Total</td> <td data-bbox="1189 1025 1516 1070" style="text-align: center;">214.82</td> </tr> </tbody> </table>	Sr. No.	Parameter	Recurring cost (Rs. In lacs) for the report period (April 23 to September 2023)	1	Air Pollution control management	102	2	Wastewater pollution control	107.25	3	Environment monitoring and management	1.43	4	Solid waste disposal	4.14	Total		214.82
Sr. No.	Parameter	Recurring cost (Rs. In lacs) for the report period (April 23 to September 2023)																		
1	Air Pollution control management	102																		
2	Wastewater pollution control	107.25																		
3	Environment monitoring and management	1.43																		
4	Solid waste disposal	4.14																		
Total		214.82																		
vi	<p>A copy of the clearance letter shall be sent by the project proponent to concern panchayat, Zilla parishad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	<p>Complied. The details mentioned in stated condition have been circulated sent to concern panchayat, Zilla parishad/Municipal Corporation while processing the proposal.</p>																		
vii	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective regional office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.</p>	<p>Complied. We regularly submit six monthly compliance report and also uploading on company's web site.</p>																		

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status
Viii	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective regional offices of MoEF & CC by e-mail.	<p>Complied. Environmental statement for FY: 2022-2023 has been submitted to GPCB on September 20, 2023.</p> <p>The copy of the same is attached as Annexure 7.</p>
Ix	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/committee and may also be seen at Website of the Ministry and at http://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned regional office of the ministry.	<p>Complied. We have published the advertisement in vernacular language newspaper on August 15, 2020, and in English on August 17, 2020. We have informed about this to your good office vide our letter dated September 03, 2020.</p>
x	The project authorities 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 and the date of start of the project.	<p>Noted.</p>
Xi	This environmental clearance is granted subject to final outcome of Hon'ble suprema court of India, Hon'ble High court, Hon'ble NGT and any other court of law, if any, as any be applicable to this project.	<p>Noted.</p>

EC No. F. No. J-11011/286/2018-IA II(I)

Period: April 2023 to September 2023

Sr. No.	Condition	Compliance Status
16	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
17	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
18	Any appeal against this environmental clearance 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.
19	The above conditions will 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, The hazardous waste (Management, Handling and Transboundary Movement) Rules, 2016 and the public liability Insurance Act, 1991 read with subsequent amendments therein.	Noted.
20	This issues with the approval of the competent authority.	Noted.

Annexure -1
Results of process stack and Flue gas stack

Details of Process & flue stack									
Sr. No.	Stack Details	Parameter	Permissible limits	Obtained value					
				April 2023	May 2023	June 2023	July 2023	August 2023	September 2023
1	HCL Storage tank	HCL	20 mg/Nm ³	14.5	14.0	12.9	14.6	9.9	8.6
2	Flaker stack	HCL	20 mg/Nm ³	13.9	12.3	11.0	13.4	9.7	10.8
3	Acetic acid storage tank	Acetic acid	---	ND	ND	ND	ND	ND	ND
4	Vacuum Pump stack	HCL	20 mg/Nm ³	12.6	11.4	10.8	11.4	10.4	11.9
5	Chlorinator stack	HCL	20 mg/Nm ³	13.6	14.1	13.8	14.4	13.6	14.2
		Chlorine as Cl ₂	09 mg/Nm ³	5.3	6.4	6.0	6.6	4.6	4.3
6	Hydrogenation	HCL	20 mg/Nm ³	9.8	8.8	9.1	8.8	6.7	6.1
7	DG set stack	PM	150 mg/Nm ³	82	88	91	75	78	75
		SO ₂	100 ppm	16.5	18	19	23	26	28
		NO _x	50 ppm	33.9	41.3	40.1	32.7	29.4	30.9

Annexure -2

CER activity for the year 2023-24

List of activities identified for the year 23-24:

CER 2023-24						
Sr. No.	Name of the Activity	Qty.	Sectors Area	Village	Estimated cost (₹lakh)	Remarks
1	Model Anganwadi Project 2023-24	6	Education	Anjlav, Balda, Pardi, Pariya, Kanjanhari	32	civil work, Painitng, Art Painting and Structural work.
2	RCC road from Atul gram Panchayat to Atul Foundation Health Center – Juna Nayakwad	1	Infrastructure	Atul	31.94
3	Rainwater Harvesting	15	Conservation	Nearby villages	15	Survey completed and Estimates prepared
				Total	78.94	

Annexure -3 Details of our Firefighting system

Details of fire extinguisher installed in various locations are as below:

Fire extinguisher type	Qty.
ABC - 6 Kg	72
ABC - 50 Kg	5
CO2 - 4.5 Kg	06
CO2 - 6.5 Kg	10



FIRE FIGHTING AND OTHER ARRANGEMENTS FOR OFF-SITE EMERGENCY

2. AVAILABILITY OF FIRE FIGHTING FACILITES:

HYDRANT SYSTEM:

Detailed Hydrant System drawing, pipeline layout, hydrant post locations along with isolation valve positions displayed in all ECC as well as fire stations and plant control rooms.

