“Six Monthly Compliance Report of Environmental Clearance For”

M/s. Grasim Industries Limited (Chemical Division)

Former Name M/s. Aditya Birla Epoxy (India) Ltd.

Name Amended Vide Letter No. – SEIAA/GUJ/EC/5(f)/2146/2022 **Dated 20th September 2022**

Submitted to: -	**Submitted by: -**
Ministry of Environment Forest & Climate Change, (WR Office) Bhopal GPCB (HO) Gandhinagar, Gujarat. ROOM no.407, Aranya bhawan, Near CH-3 circle, sector 10A, Gandhinagar- 382010, Gujarat.	**Grasim Industries Limited** (Unit: - Chemical Division) PCB ID: - 38506 Plot No. 1 GIDC Vilayat Industrial Estate, PO-Vilayat, Taluka-Vagra, Dist.: - Bharuch-392012, Gujarat, India

Period: -01.10.2024 to 31.03.2025

Compliance Status Report for "Environmental Clearance" Accorded by the MOEF
For
Grasim Industries Limited (Chemical Division), Vilayat

List of Annexure

Sr. No.	Title	Annexure No.
1	PESO License	Annexure 1
2	Fire Hydrant system-plant Layout	Annexure 2
3	Third party Ambient Air Quality analysis report	Annexure 3
4	Third party Stack analysis report	Annexure 4
5	Form No: 37	Annexure 5
6	Third party Ambient Air Quality analysis report	Annexure 6
7	Hazardous Waste disposal membership certificate	Annexure 7, 7.1,7.2,7.3,7.4
8	PLI Policy	Annexure 8
8	Risk Assessment Study report	Annexure-9
10	Various Hospital Agreement	Annexure 10
11	PPE Matrix	Annexure 11
12	Sample report for pre-employment medical check-up	Annexure 12
13	Third party Noise analysis report	Annexure 13
14	Risk mitigation measures as per EIA	Annexure 14
15	Submission of News Paper for EC	Annexure 15

Sr. No	EC Point No.	Description	Compliance
	A	**Conditions**	
	A.1	**Specific Conditions**	
1.		Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no. B-29016104106PC1-115401 dated 0510212014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time basis. [For Small/Large/Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable.	We installed the CEMS in our thermic fluid heater chimney to monitoring the relative parameters. We install Online TOC meter at our ETP to monitoring the Final treated water discharge.
		Figure no:1   	
2.		There shall be no use of solvents for the manufacturing of proposed products.	Complied
3.		Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines, LDAR Logbooks shall be maintained.	Complied. We maintained the LDAR program and arrange the meeting once in week and discussion regarding all the observation regarding LDAR.

			We correctively take the actions and maintainace for the leakages.
4.		The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E). November, 2009 shall be complied with	Complied.
5.		National Emission Standards for Organic Chemicals Manufacturing industry issued by the Ministry vide G. S., dated21/07/2010 and amended from time to time shall be followed	Complied
6.		Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants and shall carry out the project development in accordance & consistence with the same.	Complied
7.		All measures shall be taken to avoid soil and ground water contamination within premises.	Complied. We have proper storm water drains. we have chemical storage area with proper dyke walls to prevent the land contamination. We have provided appropriate controls to avoid any leakages at all the storage tanks. In that we have provided Bund/dyke walls and close handling for chemical storage tanks for hazardous chemicals.
8.		**SAFETY & HEALTH:**	
	A	PP shall obtain PESO permission for the storage and handling of hazardous chemicals.	We have storage and use of hazardous chemicals which has minimized to the extent possible and all necessary precaution were taken to mitigate the risk generated out of it. Storage of hazardous chemicals are in multiple small capacity tanks/containers instead of one single large capacity tank of safety purpose. PESO License attached as an **Annexure-1.**

<table>
<tr><td></td><td></td><td colspan="2"><u>Table No:1</u>
<u>Capacity of Tanks</u>
<table><tr><th>Sr no.</th><th>Name of Tank</th><th>Storage Capacity</th><th>Storage condition</th></tr><tr><td>1.</td><td>Toluene</td><td>50 KL</td><td>Under Ground Tank</td></tr><tr><td>2.</td><td>Xylene</td><td>50 KL</td><td>Under Ground Tank</td></tr><tr><td>3.</td><td>ECH</td><td>500 m^3 * 4</td><td>Above Ground Tank</td></tr></table></td></tr>
<tr><td></td><td>B</td><td>PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.</td><td>We have our OHC within our premises as per the Gujrat factories Act 68-U.</td></tr>
<tr><td></td><td></td><td colspan="2"><u>Figure no:2</u>
<u>OHC Centre</u>
   </td></tr>
<tr><td></td><td>C</td><td>PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.</td><td>Complied.</td></tr>
<tr><td></td><td>D</td><td>Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.</td><td>We have Emergency Management Plan with detail Roles & Responsibilities. Made good arrangement for Communication, Emergency Control Centres, Safe Assembly Points, Fire Tender, Emergency Response Team, Mock Drills are conducted regularly.</td></tr>
<tr><td></td><td>E</td><td>PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.</td><td>Complied.
We carried out the mock drill as per the regular schedules and display proper excavation plan on the manufacturing area in case of emergency. Also, we provided the MSTC (Mandatory safety training)</td></tr>
</table>

<table>
<tr><td></td><td></td><td></td><td>training to new and old employees for the refresher training.
We have dedicated ERT team in the case of emergency.</td></tr>
<tr><td></td><td></td><td colspan="2">
Table No:2
<table>
<tr><th colspan="5">Mock Drill/Table Top Drill- Worst case Emergency Scenario Calendar
(period for Oct-24 to Mar-25)</th></tr>
<tr><th>Sr. No</th><th>Proposed date</th><th>Emergency Scenario Identified-Worst case</th><th>Type of Emergency</th><th>Emergency Scenario Analysis</th></tr>
<tr><td>1</td><td>June-24</td><td>In ECH tank farm, T-9001 D Suction line nozzle leaked and tank having 350 m3 volumes and leak is 100 mm size. Material got spread in dyke wall. Material travel to towards secondary containment pit but due to pit isolation valve closed and storm water drain valve open, Material travel into drain. Meanwhile ECH VOC actuated and alarm received at DCS control room. Suddenly spark received at caught fire in storm water. Fire travel to dyke wall and caught fire in Tank T-9001 D.</td><td>Leakage & Fire</td><td>Emergency contro plan & Worst-case Scenario</td></tr>
<tr><td>2</td><td>July-24</td><td>There was monsoon started, there was heavy rain in Gujarat area, Due to continuous rain, Bhukhi khadi level observed increase hence plant storm water drain level also increase and flood condition happen inside plant.</td><td>Natural Calamities</td><td>Emergency Worst Case scenario</td></tr>
</table>
</td></tr>
<tr><td></td><td>F</td><td>PP shall install adequate fire hydrant system with foam trolley attachment within premises and separate storage of water for the same shall be ensured by PP</td><td>Complied.
We have installed adequate fire hydrant system with trolley attachment within the premises and separate storage of water.
We had installed well designed fire hydrant system - as per the prevailing standards installed.
Line Size is - Main Header is 6” inch and provided Taping are 3” inch. Please find the Annexure:2 for detailed fire layout system plan.</td></tr>
<tr><td></td><td></td><td colspan="2"><u>Figure no:3</u>
<u>Fire hydrant system</u></td></tr>
</table>

			
	G	PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority.	Complied. We take all the necessary steps for control of storage hazards within the remises ensuring incompatibility of storage raw materials and ensure the storage keeping safe distance as per the prevailing of the concerned authority.
	H	PP shall take all the necessary steps for storage hazards within premises to ensure that no any harm is caused to any worker/employee or labour within premises.	Complied We take all the necessary steps for storage hazard within premises to ensure that no any harm is caused to any worker/employee or labour within premises.
	I	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	Complied Flame proof fittings provided in the plant premises.
	J	Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	Complied We never store the drum/barrels/carboys of incompatible materials/chemicals together.

<table>
<tr><td></td><td>K</td><td>Unit shall provide effective fire hydrants, water monitors & foam application system at solvent storage area and unit shall provide adequate safety system such as water sprinklers, water curtains, foam pouring system etc. to restrict cascade fire emergency in 99 storage area.</td><td>Complied
We provided the fire hydrant system, water monitors & foams at solvent storage area.</td></tr>
<tr><td></td><td>L</td><td>Unit shall provide effective isolation for Process area and storage of hazardous chemicals.</td><td>Complied
Provided effective isolation for process area and storage of hazardous chemicals.</td></tr>
<tr><td></td><td>A.2</td><td>WATER:</td><td></td></tr>
<tr><td>9.</td><td></td><td>Total water requirement for the project shall not exceed 5759.05 KLD. Unit shall reuse 1714 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 4045.05 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority for withdrawal of water shall be obtained.</td><td>
Total water consumption KLD Table No.3
<table>
<tr><td>Specified limit</td><td colspan="3">(industrial-2246 KLD & Domestic-122.45 Gardening-110=2478.45 KLD)</td></tr>
<tr><td>Month</td><td>Avg</td><td>Min KLD</td><td>Max KLD</td></tr>
<tr><td>Oct-24</td><td>484</td><td>631</td><td>137</td></tr>
<tr><td>Nov-24</td><td>527</td><td>712</td><td>438</td></tr>
<tr><td>Dec-24</td><td>440</td><td>532</td><td>267</td></tr>
<tr><td>Jan-25</td><td>467</td><td>583</td><td>375</td></tr>
<tr><td>Feb-25</td><td>486</td><td>677</td><td>197</td></tr>
<tr><td>Mar-25</td><td>620</td><td>721</td><td>489</td></tr>
<tr><td>Avg</td><td>504</td><td>643</td><td>317</td></tr>
</table>
</td></tr>
<tr><td>10.</td><td></td><td>The industrial effluent generation from the project shall not exceed 2099.3 KLD.</td><td>
Total Waste water Generation KLD Table No.4
<table>
<tr><td>Specified limit</td><td colspan="3">(1214.66= Domestic 105.36+ industrial 1109.3)</td></tr>
<tr><td>Month</td><td>Avg</td><td>Min KLD</td><td>Max KLD</td></tr>
<tr><td>Oct-24</td><td>532</td><td>200.0</td><td>637.0</td></tr>
<tr><td>Nov-24</td><td>552.00</td><td>471.0</td><td>638.0</td></tr>
</table>
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<table>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td>Dec-24</td><td>491.9</td><td>187.0</td><td>613.0</td></tr>
<tr><td>Jan-25</td><td>527.10</td><td>387.0</td><td>626.0</td></tr>
<tr><td>Feb-25</td><td>458.39</td><td>111.0</td><td>646.0</td></tr>
<tr><td>Mar-25</td><td>557.80</td><td>370.0</td><td>627.0</td></tr>
<tr><td>Avg</td><td>517.438</td><td>305.2</td><td>630</td></tr>
</table>
</td></tr>
<tr><td>11.</td><td></td><td>Management of industrial effluent shall be as under:

➢ industrial Effluent from Epoxy plant, 1192 KLD (1087 KLD lnd + 195 KLD Dom
➢ Low concentration effluent 872 KLD (767 KLD lnd. and 105 KLD Domestic sewage) shall be treated in adequate ETP-1 consists of primary, secondary and tertiary treatment units along with 220 KLD waste water from MEE of epoxy plant. 1002 KLD treated effluent shall be discharged into Vilayat -Dahej underground Pipeline leading to deep sea. 90 KLD treated effluent from ETP shall be reused back in process for pump, valves and etc.
➢ 320 KLD high concentration effluent generated from process shall be evaporated in MEE cum pusher type centrifuge. 100 KLD MEE condensate shall be reused back in cooling Purpose.
➢ industrial Effluent from Epichlorohydrin and CPVC Plant (990 KLD i.e. 640 KLD industrial effluent shall be passed through RO plant.325 KLD RO permeate shall be reused back in
➢ Process while 315 KLD RO reject shall be evaporated in in-house MEE cum ATFD. 285 KLD MEE condensate shall be reused back in process.
➢ 200 KLD effluent from Epichlorohydrin plant shall be incinerated in own in-house incinerator and: incinerator shall be operated as per CPCB guidelines and printed logbook maintained for record of the same.
➢ 150 KLD effluent mainly brine solution from, Epichlorohydrin plant shall be recovered and directly reuse in Caustic plant.
➢ After proposed expansion, 22.3 kl/day generated from the manufacturing process shall be sent to the existing Effluent Treatment Plant, after treatment the said effluent shall be disposed of in deep sea through GIDC pipeline.
➢ Treated waste water shall be discharge to into Vilayat -Dahej underground Pipeline leading to deep Sea, Jhagadia pipeline only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human Health and Environment.</td><td>Our ETP Capacity is having capacity of 842 m3/day which includes Primary treatment which consists of receiving tanks, DAF system, primary sludge collection tanks and filter press system for the dewatering of primary sludge.
LER Salt Removal Process at MEE Plant:
Wastewater is pumped from MEE process feed tank to MEE plant to recover Sodium Chloride Salt (‘NaCl’). MEE is a 4th Effect Evaporation Plant which recovers `salt from the wastewater through Pusher Centrifuge technology. After recovery of NaCl, the remaining Condensate water is collected in the Equalization tank which is equipped with powerful mixer for further processing. This treated water is transferred in to ‘Biological reactor as Ecosap-1’.
RD Salt Removal Process at SEE Plant
Wastewater is pumped from SEE process feed tank to SEE plant to recover Sodium Chloride Salt (‘NaCl’). SEE is a single Effect Evaporation Plant which recovers salt from the wastewater through ATFD (Agitator thin film dryer) technology</td></tr>
</table>

			In a secondary treatment we have Equalizations tanks for storage of effluent, Aeration Tank (Ecosap) 1 & 2 followed with clarifier 1 & 2. Collection tank for biological treated effluent. In a tertiary treatment we have Multi Grade Filter and Carbon Filter. Finally, we had final storage tank to collect the treated water. Our ETP is running regularly and efficiently to achieve the GPCB norms at the ETP outlet. Treated effluent third-party analysis reports (Epoxy) are attached as **Annexure:3**

Table No:5

Total Effluent Generation **1214.66 (Industrial 1109.3 +Domestic 105.36) KLD**			
Month	**Average KLD**	**Min KLD**	**Max KLD**
Oct-24	532.47	200.0	637.0
Nov-24	552.00	471.0	638.0
Dec-24	491.9	187.0	613.0
Jan-25	527.10	387.0	626.0
Feb-25	458.39	111.0	646.0
Mar-25	557.80	370.0	627.0
Average	519.9	287.7	631.2

Treated effluent quality for the period of Oct-24 to Mar-25 is summarized as below in

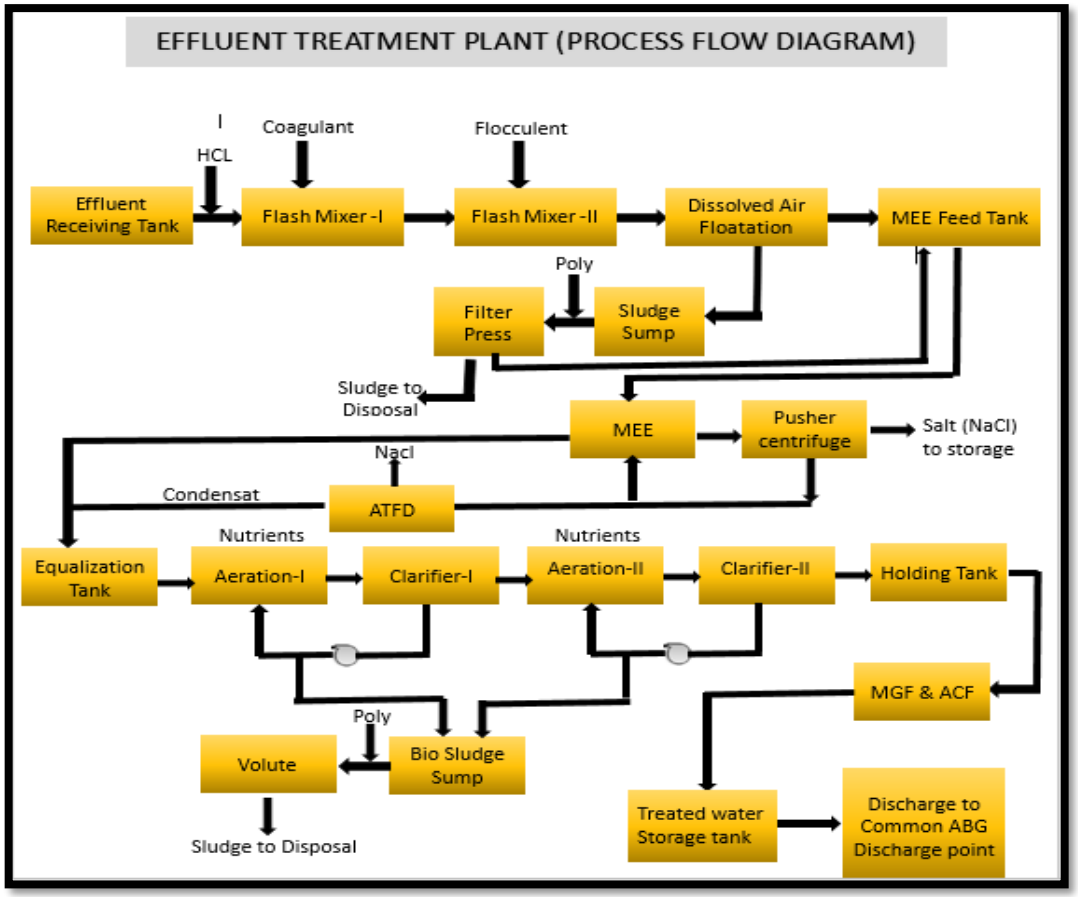
Table No. 6

Final Treated Effluent														
Month of sampling	PH	Temp	TSS	Oil& Grease	Sulphide	Amm N. as N	TKN	Total resi CL2	Hexavalent Chromium	copper	Lead	Nickle	Zinc	Cadium
Unit	-	Deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB Limit	6.0-9.0	45	100	10	5	0.2	15	5	50	50	50	1	0.2	2
24-Oct	7.34	32	12	<1	2.6	<4	<1	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1
24-Nov	7.31	29	16	<1	<0.5	<4	<1	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1
24-Dec	7.3	28	18	<1	<0.5	<4	<1	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1
25-Jan	7.26	26.1	20.3	<1	<0.5	<4	<1	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1
25-Feb	7.36	27.3	21.2	<1	<0.5	<4	<1	<0.5	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1
25-Mar	7.56	31	1.2	<1	<0.5	<4	<1	<0.5	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1
Min	7.26	26.1	1.2	0	-	-	0	0	0	-	0	0	-	-
Max	7.56	32	21.2	0	-	-	0	0	0	-	0	0	-	-
Avg	7.36	28.90	14.78	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	-

Final Treated Effluent														
Month of sampling	COD	BOD	Manganes	Iron	Phenolic compou nds	Cyanide	Flouride	Nitogen-Nitrate	Arsenic	Trivelent Chromiu m	Mercury	Selenium	Vanadium	Bio assy Test
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	
GPCB Limit	0.1	3	0.1	0.01	3	15	0.05	250	100	0.05	0.2	2	3	90% Survival of fish after 96 hours in 100% effluent
24-Oct	60.3	22.5	<0.1	<0.1	<0.01	<0.001	0.62	8.24	<0.001	<0.1	<0.0001	<0.001	<0.001	Complied
24-Nov	48.8	18.5	<0.1	<0.1	<0.01	<0.001	0.71	9.5	<0.001	<0.1	<0.0001	<0.001	<0.001	Complied
24-Dec	49.8	14.9	<0.1	<0.1	<0.01	<0.001	0.72	10.2	<0.001	<0.1	<0.0001	<0.001	<0.001	Complied
25-Jan	51.3	15.7	<0.1	<0.1	<0.01	<0.001	0.71	10.3	<0.001	<0.1	<0.0001	<0.001	<0.001	Complied
25-Feb	52.4	16.2	<0.1	<0.1	<0.01	<0.001	0.74	10.6	<0.001	<0.1	<0.0001	<0.001	<0.001	Complied
25-Mar	53.5	15.4	<0.1	<0.1	<0.01	<0.001	0.6	9.7	<0.001	<0.1	<0.0001	<0.001	<0.001	Complied
Min	-	-	-	-	-	-	-	8.24	0	-	-	-	0	-
Max	-	-	-	-	-	-	-	10.6	0	-	-	-	0	-
Avg	-	-	-	-	-	-	-	9.75667	#DIV/0!	-	-	-	#DIV/0!	-

Figure no:4
Guard / Polishing Pond

Figure no:5
PFD ETP: - Please Refer Effluent Treatment Plant PFD & Details of Equipment



12.		Domestic wastewater generation shall not exceed '109.36 KL/day for proposed project and it shall be treated in STP. It shall not be disposed of into soak pit. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.	**Table No. 7** **Domestic Waste Water Generation** Month / Average KLD / Max KLD / Min KLD

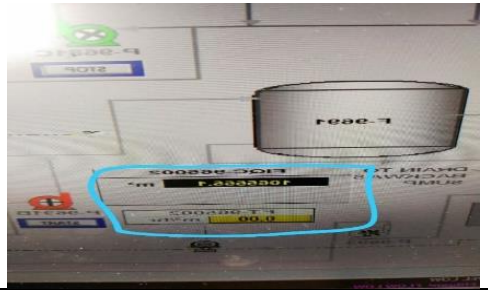
			Oct-24	51.26	12	79
			Nov-24	36.53	14	59
			Dec-24	32.03	12	54
			Jan-25	34.68	21	48
			Feb-25	33.61	18	54
			Mar-25	31.06	13	46
			Avg	36.53	15.00	56.67

13.		During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.	Complied Noted.
14.		Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	Complied Noted
15.		The unit shall provide metering facility at the inlet and outlet of ETP and maintain records for the same.	The Unit had provided the metering facility at the inlets and outlets of the ETP and maintains the records of the same. Photos of meters are shown as below