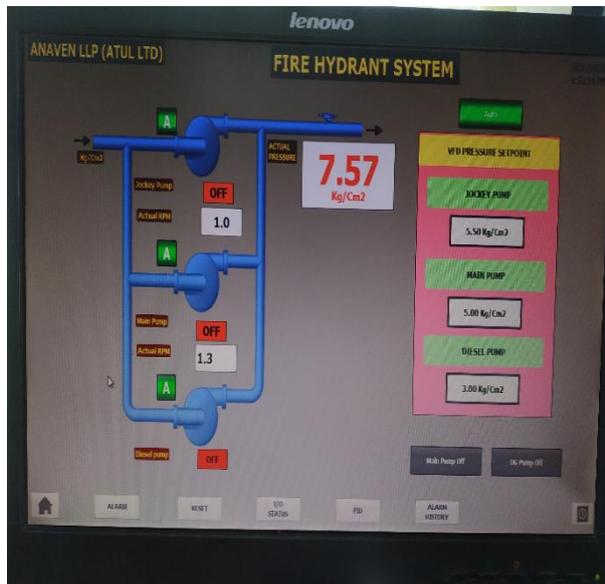
1) Anaven

Fire water pumps	:	273 KL/hr. -1 Nos. (Elect)
Jockey pump	:	10.8 KL/hr. -1 Nos.
Diesel Driven Fire Pump	:	273 KL/hr. -1 Nos.

2) East Side Fire water reservoir (Atul water Reservoir): 46000KL

Fire water pumps	:	410 KL/hr. -2 Nos. (Elect)
Jockey pump (Atul Water Reservoir)	:	30 KL/hr. -2 Nos.
Diesel Driven Fire Pump	:	410 KL/hr. -2 Nos.

Fire pumps operation / status indication panel provided at on automatic with audio / visual alarm



3. FIRE HYDRANT NETWORK DETAILS:

Single Hydrant points	: 15 Nos
Double Hydrant points	: 00 Nos
Riser fire escape hydrant points	: 24 Nos.
High velocity long range monitor:	05 Nos.
Hose boxes (FEH)	: 39 Nos.
Hose pipes: 15 Mts.	: 78 Nos.
Hose pipes 7.5 Mts.	: 00 Nos.
Branch pipes (Jet types)	: 10 Nos.
Branch pipes (Triple purpose)	: 39 Nos.
Foam making branch pipes	: 03 Nos.



4. FIRE TENDER:

Three fire tenders are available at Atul site.

Details are as under

One fire tender having 1800ltr water capacity,

2nd Multipurpose fire tender having 5000-liter water and 500ltr foam.

3rd Multipurpose fire tender having facility of 500 kg DCP, 500ltr foam & 45000ltr water capacity.

5. FIRE DETECTION SYSTEM:

Automatic detection of fire is essential especially for high hazard, sensitive and unmanned areas. We have provided an automatic fire detection system which includes heat and smoke detector to give audio / visual alarm / signal locally as well as in the permanently manned area. This in turn helps in early detection of fire and to start firefighting activity at an early stage.

Area	Method of Detection	Warning indication
Anaven Admin	Smoke detector	On fire alarm panel
MCA Control room	Smoke detector	On fire alarm panel



8.1.4 FIRE ALARM:

A combined fire alarm system is available (conventional and addressable) with manual call points and detectors provided in the entire plant, on activation of MCP, siren will blow as mentioned below pattern.

SR.NO.	PLANT	Nos. of MCP
1	MCA	12
2	Flaker	12
3	Admin	5
4	MCC	6
5	Utility	2
6	Tank farm	2
7	WWTP	3

The fire alarm system is tested every Monday at 09:00 am from the plant in rotation manner and record is maintained.