Table No:8

	Calibration date	Calibration due date	Make
Flow meter inlet	27.08.2024	22.08.2025	Endress + Hauser

Figure no:6
Flow meter Facility



16.		Proper logbooks of ETP; reuse/ recycle of treated/ untreated effluent, chemical consumption in effluent treatment; quantity & quality of treated effluent; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	We are maintaining proper logbooks of ETP operation and also showing the quantity of effluent generated. Treated effluent sent to the ETP of Grasim Cellulosic Division for final discharge into GIDC underground drain are maintained and furnished to the GPCB from time to time. In the upcoming Project the treated Domestic waste water will be re-used in Green belt/ Gardening and accordingly the details will be submitted to GPCB from time to time

No: - 9

Log Book of Effluent Generation:

Date	Other Streams											
	ISBL Tank Farm P-1 (Kl)	ISBL Tank Farm P-2 (Kl)	Pump Area (Kl)/seal cw	Ro Reject/Backwash (kl)	ECH Tank Farm (Kl)	CT Blowdown (Kl)	Sewage to T-9681 (Kl)	Condensate (Kl)	ATFD Condensate (Kl)	RD-SEE Condensate (Kl)	MEE Bleed to T-9681 (Kl)	MEE Bleed to T-9621 (kl)
Oct-24	34.65	14.58	68.87	17.13	3.03	15.16	51.26	292.55	12.52	24.1	0.1	9
Nov-24	22.37	6.93	66	22.03	1.37	14.57	36.53	341.23	13.23	27.73	3.37	8.5
Dec-24	16.77	6.71	72.42	18.77	0.84	12.1	32.03	294.39	11.71	25.58	1.55	11.06
Jan-25	16.23	7.1	53.39	23.65	1	13.94	34.68	326.42	12.39	24.35	5	6.68
Feb-25	15	4.21	69.11	22.14	0.71	19.29	33.61	249.32	12.18	26.75	6.07	5.07
Mar-25	18.35	6.48	86.13	22.97	0	12.42	31.06	340.45	11.39	26.58	2.23	14.42
Total	**279.76**	**134.7**	**876.32**	**263.42**	**16.64**	**201.15**	**402.74**	**3744.36**	**158.76**	**308.41**	**27.31**	**104.65**
Avg/day	20.562	7.668	69.320	21.115	1.158	14.580	36.528	307.393	12.237	25.848	3.053	9.122
Min.	15	4.21	53.39	17.13	0	12.1	31.06	249.32	11.39	24.1	0.1	5.07
Max.	34.65	14.58	86.13	23.65	3.03	19.29	51.26	341.23	13.23	27.73	6.07	14.42

Date	Process					Total (Kl)		
	LER (Kl)	RD (Kl)	RD TO ISBL (Kl)	Polyester (kl)	Polyamide (kl)	Others	Process	Remarks
Oct-24	229.74	38.87	2.52	0.06	0.19	532.47	269.6	802.07
Nov-24	274.33	39.03	4.3	0	0	552	317.67	869.67
Dec-24	233.81	34.06	0	0	0.26	491.87	268.23	760.1
Jan-25	260.68	34.68	0.81	0	0.1	527.1	304.83	831.93
Feb-25	233.71	42.32	2.18	0.18	0	458.39	278.39	736.79
Mar-25	261.61	42.1	3.13	0.1	0	557.8	310.37	868.17
Total	**3026**	**443.67**	**15.37**	**0.41**	**1.11**	**6413.59**	**3493.66**	**9907.25**
Avg/day	248.980	38.510	2.157	0.057	0.092	519.938	291.515	811.455
Min.	229.74	34.06	0	0	0	458.39	268.23	736.79
Max.	274.33	42.32	4.3	0.18	0.26	557.8	317.67	869.67

Details of Treated Effluent sent to Grasim Cellulosic Division for final discharge.

Table No-10

Month	Details of treated Effluent sent to Grasim cellulosic Division (Qty in Kl/month)		
	Average	Min	Max
Oct-24	511.3	171.0	884.0
Nov-24	490.3	196.0	1071.0
Dec-24	433.1	147.0	831.0
Jan-25	452.4	138.0	662.0
Feb-25	395.9	37.0	614.0
Mar-25	478.0	0.0	829.0

	A.3	**AIR**	
17.		Unit shall not exceed fuel consumption for Thermic Fluid Heater and D G Set as mentioned below:	Complied

Sr no.	Stack attached to	Stack Height (m)	Type& Quantity of Fuel	APCM	Pollutants
Existing					
1	D.G. Set (2000 KVA)	30	HSD (20 KL/Year)	Not applicable	PM SO2 NOx
2	Incinerator	36	Hydrogen-2000 Nm3/hr	As per CPCB guidelines	PM SO2 NOX HCL
Proposed					
1	D.G. Set (2000 KVA)	30	HSD (20 KL/Year)	Not Applicable	PM SO2 NOX
2	Thermic Fluid Heater (Capacity-25 Lakh Kcal)	30	Natural Gas/HSD NG-9600 NM3/day HSD- 6.6 KL/day	Not Applicable	PM SO2 NOX
Total after Expansion					
1	D.G. Set (2000 KVA)	30	HSD 20 KL/Year	Not Applicable	PM SO2 NOX
2	Incinerator	36	Hydrogen-200 Nm3/hr	As per CPCB guidelines	PM SOX NOX HCL
3	D G Set (2000 KVA)	30	HSD 20 KL/Year	Not Applicable	PM SO2 NOX
4	Thermic Fluid Heater (Capacity-25 Lakh Kcal)	30	Natural Gas/HSD NG-9600 NM3/day HSD- 6.6 KL/day	Not Applicable	PM SOX NOX

Details of D.G Stack Analysis Data

Table No:11

Name of third-party Lab: Green Circle, Inc.
Name of instrument: Stack monitoring kit
Date of calibration certificate: 14/07/2024
Due date of calibration certificate: 13/07/2025
Sampling Method: IS 5182: Part 5 :1975
Stack height: 30 meters

Months	PM (150 Mg/Nm3)	SO2 (100 ppm)	NOx (50 ppm)
Oct-24	71.4	4.5	14.2
Nov-24	64.9	2	11.9
Dec-24	63.8	2.1	10.5
Jan-25	61.7	4.3	7.8
Feb-25	62.6	4.6	7.4
Mar-25	64.2	2	10.7

18.		Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.	Complied We provide the APCM with the flue gas generation sources to achieve the GPCB Norms.
19.		Unit shall provide adequate APCM with process gas generation sources as mentioned below.	Complied The APCE is operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets. This facility is audited by the third-party auditor during the Environment audit of our Epoxy Manufacturing Plant. Third party Monitoring report is attached as **Annexure:4** Also, results are in below **Table No: 12**

Sr no.	Stack/ vent attached to	Height of the Vent (m)	Diameter of the vent (m)	Expected Emission	Air pollution control Measures (APCM)	Remarks
Proposed Process Gas Stacks						
No New process gas stacks are proposed						
Existing						
Epoxy Plant						
1	ISBL ECH Tank	30	0.15	VOC	Guard Condenser, Scrubber, PVR, Flame Arrester	Epoxy Resin Plant (ECH Vent)

		2	ISBL Toluene Tank	30	0.15	VOC	Guard Condenser, Scrubber, PVR, Flame Arrester	Liquid Epoxy Resin plant (Toluene vent)		
		3	OSBL ECH Tank	10	0.05	VOC	Scrubber, PRV, Flame Arrester	Liquid Epoxy Resin tank (ECH Vent)		
		4	PESO Toluene Tank	10	0.05	VOC	Underground tank, PVRV(Integrated flame arrestor)	Liquid EPOXY Resin Tank (Toluene Vent)		
		5	Reactive Dilutes Toluene Tank	30	0.05	VOC	Guard Condenser, PVRV, (integrated Flame Arrester)	Reactive Diluents Plant (Toluene)		
		6	Reactor	30	0.05	VOC	Guard Condenser, PVRV, (integrated Flame Arrester)	Solution cut Plant (Xylene)		
		7	Solution cut Tank	10	0.05	VOC	PVRV, (integrated Flame Arrester)	Solution cut tank farm (Xylene)		
		8	PESO Xylene Tank	10	0.05	VOC	Underground tank, PVRV (In			
		ECH Plant								

1.	HCL Vent Scrubber	14	0.15	HCL	Scrubber	Emergency vent in scrubber
CPVC Plant						
1	HCl synthesis	30	0.15	HCL	Absorption tower as an absorption media	--
2	CPVC Reactor and Degassing Vessel	12	--	CL2	Alkaline Scrubber	--
3	PVC Conveying to Silo	25	--	PM	Bag filter	--
4	PVC Conveying to Oxygen	10	--	PM	Bag filter	--
5	Degassing	35	--	PM	Bag filter	--
6	Conveying-Degassing Vessel to Hopper	25	--	PM	Bag filter	--
7	Evacuation of air	10	--	PM	Bag filter	--
8	Conveying CPVC from PVC Reactor	25	--	PM	Bag filter	--

Table no:12

Process Stack Monitoring data

Stacks	Oct-24				Nov-24			
	PM	SOX	NOX	VOC	PM	SOX	NOX	VOC

	Liquid Epoxy Resin Tank (toluene vent)	34.8	BDL	BDL	BDL	33.0	BDL	BDL	BDL
	Reactive Dilute Plant (Toluene)	37.4	BDL	BDL	0.4	42.7	BDL	BDL	0.3
	Solution Cut tank (xylene)reactor	42.8	BDL	BDL	0.4	43.1	BDL	BDL	0.2
	Solution cut tank farm (xylene) solution cut tank	43.2	BDL	BDL	BDL	43.1	BDL	BDL	BDL
	xylene tank PESO tank form	34.2	BDL	BDL	BDL	34.2	BDL	BDL	BDL
	Liquid Epoxy Resin Plant (EHC vent)-ISBL	22.4	BDL	BDL	BDL	27.0	BDL	BDL	BDL
	Liquid Epoxy Resin Plant (Toluene vent)	25.3	BDL	BDL	0.2	28.5	BDL	BDL	0.3
	Liquid Epoxy Resin Plant (EHC vent)-OSBL	38.4	BDL	BDL	0.3	36.2	BDL	BDL	0.4

Stacks	**Dec-24**				**Jan-25**			
	PM	**SOX**	**NOX**	**VOC**	**PM**	**SOX**	**NOX**	**VOC**
Liquid Epoxy Resin Tank (toluene vent)	32.7	BDL	BDL	BDL	24.0	BDL	BDL	BDL
Reactive Dilute Plant (Toluene)	42.1	BDL	BDL	0.4	25.4	BDL	BDL	0.6
Solution Cut tank (xylene)reactor	43.8	BDL	BDL	0.3	23.4	BDL	BDL	0.5
Solution cut tank farm (xylene) solution cut tank	43.0	BDL	BDL	BDL	26.1	BDL	BDL	BDL
xylene tank PESO tank form	32.7	BDL	BDL	BDL	26.5	BDL	BDL	BDL
Liquid Epoxy Resin Plant (EHC vent)-ISBL	26.2	BDL	BDL	BDL	22.7	BDL	BDL	BDL
Liquid Epoxy Resin Plant (Toluene vent)	27.8	BDL	BDL	0.4	22.3	BDL	BDL	0.7
Liquid Epoxy Resin Plant (EHC vent)-OSBL	35.7	BDL	BDL	0.3	23.2	BDL	BDL	0.4

	Stacks	**Feb-25**				**Mar-25**			
		PM	**SOX**	**NOX**	**VOC**	**PM**	**SOX**	**NOX**	**VOC**
	Liquid Epoxy Resin Tank (toluene vent)	25.0	BDL	BDL	BDL	33.8	BDL	BDL	BDL
	Reactive Dilute Plant (Toluene)	24.4	BDL	BDL	0.5	43.2	BDL	BDL	0.3
	Solution Cut tank (xylene)reactor	24.4	BDL	BDL	0.6	44.2	BDL	BDL	0.3
	Solution cut tank farm (xylene) solution cut tank	27.3	BDL	BDL	BDL	42.8	BDL	BDL	BDL
	xylene tank PESO tank form	25.5	BDL	BDL	BDL	33.0	BDL	BDL	BDL
	Liquid Epoxy Resin Plant (EHC vent)-ISBL	22.8	BDL	BDL	BDL	25.1	BDL	BDL	BDL
	Liquid Epoxy Resin Plant (Toluene vent)	21.9	BDL	BDL	0.8	25.9	BDL	BDL	0.2
	Liquid Epoxy Resin Plant (EHC vent)-OSBL	22.8	BDL	BDL	0.5	36.0	BDL	BDL	0.4

20.		PP shall use approved fuels only as fuel in boilers.	As of now we don't have any boiler at our site.
21.		The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of industrial Safety& Health). Following indicative guidelines shall also be followed to reduce the fugitive emission. ➢ internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement. ➢ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant. ➢ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.	The fugitive emission in the work zone environment is monitored. We had conformed the emission standards prescribed by the concerned authorities from time to time Fugitive emission in the work zone environment are monitored on regular basis. The analysis is conducted by Green Circle & the reports (Form-37) are attached in below **Table:13** Please refer **Annexure: 5** for Form-37.

Table No:13

Workplace Monitoring (Form no 37)

Month	Oct-24							Nov-24						
Area	**Total Dust (mg/m3)**	**SO2 (mg/m3)**	**NO2 (mg/m3)**	**VOC (mg/m3)**	**ECH (mg/m3)**	**TOLUENE (mg/m3)**	**XYLENE (mg/m3)**	**Total Dust (mg/m3)**	**SO2 (mg/m3)**	**NO2 (mg/m3)**	**VOC (mg/m3)**	**ECH (mg/m3)**	**TOLUENE (mg/m3)**	**XYLENE (mg/m3)**
Short term Exposure Limit in 15min mg/m6	**-**	**10**	**10**	**-**	**0.5**	**50**	**50**	**-**	**10**	**10**	**-**	**0.5**	**50**	**50**
Ground Floor Flaker Area	1.3	0.3	1.4	0.3	<0.1	0.84	0.72	1.1	0.3	1.1	0.2	<0.1	0.53	0.64
BPA Charging Area	1.2	1.3	2.1	0.6	<0.1	1.2	0.95	1.1	1.9	2.3	0.5	<0.1	0.72	0.55
Ware house drumming area	1.5	0.6	0.9	1.2	<0.1	0.98	0.86	1.7	0.6	0.3	2.2	<0.1	1.3	0.98
Loading area Warehouse	1.2	1.4	2.4	1.6	<0.1	1.1	1.2	2.6	1.9	2.2	1.7	<0.1	1.05	0.86
ECH Unloading area	2.3	1.1	1.5	1.2	<0.1	1.12	0.95	2.3	1.8	1.7	2.3	0.3	1.2	0.94
Utility Shade	2.3	1.2	1.3	1.2	0.4	0.7	1.6	2.3	1.6	1.0	1.8	<0.1	1.5	1.1
ETP Salt area	2.7	1.4	0.5	0.5	<0.1	1.5	1.8	2.1	1.9	0.6	1.8	<0.1	0.83	0.63
ETP ME area	3.1	1.4	1.2	0.5	<0.1	0.89	1.2	2.0	1.9	2.1	0.1	<0.1	1.0	0.76
QA Lab Inside area	2.3	1.4	0.5	0.4	<0.1	0.98	0.7	1.9	1.3	0.6	1.0	<0.1	0.79	0.82
Drum area plant	1.4	1.8	0.5	1.3	<0.1	1.2	1.0	1.8	1.9	0.4	1.9	0.4	1.3	1.1
Average	**1.9**	**2.0**	**2.0**	**0.9**	**0.5**	**5.5**	**5.5**	**1.9**	**2.3**	**2.0**	**1.4**	**0.4**	**5.5**	**5.3**
Min	**3.1**	**10.0**	**10.0**	**1.6**	**0.5**	**50.0**	**50.0**	**2.6**	**10.0**	**10.0**	**2.3**	**0.5**	**50.0**	**50.0**
Max	**1.2**	**0.3**	**0.5**	**0.3**	**0.4**	**0.7**	**0.7**	**1.1**	**0.3**	**0.3**	**0.1**	**0.3**	**0.5**	**0.6**

Month	Dec-24	Jan-25

Area	Total Dust (mg/m3)	SO2 (mg/m3)	NO2 (mg/m3)	VOC (mg/m3)	ECH (mg/m3)	TOLUENE (mg/m3)	XYLENE (mg/m3)	Total Dust (mg/m3)	SO2 (mg/m3)	NO2 (mg/m3)	VOC (mg/m3)	ECH (mg/m3)	TOLUENE (mg/m3)	XYLENE (mg/m3)
Short term Exposure Limit in 15min mg/m6	**-**	**10**	**10**	**-**	**0.5**	**50**	**50**	**-**	**10**	**10**	**-**	**0.5**	**50**	**50**
Ground Floor Flaker Area	1.2	0.3	1.3	0.3	<0.1	0.58	0.70	1.3	0.5	1.2	0.3	<0.1	0.6	0.72
BPA Charging Area	1.2	1.5	2.0	0.7	<0.1	0.80	0.85	1.4	2.2	2.7	0.8	<0.1	0.6	0.81
Ware house drumming area	1.6	0.7	0.8	2.0	<0.1	1.0	0.82	1.8	0.6	0.3	1.3	<0.1	1.1	0.65
Loading area Warehouse	2.0	1.3	2.1	1.7	<0.1	1.87	0.98	2.7	1.6	2.3	1.5	<0.1	0.9	0.72
ECH Unloading area	2.2	1.3	1.6	2.0	0.2	1.10	0.96	2.4	2.2	1.7	2.3	0.3	1.6	1.4
Utility Shade	2.2	1.4	1.2	1.5	<0.1	1.0	1.2	2.3	1.5	1.3	0.5	<0.1	0.6	0.4
ETP Salt area	2.5	1.3	0.6	1.0	<0.1	1.0	1.2	2.7	1.4	0.6	1.6	<0.1	0.7	0.45
ETP ME area	2.5	1.3	2.0	0.3	<0.1	1.0	0.98	2.3	1.5	1.5	0.2	<0.1	0.9	0.74
QA Lab Inside area	1.8	1.5	0.6	0.9	<0.1	1.0	0.82	1.6	1.3	0.5	1.2	<0.1	0.7	0.86
Drum area plant	1.3	1.9	0.4	1.2	0.3	1.3	1.1	1.7	1.4	0.2	1.6	0.4	1.3	0.82
Average	**1.9**	**2.0**	**2.1**	**1.2**	**0.3**	**5.5**	**5.4**	**2.0**	**2.2**	**2.0**	**1.1**	**0.4**	**5.4**	**5.2**
Min	**2.5**	**10.0**	**10.0**	**2.0**	**0.5**	**50.0**	**50.0**	**2.7**	**10.0**	**10.0**	**2.3**	**0.5**	**50.0**	**50.0**
Max	**1.2**	**0.3**	**0.4**	**0.3**	**0.2**	**0.6**	**0.7**	**1.3**	**0.5**	**0.2**	**0.2**	**0.3**	**0.6**	**0.4**

Month	Feb-25	Mar-25

Area	**Total Dust (mg/ m3)**	**SO2 (mg/m 3)**	**NO2 (mg/ m3)**	**VOC (mg/ m3)**	**ECH (mg/ m3)**	**TOLU ENE (mg/ m3)**	**XYLE NE (mg/ m3)**	**Total Dust (mg/ m3)**	**SO2 (mg/ m3)**	**NO2 (mg/ m3)**	**VOC (mg/ m3)**	**ECH (mg/ m3)**	**TOLU ENE (mg/ m3)**	**XYLEN E (mg/ m3)**
Short term Exposure Limit in 15min mg/m6	**-**	**10**	**10**	**-**	**0.5**	**50**	**50**	**-**	**10**	**10**	**-**	**0.5**	**50**	**50**
Ground Floor Flaker Area	1.4	0.8	1.3	0.6	<0.1	0.2	0.81	1.0	0.4	1.2	0.4	<0.1	0.55	0.68
BPA Charging Area	1.6	2.3	2.7	0.8	<0.1	0.6	0.81	1.1	1.4	1.8	0.6	<0.1	0.75	0.81
Ware house drumming area	1.6	0.5	0.2	1.2	<0.1	1.4	0.68	1.2	0.5	0.7	1.6	<0.1	0.9	0.9
Loading area Warehouse	2.2	1.9	2.4	1.7	<0.1	0.7	0.74	1.9	1.1	2.0	1.6	<0.1	1.89	0.99
ECH Unloading area	2.3	2.6	1.5	2.9	0.4	1.5	1.3	2.1	1.2	1.5	1.9	0.2	1.10	0.98
Utility Shade	3.1	1.7	1.4	0.6	<0.1	0.5	0.3	2.1	1.5	1.3	1.7	<0.1	1.2	1.5
ETP Salt area	2.3	1.6	0.3	1.2	<0.1	0.4	0.45	2.6	1.2	0.7	1.1	<0.1	0.9	1.0
ETP ME area	2.4	1.2	1.7	0.4	<0.1	0.7	0.71	2.4	1.2	1.9	0.4	<0.1	1.0	0.95
QA Lab Inside area	1.6	1.3	0.5	1.2	<0.1	0.7	0.86	1.4	1.3	0.4	0.7	<0.1	0.8	0.81
Drum area plant	1.6	1.3	0.7	1.2	0.2	1.1	0.79	1.1	1.2	0.5	1.1	0.4	1.2	1.0
Average	**2.0**	**2.3**	**2.1**	**1.2**	**0.4**	**5.3**	**5.2**	**1.7**	**1.9**	**2.0**	**1.1**	**0.4**	**5.5**	**5.4**
Min	**3.1**	**10.0**	**10.0**	**2.9**	**0.5**	**50.0**	**50.0**	**2.6**	**10.0**	**10.0**	**1.9**	**0.5**	**50.0**	**50.0**
Max	**1.4**	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.3**	**1.0**	**0.4**	**0.4**	**0.4**	**0.2**	**0.6**	**0.7**

22.		Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.	Complied. We done workplace monitoring monthly by GPCB Approved third party. Please refer Annexure: 5.