Annexure- 4

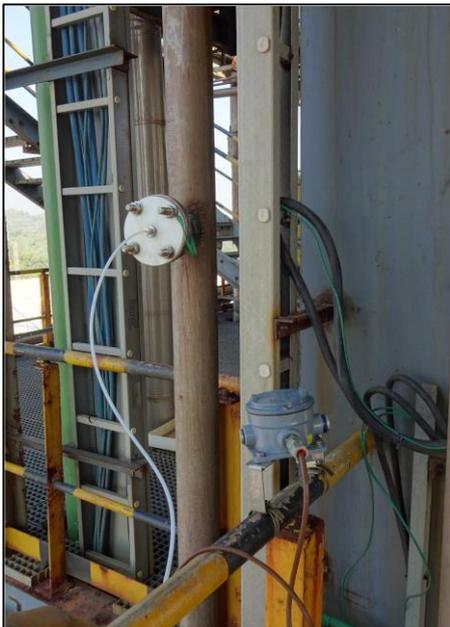
Photograph of OCEMS (Installed)



OCEMS Panel



Cylinder



Tapping @Hydrogenation



Tapping @Chlorination

Annexure -5
AAQM Report

Station	Parameter	Limit µg/NM ³	April 2023	May 2023	June 2023	July 2023	August 2023	September 2023
66 KV	PM _{2.5}	60	50	49	26	22	26	27
	PM ₁₀	100	59	82	50	48	58	60
	SO ₂	80	24.4	18.4	13.3	15.7	19.7	20.7
	NO ₂	80	30.7	22.9	18.2	26.5	29.1	30.4
Opposite Shed -D	PM _{2.5}	60	32.4	51.7	32.6	32.9	32.8	31.9
	PM ₁₀	100	52.3	89.6	55.5	53.6	60.8	60.8
	SO ₂	80	23.9	24.6	16.7	20.7	19.3	16.9
	NO ₂	80	30.5	30.5	22.2	29.7	28.9	29.8
Haria water tank	PM _{2.5}	60	32.6	51.3	29.4	30.6	35.6	30.8
	PM ₁₀	100	56.6	84.6	52.6	55.9	57.1	52.9
	SO ₂	80	30.2	23.6	17.1	17.8	18.1	18.3
	NO ₂	80	26.6	29.8	20.3	24.1	29.8	27.9
Near Main Gate	PM _{2.5}	100	60.8	77	72	63	65	68
	PM ₁₀	60	31	41	39	32	28	26
	SO ₂	80	23.6	19.3	18.5	23.4	16.7	14.8
	NO ₂	80	19.4	26.1	25.8	21.4	26.8	29.6

Annexure – 6

Noise Report

Sr. No.	Location	Noise Level, dBA												Permissible Limits, dBA
		April 2023		May 2023		June 2023		July 2023		August 2023		September 2023		
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	
1	MCA plant ground floor	70.2	59.3	69.6	58.3	68.0	57.7	68.9	58.9	65.9	57.8	66.9	58.3	75 Day 70 Night
2	Cooling tower pump area ground floor	66.9	58.7	65.0	59.7	64.1	58.0	65.4	57.4	63.8	58.8	64.3	59.6	75 Day 70 Night
3	Flaker ground floor	62.9	56.4	63.3	55.1	62.2	54.3	63.8	55.1	65.3	54.3	64.8	55.9	75 Day 70 Night
4	Flaker first floor	63.4	51.2	62.7	52.9	62.0	51.6	60.1	52.7	61.7	51.7	62.9	50.1	75 Day 70 Night
5	Flaker second floor	61.1	53.6	63.8	54.6	61.9	53.3	59.8	51.9	60.8	50.9	59.1	51.3	75 Day 70 Night

Annexure – 7

Environmental Statement: Form V (FY : 2022-2023)

Nouryon

Anaven

Anaven LLP

Atul 396 020, Gujarat, India
contact@anaven.co.in | (+91 2632) 230000

Atul

Anaven | GPCB | FormV
ID: 60407
September 20, 2023

To,
Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10 – A
GANDHINAGAR - 382 010

Subject: Submission of Form V

Dear Sir,
We are enclosing herewith duly filled form – V for the financial year ending March 31, 2023.

Kindly receive the same.