23.		For control of fugitive emission, VOCs, following steps shall be followed: ➢ Closed handling and charging system shall be provided for chemicals. ➢ Reflux condenser shall be provided over Reactors / Vessels. ➢ Pumps shall be provided with mechanical seals to prevent leakages. ➢ Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.	Complied
24.		Solvent management shall be carried out as follows: ➢ Measures shall be taken to reduce the process vapors emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have vapour recovery system ➢ Reactor shall be connected to adequate chilling system to condensate solvent vapors and reduce solvent losses. ➢ Reactor and solvent handling pump shall have mechanical seals to prevent leakages. ➢ The condensers shall be provided with sufficient HTA and residence time so as to achieve maximum solvent recovery. ➢ Solvents shall be stored in a separate space specified with all safety measures. ➢ Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. ➢ Solvent storage and handling area shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Complied Liquid Epoxy Resin Plant- (i) Bag filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors. We had provided - (i) Bag filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors Bag at Liquid Epoxy Resin Plant. **Figure no:7** **Bag filter for control of SPM**  **Figure no:8** **Guard condenser for condensation of solvent** 

			vapors
		➢ Reactive Diluents Plant- (i) Bag filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors	We had provided - (i) Bag filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors Bag at Reactive Diluent Plant. **Figure no:9** **Guard condenser for condensation of solvent vapors** 
		➢ Hardeners Plant- (i) Water Scrubber for absorption of unreacted Amines	We had provided water scrubber for absorption of unreacted Amines at hardeners plant.
		➢ Powder Coating/ Can Coating Resin Plant- (i) Bag Filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors.	We had provided (i) Bag Filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors at powder coating / can coating resin plant. **Figure no:10** **Guard condenser for condensation of solvent vapors**

			
		➢ Solution Cut Resins Plant- (i) Bag Filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors	We had provided (i) Bag Filters for control of SPM; (ii) Guard condenser for condensation of solvent vapors Condenser at Solution Cut Resin Plant. **Figure no:11** **Guard condenser for condensation of solvent vapors** 
25.		Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, and VOCs shall be carried out in the Impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. lf at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	We had Regular monitoring of ground level concentration of HCl, SO2, NOx, ECH, Toluene, Xylene, PM10, and PM2.5 carried out in the impact zone and its records are maintained. Ambient air quality levels are not exceeding the standards stipulated by Gujarat pollution control board. If at any stage these levels are found to

exceed the prescribed limits, necessary additional control measures are provided immediately. The location of the monitoring stations and frequency of monitoring is decided in consultation with GPCB.

Table No.14

Third party analysis reports are attached as **Annexure :6**

Table No:10

Details of Ambient Air Quality Monitoring

Name of the third party: Green circle Inc.
Name of instrument: FPS & Bladder
Sampling Method: IS 5182: Part 5:1975
Date of calibration: 20.03.2024 to 19.03.2025

fire reservoir cum solar pond												
Parameter	**PM10**	**PM2.5**	**SO2**	**Nox**	**CO**	**Ammonia As NH3**	**HCL**	**CL2**	**H2S**	**HC**	**HF**	**CS2**
Unit	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**
Months	**100**	**60**	**80**	**80**	**5000**	**400**	**200**	**100**	**500**	**160**	**60**	**2000**
Oct-24	37.4	7.1	2.7	7.1	<10	<10	<5	<2	<10	<5	<1	<20
Oct-24	29.6	8.5	3.4	7.2	<10	<10	<5	<2	<10	<5	<1	<20
Nov-24	40.2	6.5	3.1	6.3	<10	<10	<5	<2	<10	<5	<1	<20
Nov-24	38.6	8.9	2.5	5.9	<10	<10	<5	<2	<10	<5	<1	<20
Dec-24	40.6	8.9	4.5	7.2	<10	<10	<5	<2	<10	<5	<1	<20
Dec-24	41.8	8.1	3.3	5.2	<10	<10	<5	<2	<10	<5	<1	<20
Jan-25	44.5	8.6	4.3	6.8	<10	<10	<5	<2	<10	<5	<1	<20

Jan-25	47.9	10.5	4.7	7	<10	<10	<5	<2	<10	<5	<1	<20
Feb-25	45.3	8.2	4.7	7.1	<10	<10	<5	<2	<10	<5	<1	<20
Feb-25	47.2	10.6	5.2	7.6	<10	<10	<5	<2	<10	<5	<1	<20
Mar-25	45.9	8	4.5	7.6	<10	<10	<5	<2	<10	<5	<1	<20
Mar-25	40.4	7.6	4.3	7	<10	<10	<5	<2	<10	<5	<1	<20
Average	**41.62**	**8.46**	**3.93**	**6.83**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
Max	**47.9**	**10.6**	**5.2**	**7.6**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
Min	**29.6**	**6.5**	**2.5**	**5.2**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**

Near Weigh Bridge												
Parameter	**PM10**	**PM2.5**	**SO2**	**Nox**	**CO**	**Ammonia As NH3**	**HCL**	**CL2**	**H2S**	**HC**	**HF**	**CS2**
Unit	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**
Months	**100**	**60**	**80**	**80**	**5000**	**400**	**200**	**100**	**500**	**160**	**60**	**2000**
Oct-24	51.3	12.4	4.2	8.6	<10	<10	<5	<2	<10	<5	<1	<20
Oct-24	45.3	15.6	4.2	6.80	<10	<10	<5	<2	<10	<5	<1	<20
Nov-24	53.8	10.4	5.3	9.1	<10	<10	<5	<2	<10	<5	<1	<20
Nov-24	52.6	12	4.5	7.8	<10	<10	<5	<2	<10	<5	<1	<20
Dec-24	52.4	9.4	5.8	10.5	<10	<10	<5	<2	<10	<5	<1	<20
Dec-24	56.9	12.7	4.9	7.84	<10	<10	<5	<2	<10	<5	<1	<20
Jan-25	57.5	11.5	5.6	9.9	<10	<10	<5	<2	<10	<5	<1	<20
Jan-25	62.5	14.2	5.8	10.1	<10	<10	<5	<2	<10	<5	<1	<20
Feb-25	57.5	12.1	5.3	9.70	<10	<10	<5	<2	<10	<5	<1	<20

		Feb-25	62.8	15.3	4.9	10.4	<10	<10	<5	<2	<10	<5	<1	<20
		Mar-25	56.1	11.6	5	8.5	<10	<10	<5	<2	<10	<5	<1	<20
		Mar-25	51.3	8.9	5.6	10.2	<10	<10	<5	<2	<10	<5	<1	<20
		Average	**55.00**	**12.18**	**5.09**	**9.12**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Max	**62.8**	**15.6**	**5.8**	**10.5**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Min	**45.3**	**8.9**	**4.2**	**6.8**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Near Utility												
		Parameter	**PM10**	**PM2.5**	**SO2**	**Nox**	**CO**	**Ammonia As NH3**	**HCL**	**CL2**	**H2S**	**HC**	**HF**	**CS2**
		Unit	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**
		Months	**100**	**60**	**80**	**80**	**5000**	**400**	**200**	**100**	**500**	**160**	**60**	**2000**
		Oct-24	47.2	15.6	3.8	9.8	<10	<10	<5	<2	<10	<5	<1	<20
		Oct-24	50.7	13.4	3.60	8.5	<10	<10	<5	<2	<10	<5	<1	<20
		Nov-24	44.3	13.2	4.8	11.4	<10	<10	<5	<2	<10	<5	<1	<20
		Nov-24	43.8	10.2	3.2	6.4	<10	<10	<5	<2	<10	<5	<1	<20
		Dec-24	45.8	11.7	4.9	10.6	<10	<10	<5	<2	<10	<5	<1	<20
		Dec-24	46.5	9.38	4.3	6.8	<10	<10	<5	<2	<10	<5	<1	<20
		Jan-25	54.9	11.7	4.9	7.8	<10	<10	<5	<2	<10	<5	<1	<20
		Jan-25	55.7	12.2	5.2	8.3	<10	<10	<5	<2	<10	<5	<1	<20
		Feb-25	55.3	11.5	5.1	7.6	<10	<10	<5	<2	<10	<5	<1	<20
		Feb-25	54.9	12.7	5.6	8.3	<10	<10	<5	<2	<10	<5	<1	<20
		Mar-25	53.1	10.1	5	6.4	<10	<10	<5	<2	<10	<5	<1	<20

		Mar-25	51.8	10.4	4.8	9.01	<10	<10	<5	<2	<10	<5	<1	<20
		Average	**50.3**	**11.8**	**4.6**	**8.4**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Max	**55.7**	**15.6**	**5.6**	**11.4**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Min	**43.8**	**9.38**	**3.2**	**6.4**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Near Cooling Tower												
		Parameter	**PM10**	**PM2.5**	**SO2**	**Nox**	**CO**	**Ammonia As NH3**	**HCL**	**CL2**	**H2S**	**HC**	**HF**	**CS2**
		Unit	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**	**ug/M3**
		Months	**100**	**60**	**80**	**80**	**5000**	**400**	**200**	**100**	**500**	**160**	**60**	**2000**
		Oct-24	47.2	13.4	2.9	8.6	<10	<10	<5	<2	<10	<5	<1	<20
		Oct-24	50.7	12.6	5.3	9.8	<10	<10	<5	<2	<10	<5	<1	<20
		Nov-24	44.3	10.5	2.1	9.4	<10	<10	<5	<2	<10	<5	<1	<20
		Nov-24	43.8	9.2	4.5	7.80	<10	<10	<5	<2	<10	<5	<1	<20
		Dec-24	45.8	10	3.7	9.2	<10	<10	<5	<2	<10	<5	<1	<20
		Dec-24	46.5	9.9	4.1	6.56	<10	<10	<5	<2	<10	<5	<1	<20
		Jan-25	47.1	9.4	4.5	7.2	<10	<10	<5	<2	<10	<5	<1	<20
		Jan-25	48.6	10.2	5.9	8.3	<10	<10	<5	<2	<10	<5	<1	<20
		Feb-25	47.6	9.1	4.8	7.9	<10	<10	<5	<2	<10	<5	<1	<20
		Feb-25	49.2	10.5	6.1	8.7	<10	<10	<5	<2	<10	<5	<1	<20
		Mar-25	48.1	8.3	4.5	7.2	<10	<10	<5	<2	<10	<5	<1	<20
		Mar-25	48.5	9	3.3	8.5	<10	<10	<5	<2	<10	<5	<1	<20

		Average	**47.283 33333**	**10.175**	**4.30833 333**	**8.2633 3333**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Max	**50.7**	**13.4**	**6.1**	**9.8**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**
		Min	**43.8**	**8.3**	**2.1**	**6.56**	**<10**	**<10**	**<5**	**<2**	**<10**	**<5**	**<1**	**<20**

	A.4	**SOLID/HAZARDOUS WASTE:**	
26.		All the hazardous/ solid waste management shall be taken care as mentioned below.	Complied

			Sr no.	Type/Name of the Haz waste	Source	Category	Quantity			Disposal method		Details are mentioned in **below table No:15**
							Existing	Proposed	Total			
			1	Waste Residues (Not made with animal or vegetable material)	From manufacturing Process	I-23.1	1971	0	1971	Collection, storage, transportation, disposal at Ambuja Cement Ltd. for pre-processing, co-processing/ incineration		
			2	Chemical Sludge from wastewater treatment	ETP	I-35.3	2742	2	2744	Collection, storage, transportation, disposal of landfill waste at TSDF and incinerable waste by pre-processing, coprocessing/		

										incineration		
			3	Discarded containers/ bags/ liners contaminated with hazardous waste/chemicals	From Manufacturing Process	I-33.1	1250	5	1255	Collection, storage, transportation, disposal		
			4	Used or Spent Oil	From Lubricants or D.G	I-5.2	12	0	12	Collection, storage, transportation, disposal by selling to registered recycler		
			5	Waste Filter (oil residue/ (containing	From lubricants or D.G Set	I-5.2	2	0.049	2.049	Collection, storage, transportation, disposal by selling to		

										registered recycler		
			6	incinerator waste/ residue	Incinerator	I-37.3	8000	0	8000	Collection, storage, transportation, disposal of landfill waste at TSDF		
			7	MEE residue	MEE Operation	I-37.3	2190	0	2190	Collection, storage, transportation, disposal of landfill waste at TSDF		
			8	Hydrochloric Acid (20% Technical grade) as 20%	B-15 of Sch-II(From ECH & Epoxy)	B-15 of Sch-II	1,32,000	0	1,32,00	Collection, storage and utilization within premise		
				Hydrochloric Acid	(From CPVC)		2,47,048	0	2.47,048	Collection, storage and utilization within		

								premise s	

Table No: 15
Detail of disposal of hazardous waste (Oct-24 to Mar'25)

Type of waste	Category	Disposal in MT	Membership with
Waste Residues (Not made with animal or vegetable material)	I-23.1	360.450	RSPL Geo Cleaner
Chemical Sludge from wastewater treatment	I-35.3	336.370	BEIL
Discarded containers/ bags/ liners contaminated with hazardous waste/chemicals	I-33.1	441.200	Pramukh
Used or Spent Oil	I-5.1	1.340	S B Lubricant
Waste Filter (oil residue/ containing)	I-5.2	0.00	S B Lubricant

27.		Authorization end user shall have permission from the concerned authorities under the rule 9 of the hazardous waste and other wastes (management transboundary movement) rules 2016.	Complied We take the permissions from Authorization end user under the

			rule 9 of the hazardous waste and other wastes.
28.		Unit shall explore the possibilities for environment friendly methods like co processing of hazardous waste for disposal of incinerable & landfill wastes before sending to CHWIF & TSDF sites respectively.	Complied We had a membership for TSDS Sites from BEIL, incineration CHWIF from BEIL & for co processing and preprocessing from Geo cleaner and RSPL sites. The membership certificates are attached as an **Annexure: 7**
29.		The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB.	Complied We had a membership certificates attached as an **Annexure:7**
30.		The unit shall submit the List of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items	Complied We submitted the MOU already for Authorized hazardous waste users.
	A.5	**OTHER**	
31.		The project proponent shall carry out the activities (Provision of roof top solar panel system in the nearby villages. Provision of Organic waste composter in the nearby villages. Promotion of education; including special education and employment enhancing vocation skills especially among children, woman, elderly and the differently abled and livelihood enhancement projects, Protection of national heritage, art and culture including restoration of buildings and sites of historical importance and works of art, setting up of public libraries; promotion and development of traditional arts and handicrafts, Training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic sports, Tree plantation in the nearby villages.) Proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEFCC's OM no. F. No. 22-6512017-lA.lll dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC a s a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	Complied We Trained and promote the campaigns on environment awareness- single used plastic banned campaigned in near by villages. We educating the schools and teachers to prevent the mother earth and how to nurturing the earth. Also, we done the cleanliness drive specially on single used plastic banned campaigns in premise area and outside premises. We arrange the Cleanliness drive at Vilayat chokadi to sensitized the peoples about the single used plastic. we Here is some glimpse for the same.

Figure no :12

Cleanliness Drive: Environment Campaign on Single used Plastic Banned

		Figure no:13 **Environment Campaign on Single used Plastic Banned at Schools Banned** 


Grasim Industries Limited
Advanced Materials Business Vilayat
areness Campaign On Environment
Single Use Plastic Ban

<table>
<tr><td></td><td></td><td colspan="2">Table No:16
Spent CER Details

<table><tr><th>Year</th><th>Amount</th></tr><tr><td>2022-2023</td><td>22.12 Lacs</td></tr><tr><td>2023-2023</td><td>18.96 Lacs</td></tr><tr><td>2023-2024</td><td>3.66 Lacs</td></tr><tr><td>2024-2025</td><td>21.87</td></tr><tr><td>Total</td><td>66.61 Lacs</td></tr></table></td></tr>
<tr><td>32.</td><td></td><td>All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Anand Environmental Consultants Pvt. Ltd. And submitted by the project proponent and commitments made during presentation before SEAC and proposed In the EIA report shall be strictly adhered to in letter and spirit.</td><td>Complied
We submitted the EIA report to concern authorities.
Please find the submission record of EIA report to SEAC committee.</td></tr>
<tr><td></td><td></td><td colspan="2">Figure no:14</td></tr>
</table>

			
	B.	**GENERAL CONDITIONS:**	
	B.1	**CONSTRUCTION PHASE:**	
33		Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	Complied
34.		Project proponent shall ensure that surrounding environment shall not be affected due to construction activity Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable for controlling fugitive emission.	Complied
35.		All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	Complied
36.		First Aid Box shall be made readily available in adequate quantity at all the times.	Complied

ADITYA BIRLA

GRASIM

O/C

Date: 25th February, 2022

Member Secretary,
State Level Expert Appraisal Committee (SEAC)
C/o, Gujarat Pollution Control Board (GPCB)
Paryavaran Bhawan,
Sector 10-A,
Gandhinagar-382010

Dear Sir,

Sub. : Environmental Clearance for M/s. Grasim industries Ltd. (Chemical Division) Epoxy Plant for proposed expansion by addition of Polyamide resin and Polyester Resin at Plot No.:1, GIDC Industrial Estate, Vilayat, Bharuch, Gujarat.

Ref. : Terms of Reference (TOR) issued by SEIAA, Gujarat vide their File No. .: SIA/GJ/160109/2021 dated September 3, 2021.

Proposal No. : SIA/GJ/IND3/64574/2018

We propose to expend our existing production capacity by addition of two products namely Polyamide Resin and Polyester Resin falling under Synthetic Organic Chemical 5(f) category within the existing premises.

In this connection, we have prepared the Environmental Impact Assessment Report considering all the points specified in TOR issued by SEIAA, Gujarat.

As required, please find enclosed:

- Hard copy of e-mail alerts generated by the system.
- EIA Report including reply of TORs issued by the SEIAA/SEAC with necessary Annexures in hard copy.

We request you to scrutinize the stated documents and do the needful for us to obtain the related Environmental Clearance.

Thanking You,
Sincerely,

For, Grasim Industries Ltd. (Chemical Div.)

Rakesh Chokshi
Unit Head

STATE LEVEL EXPERT APPAISAL COMMITTEE GUJARAT RECEIVED ON 28 FEB 2022

Grasim Industries Limited (Epoxy Division)

Office: Ahura Centre, 108/310, 3rd floor, 82, Mahakali Caves Road, Andheri (East), Mumbai-400093. INDIA. | *Plant:* Plot No. 1, GIDC Estate, Village: Vilayat, Tahsil: Vagra, Dist. Bharuch 392 012 Gujarat INDIA. | *Regd. office:* P.O. Birlagram, Nagda - 456 331 (M.P.) INDIA.

Phone: +91 22 66828180 | *Em:*abg.amd@adityabirla.com | *Web:* www.grasim.com | www.epoxy.info | www.adityabirlachemicals.com | CIN: L17124MP1947PLC000410

<table>
<tr><td></td><td></td><td></td><td>Please find the below list for location wise first aid boxes in plant premises.<table><tr><th>Sr no</th><th>Location</th></tr><tr><td>1</td><td>Technical Building</td></tr><tr><td>2</td><td>QC Lab</td></tr><tr><td>3</td><td>08 meter</td></tr><tr><td>4</td><td>16 meter</td></tr><tr><td>5</td><td>SCM</td></tr><tr><td>6</td><td>Electrical Grade</td></tr><tr><td>7</td><td>ETP</td></tr><tr><td>8</td><td>New plant 0 meter North side</td></tr><tr><td>9</td><td>New plant 0 meter South side</td></tr><tr><td>10</td><td>New plant 08 meter</td></tr><tr><td>11</td><td>Tank Farm</td></tr><tr><td>12</td><td>Utility</td></tr></table></td></tr>
<tr><td>37.</td><td></td><td>The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Conditions of Service) Act 1996 and Gujrat rules made there under and their subsequent amendments. Local bye-l concern authority shall be complied in letter and spirit.</td><td>Complied</td></tr>
<tr><td>38.</td><td></td><td>Ambient noise levels shall conform to residential standards both during day and night. incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.</td><td>Complied</td></tr>
<tr><td>39.</td><td></td><td>Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.</td><td>Complied</td></tr>
<tr><td>40.</td><td></td><td>Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.</td><td>Complied</td></tr>
<tr><td>41.</td><td></td><td>All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.</td><td>Complied</td></tr>
<tr><td>42.</td><td></td><td>Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed of with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.</td><td>Compiled</td></tr>
<tr><td>43.</td><td></td><td>Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead-free paints in the project.</td><td>Complied</td></tr>
</table>

44.		Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	We don't have any applicability to used Fly Ash during construction phase.
45.		Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. individual building within the project site shall also be provided with barricades.	Complied
46.		"No uncovered vehicles carrying construction material and waste shall be permitted."	Complied
47.		No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	Complied
48.		Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).	Complied
49.		No excavation of soil shall be carried out without adequate dust mitigation measures in place.	Complied
50.		Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	Complied
51.		Grinding and cutting of building materials in open area shall be prohibited.	Complied
52.		Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	Complied
53.		Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	Complied
	B.2	**OPERATION PHASE:**	
	B.2.1	**WATER:**	
54.		The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	Complied Thw water meter is installed to maintained and monitoring the water consumption data. The details are mentioned is below **Table No: 17** **Total water consumption KLD** **Table No.17**