Thanking you,
Yours faithfully,
For Anaven LLP,



Authorized signatory
C.C.
Regional officer,
GPCB, Vapi (Dist: Valsad)

ANAVEN LLP

Registered office: Survey No. 33/P1, Atul, Valsad, 396 020, Gujarat, India
Gujarat, India LLPIN: AAJ-4229

[Form V]
(See Rule 14)
Environmental Statement for the financial year ending the 31st March 2023

Part - A

(i)	Name and address of the owner/occupier of the industry operation or process	:	Mr. Gopi Kannan Rengachari Occupier, Anaven LLP Survey No.33/P1 P.O. Atul -396020 District -Valsad Gujarat
(ii)	Industry category Primary (STC code) Secondary (STC code)	:	Red- Chemical Manufacturing Industry
(iii)	Production Capacity	:	Please refer Annexure - 1
(iv)	Year of establishment	:	2017
(v)	Date of last environmental Statement submitted	:	September 15, 2022

Part - B

Water and Raw Material Consumption

(1) Water consumption m³/day

Process : 72 kl/day
Cooling : 97 kl/day
Domestic : 8 kl/day

Sr. No.	Name of products	Process water consumption per unit of product output	
		During the previous financial year (1)	During the current financial year (2)
1.	Monochloro Acetic Acid (MCA)	3.44 KL / MT	3.19 KL / MT

(2) Raw material consumption

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
Please refer Annexure - 2			

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

Part - C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Industrial waste water is being treated into the ETP followed by RO and final treatment by MEE. Hence, unit is maintaining zero liquid discharge system (ZLD).		NIL
b) Air	Cl ₂ : 2.825 mg/NM ³ (Avg.) HCl: 8.075 mg/NM ³ (Avg.)		

Part - D

Hazardous Wastes

[as specified under Hazardous Wastes (Management & Handling) Rules, 2016 and amendment thereof]

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year	During the current Financial year
From process	20155.31	26755
From pollution control facilities	113	160.42

Part - E

Solid Wastes

Solid Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
(a) From process (Fly Ash)	Not Applicable	Not Applicable
(b) From pollution control facility		
(c) (1) Quantity recycled or re-utilized within the unit		
(2) Sold		
(3) Disposed		

Part - F

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

Description of waste	Physical form	Biodegradability	Mode of Disposal
Spent Catalyst	Solid	--	Selling to Regenerator
ETP Sludge	Solid	Biodegradable	TSDf of Atul Ltd. Or Send to authorized TSDf sites
Liners/bags Used Containers Drums/HDPE Carboys	Solid	Non-Biodegradable	Selling to authorized registered recycler.
Used Oil	Liquid	Biodegradable	Selling to registered recycler
Hydrochloric Acid*	Liquid	Non-Biodegradable	Selling to those units who having permission of Rule 9.
Salt From MEE/MVR	Solid	Non-Biodegradable	TSDf of Atul Ltd.

Part – G

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

Water conservation:

Rainwater harvesting system is developed in the project area and collected water is being used in the process | utilities of the unit.

Energy conservation:

We have a set-up timer in LED light which operates at desired timeline (Evening-On & morning -Off).

Part – H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

- Industrial waste water is being treated into the ETP followed by RO and final treatment by MEE. Hence, unit is maintaining zero liquid discharge system (ZLD).
- For ZLD, the desired web camera with night vision capability and flow meters in the channel | drain carrying effluent within the premises installed.
- Details of Investment and/or recurring cost towards Environment Protection for the year 2022-2023;

Sr. No.	Parameter	Recurring Cost per annum (Rs. in lacs)
1	Environmental monitoring and management	2.87

Part – I

Any other particulars for improving the quality of the environment.

Please refer Annexure 3

Annexure – 1

Product List

Serial No.	Name of products	Production Capacity (MT/Annum)
1	Monochloro Acetic Acid (MCA)	32,000
2	HE- dichloro and trichloro acetic acid	448

Annexure: 2

Details of raw material consumption

Sr No.	Name of Raw Materials	FY: 2022-23
1	Acetic acid	12193311 Kg
2	Acetic anhydride	892372 Kg
3	Liquid chlorine	16453552 Kg
4	Hydrogen	1427575 Nm3
5	Caustic soda (32%)	421428 Kg

Annexure: 3

Details of Actions taken for improvement of quality of Environment and measures taken for pollution abatement and resource conservation.

We are committed to improve quality of Environment and related following actions are taken:

- 1) Unit has installed online continuous emission monitoring system.
- 2) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
- 3) Use of automated filling to minimize spillage.
- 4) Metering and control of quantities of active ingredients to minimize waste.
- 5) We have installed LED lights in and around plant area.
- 6) Use of close feed system into batch reactors.
- 7) Venting equipment through vapour recovery system