			<table><tr><th>Month</th><th>Avg</th><th>Min KLD</th><th>Max KLD</th></tr><tr><td>Oct-24</td><td>484</td><td>631</td><td>137</td></tr><tr><td>Nov-24</td><td>527</td><td>712</td><td>438</td></tr><tr><td>Dec-24</td><td>440</td><td>532</td><td>267</td></tr><tr><td>Jan-25</td><td>467</td><td>583</td><td>375</td></tr><tr><td>Feb-25</td><td>486</td><td>677</td><td>197</td></tr><tr><td>March-25</td><td>620</td><td>721</td><td>489</td></tr><tr><td>Avg</td><td>504</td><td>643</td><td>317</td></tr></table>
55.		All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	Complied We implemented the rain water harvesting system in the plant also we installed RO, STP plant for the best possible treatment of water and how to best reuse and recycling of water within premises.
	B.2.2	**AIR**	
56.		In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	As of now we don't used any Spray Dryer.
57.		Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards	Complied We provided Acoustic enclosure to the DG Sets.
58.		Stack /vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	Complied. We provided the stack height as per the standards. We have stacks and as per the designed criteria and standards we provided stack height.
59.		Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.	Complied We conducted the monitoring on every month by GPCB Approved third party agency name M/S.Green circle Vadodara. All the results are well within the limits as per the GPCB/CPCB/MOEF&CC. The results for flue gas emissions are mentioned in **table no:11** &

			results for process gas emission is mentioned in **table no:12.**
60.		AII the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Complied All the processes are in closed loop reactors. so, no any fugitive emissions are there.
	B.2.3	**HAZARDOUS WASTE:**	
61.		The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	We strictly following the applicable category of wastes which are mentioned in our CC&A Comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the hazardous waste (Management, Handling and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization from the GPCB must be obtained for collection/ treatment/ storage/ disposal of hazardous wastes. We have obtained Authorization from GPCB for collection/ treatment/ storage/ disposal of hazardous wastes, which is valid till 01.12.2028. We have submitted the Hazardous Waste Return in Form IV on 29th June 2024.
62.		Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	We had made separate stored hazardous wastes as designated hazardous waste storage facility which has pucca bottom and leachate collection facility, before its disposal.
63.		The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	We had Membership of TSDF facility like BEIL, SEPPL and other facility like RSPL and HELP obtained to dispose our ETP sludge and waste

			polymers at the nearest common TSDF. **Annexures:7**
64.		Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	Complied Trucks/Tankers used for transportation of hazardous waste are well within accordance with the provisions under the motor vehicle act 1988.
65.		The design of the Trucks/tankers shall be such that there is no spillage during transportation	Complied We maintained the process and SOP'S during transportation of Trucks/tankers.
66.		All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/ CHWIF.	Noted. Will take care that waste is being disposed in Co-processing/pre-processing method. we have also obtained membership from RSPL unit and is membership attached annexure 7.
67.		Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	Noted. As of now we don't have any generation of fly ash.
	B.2.4	**SAFETY:**	
68.		The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules,1963.	Complied. We adhere all the provision under factory act 1948.
69.		The project authorities shall strictly comply with the provisions made in Manufacture, Storage and import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	We are complying with all the relevant provisions made in manufacture, storage and import of hazardous chemical rules (MSIHC) 1989. PLI policy attached as **Annexure:8**
70.		Main entry and exit shall be separate and clearly marked in the facility	Complied All entry and exit are marked in plant area, buildings, canteen and other necessary area.
		Figure no:15 **Emergency Exit mark**	

			
71.		Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	Complied
72.		Storage of flammable chemicals shall be sufficiently away from the production area	We have sufficient distance of flammable chemicals from the plant area.
73.		Sufficient number of fire extinguishers shall be provided near the plant and storage area.	Yes, we provided sufficient number of extinguishers in production area. Please find the details are per below table.
		Figure no:16	

Fire extinguishers

Sr. No	Fire Safety Equipment	Quantity /Remarks
1	Fire Riser Escape Hydrant with Hose Box andHose Reel	25 Nos
2	Fire Hydrant System cover whole areas ofPremises	39 Nos
3	Various Types of Fire Extinguishers (ABC, CO2,Mechanical Foam) to cover Whole Areas of Premises	232 Nos
4	Fire Pumps For Fire Hydrant system (Main Electric Fire Pump, Jockey pump, DieselPump)	2 Nos JOCKY 2 Nos Diesel Pump 1 Nos Electric Pump
5	Spare AFFF Foam for Fire Fighting	3000 ltrs
6	SCBA Set	16 Nos
7	Sand Buckets	32 Nos
8	Breathing airline system	2 Nos
9	Fire Water Monitors & Foam Monitors At TankFarm Areas	9 No s

			10	Fire Water Sprinklers System and Foam System at Storage tank Areas	All ECH Tank (5 NOS). ISBL & OSBL TANK (12 NOS) Areas	
			11	Four ways Fire Brigade Inlet	Available	
			12	Sprinklers System at Warehouse	Available	
			13	MVWS System at Inside Plant	Available	
74.		All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.				We take all the necessary precautionary measures to avoid accidents during storage and handling of toxic/hazardous chemicals.
75.		All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions this regard shall be obtained before commencing the expansion activities.				Yes, we taken all the necessary permissions regarding all the toxic/hazardous chemicals. Also, we stored in optimum quantity.
76.		The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report				We ensure to comply with all the environment protection measures. During the Environment clearance process we also done the risk assessment study and we have the risk assessment report attached as **Annexure:9**
77.		Only flame proof electrical fittings shall be provided in the plant premises				Complied. We provided flame proof electrical fittings in plant premises.
		Figure no:17				

		Flame proof Electrical fittings   	
78.		Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Complied We have sufficient storage capacity with smaller drums/containers etc.
79.		All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	We have provided appropriate controls to avoid any leakages at all the storage tanks.

			In that we have provided Bund/dyke walls and close handling for chemical storage tanks for hazardous chemicals.
80.		Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	We had mechanical means of Handling and charging of chemicals like use of monorail cranes, hoist, good lifts, pumping system etc. are installed to avoid/reduce manual exposure to chemicals. Proper PPES are provided to all the persons to avoid any kind of chemical exposure, injury or illness. We had procedure for the handling and charging of the chemicals in which human exposure is minimum.
81.		Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Complied We have Occupational Health Centre within our Premises with availability of Qualified Doctors and Male & female Nurses and Ambulance round the clock. Additionally, we have tie up with Global Hospital, Baroda Heart and Orchid for the health care unit for seeking immediate medical attention in the case of emergency, regular medical checkup of the workers and keeping its records. Contract Agreement letter is attached as **Annexure: 10**
82.		Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	Complied. We have PPE Matrix based on the hazard and a regular training conducted for employees on "Use care maintenance of PPES". Please refer **Annexure:11** PPE matrix is attached as below:
	Table No: 18 **PPE'S Matrix**		

		HEAD PROTECTION	FEET PROTECTION	EYE PROTECTION	BODY PROTECTION		RESPIRATOR PROTECTION		HAND PROTECTION				HEARING PROTECTION	FACE PROTECTION	FALL PROTECTION	
	PPE'S	SAFETY HELMET	SAFETY SHOES	SAFETY GOGGLES	Arc Flash Suit with hood,ele. gloves	PVC SUIT	Full-Face(air purifying via cartridge)	SCBA	HEAT RESISTANT	SERGICAL GLOVES	COTTON GLOVES (PVC DOTS)	CHEMICAL RESISTANT	EAR PLUG/MUFF	FACE SHIELD	SAFETY HARNESS/JACKET HARNESS	
	location															
	EPOXY PLANT BUILDING	√	√	√								√				
	ECH /XYLENE/TOULENE Tank farm-TANKER UNLOADING	√	√	√		√	√					√		√	√	
	UTILITY	√	√	√							√		√			
	ETP	√	√	√								√				
	OSBL FG STATION	√	√	√		√						√		√	√	
	SCM	√	√	√								√				
	MECHANICAL WORK SHOP	√	√	√							√					
	QA LAB	√	√	√						√						
	ELECTRICAL MCC ROOM	√	√	√	√											

83.		First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	Complied. First aid boxes are provided in the plant premises in readily available situations Also, antidotes are available in OHC. Total 12 numbers of first aid boxes are provided at various locations of plant area and it is maintained by OHC male nurse as per decided weakly base schedule. Details of first aid box location & the items available in first aid box are as below in **Table No:19**

Table No:19

Sr. No	Location of first aid boxes

			1	Technical Building	
			2	QC Lab	
			3	08 meter	
			4	16 meter	
			5	SCM	
			6	Electrical Grade	
			7	ETP	
			8	New plant 0 meter North side	
			9	New plant 0 meter South side	
			10	New plant 08 meter	
			11	Tank Farm	
			12	Utility	
84.		Training shall be imparted to all the workers on safety and health aspects of chemicals handling.			All the employees are imparted safety Induction training in the beginning itself covering all the basic topics like safety in chemical handling, fire prevention and control, On site emergency plan, basic safety rules. Afterward training and refresher training courses are conducted on regular interval other safety topics like hazard identification and risk assessment, standard operating procedures, statutory requirements etc.
		Figure no: 18 **Training on Safety**			

		      	
85.		Occupational health surveillance of the workers shall be done and its records shall be maintained, Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	We Pre-employment is a part of appointment criteria which is done strictly during the joining itself. Periodical medical examination is conducted for all employees as per the provision of the factory act and the Gujrat factor rules. For your reference Sample report is attached as **Annexure: 12**

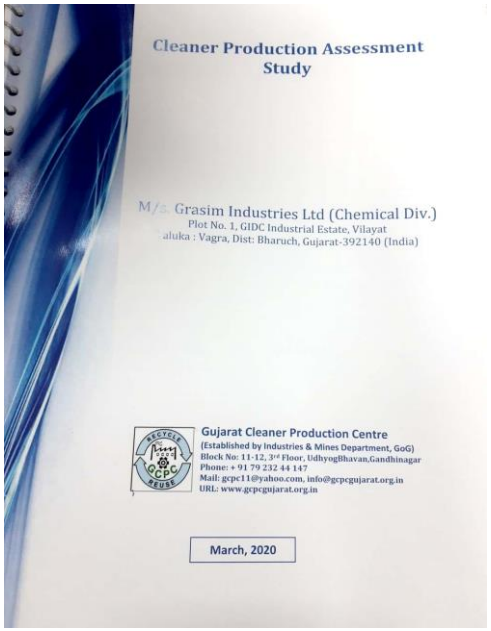
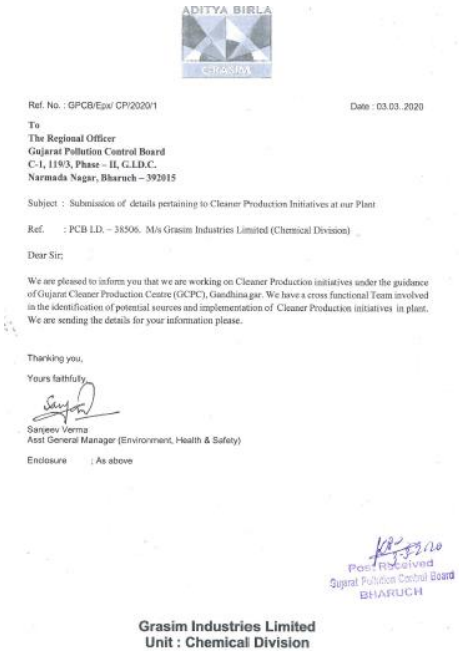
86.		Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Drivers' training, TREM Card, Emergency Information Panel and Vehicle fitness checking system have been implemented to ensure proper compliance of provisions as per the Motor Vehicle Act & Rules.
87.		The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Risk Assessment carried out and adequate safe guards provided to avoid any kind of accident. Regular trainings and refresher trainings are conducted for permanent as well as for Contract employees on "Hazards & Safe handling of Chemicals". Safety Awareness Programs and motivation programs are conducted on various occasions. HAZOP study carried out during the project detail engineering and being reviewed time to time. We have implemented process safety Management system and its various elements like of Management of Change (MOC - Technology). For any modification or change in the existing system, the same is routed through the MOC team were process hazard analysis, PSSR, and Hazop Studies are carried out as per the requirement through a competent cross functional team. Also, the list of chemicals in the **Table No:20**

Sr no.	Name of chemicals	CAS No:
1.	Xylene	1330-20-7
2.	Toluene	108-88-3
3.	Epichlorohydrin	106-89-8

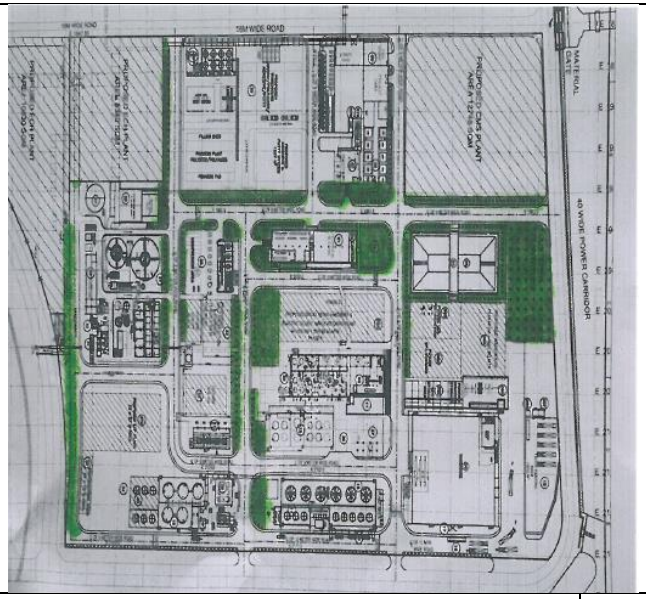
			4.	Chlorine	7782-50-5	
			5.	Hydrochloric acid (15 - 33%)	7647-01-0	
			6.	Sodium hydroxide NaOH	1310-73-2	
			7.	Cresol	106-44-5	
88.		Necessary permissions from various statutory authorities like PESO, Factory inspectorate and others shall be obtained prior to commissioning of the project.				We have obtained PEOS license for hazardous chemicals. Please refer Annexure no1
	B.2.5	**NOISE:**				
89.		The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.				Acoustic Enclosures provided on DG and Compressors. Regular Monitoring being done. Noise level always observed within norms. Please find **Annexure:13** noise monitoring reports.

Table No:21
Ambient Noise Monitoring Report

Month	**Oct-24**		**Nov-24**		**Dec-24**	
Area	**Day time**	**Night Time**	**Day time**	**Night Time**	**Day time**	**Night Time**
Limit	**75dBA**	**70dBA**	**75dBA**	**70dBA**	**75dBA**	**70dBA**
Near Solar Pond	52.6	48.2	54.6	47.3	52.3	49.2
Near Cooling Tower	68.9	60.7	67.4	59.8	65.1	57.3
Near Weigh Bridge	56.4	52.7	58.2	54.2	56.2	53.8
Near Utility	70.2	53.2	71.1	52.6	72.6	52.9
Month	**Jan-25**		**Feb-25**		**March-25**	
Area	**Day time**	**Night time**	**Day time**	**Night time**	**Day time**	**Night Time**
Limit	**75dBA**	**70dBA**	**75dBA**	**70dBA**	**75dBA**	**70dBA**
Near Solar Pond	57.9	54.0	57.4	53.2	51.3	50.2
Near Cooling Tower	65.1	50.5	66.2	50.2	63.1	55.4
Near Weigh Bridge	60.1	50.7	60.2	50.3	58.6	54.5
Near Utility	63.2	51.2	62.7	51.6	71.9	53.8

	B.2.6	**CLEANER PRODUCTION AND WASTE MINIMISATION:**	
90.		The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	Complied, we have engaged Gujarat Cleaner Production Centre, Gandhinagar to get their expert guidance for the Cleaner Production Initiatives at our Plant. Their visits and subsequent interactions are regular activities.
		Figure no:19 **Clener production Assessment Study**   ADITYA BIRLA GRASIM Ref. No. : GPCB/Epa/ CP/2020/1 Date : 03.03. 2020 To The Regional Officer Gujarat Pollution Control Board C-1, 119/3, Phase – II, G.I.D.C. Narmada Nagar, Bharuch – 392015 Subject : Submission of details pertaining to Cleaner Production Initiatives at our Plant Ref. : PCB I.D. – 38506. M/s Grasim Industries Limited (Chemical Division) Dear Sir; We are pleased to inform you that we are working on Cleaner Production initiatives under the guidance of Gujarat Cleaner Production Centre (GCPC), Gandhinagar. We have a cross functional Team involved in the identification of potential sources and implementation of Cleaner Production initiatives in plant. We are sending the details for your information please. Thanking you, Yours faithfully Sanjeev Verma Asst General Manager (Environment, Health & Safety) Enclosure : As above Post Received Gujarat Pollution Control Board BHARUCH Grasim Industries Limited Unit : Chemical Division	
91.		The company shall undertake various waste minimization measures such as: 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 materials substitutes. c. Use of automated and close filling to minimize spillages.	Complied We have production in specialization chemicals (synthetic organic chemicals) and all the

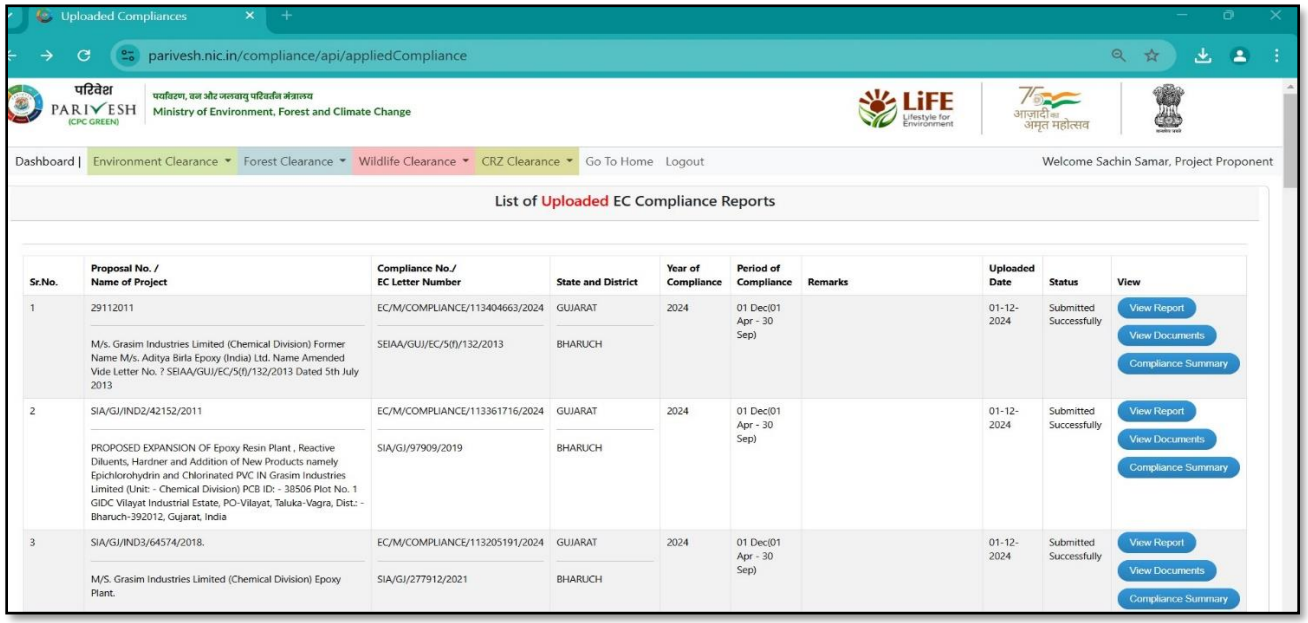
		d. Use of close feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high-pressure hoses for cleaning to reduce wastewater generation. g. Recycling of washes to subsequent batches. h. Recycling of steam condensate. i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation. j. Regular preventive maintenance for avoiding leakage, spillage etc.	process/production are in closed system batch reactors. We have our Distribution control system for monitoring and to implemented all the automation process. The steam we used in process/production we recycling for the same. We sweeping and mopping the floor instead of wash flooring. We record the data for leakage and spillage and preventive maintainace for the observation came from LDAR categories.
	B.2.7	**GREEN BELT AND OTHER PLANTTAION**:	
92.		The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.	Green Belt is being developed in phased manner along the Plant Boundaries, Open Green Belt lands within the plant as well as in surrounding Village areas also in due consultation with Villagers. In this financial total 4832 trees planted in nearby villages. We have planned for Tree Plantation and development & maintenance of Green Belt for next five year within premises and nearby villages.

			
93.		Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	Drip irrigation / low volume, low angle sprinkler shall be used for the green belt development is being implemented at most of the area.
		Figure no:20 low volume system 	

<table>
<tr><td>94.</td><td></td><td>The PP shall develop green belt within premises (58908.63 Sq. m i.e. 33 % of the total plot area) as per the undertaking submitted before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.</td><td>The Green belt development details in near by villages are mentioned in below table.
We have on going contacts for tree plantations in near by villages.</td></tr>
<tr><td></td><td></td><td colspan="2">Table No:22
Green Belt Details
<table>
<tr><th>Year</th><th>Village</th><th>Land in Acre</th><th>Num of Tree planted</th></tr>
<tr><td>2022-2023</td><td>Juned</td><td>2.5</td><td>1000</td></tr>
<tr><td>2023-2024</td><td>Tralsa</td><td>3</td><td>1000</td></tr>
<tr><td>2023-2024</td><td>Shankhwad</td><td>7.5</td><td>2832</td></tr>
</table></td></tr>
<tr><td></td><td></td><td colspan="2">Figure no: 21
Green Area developed at Tralsa village
  
Figure no: 22</td></tr>
</table>

		Green Area Developed at Juned Village  

		 	
	B.3	**OTHER CONDITION**:	
95.		The projects covered under category 5(f) shall undergo the safety and environment audit regularly as per the standards laid down by the GPCB and CPCB.	Noted.
96.		PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety.	Complied. We carried out the safety audits and Risk Assessment Report attached as an **Annexure :14**
97.		Management of Fly Ash shall be as per the Fly Ash Notification 2009 & its amendment from time to time and it shall be ensured that there is '100 % utilization of fly ash to be generated from the unit.	As of now we don't used Fly ash in plant premises.
98.		EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures.	Complied. We done monthly Environment monthly monitoring for measuring the noise as per the CPCB Guidelines. Please refer the noise control measurement **Table No:21**

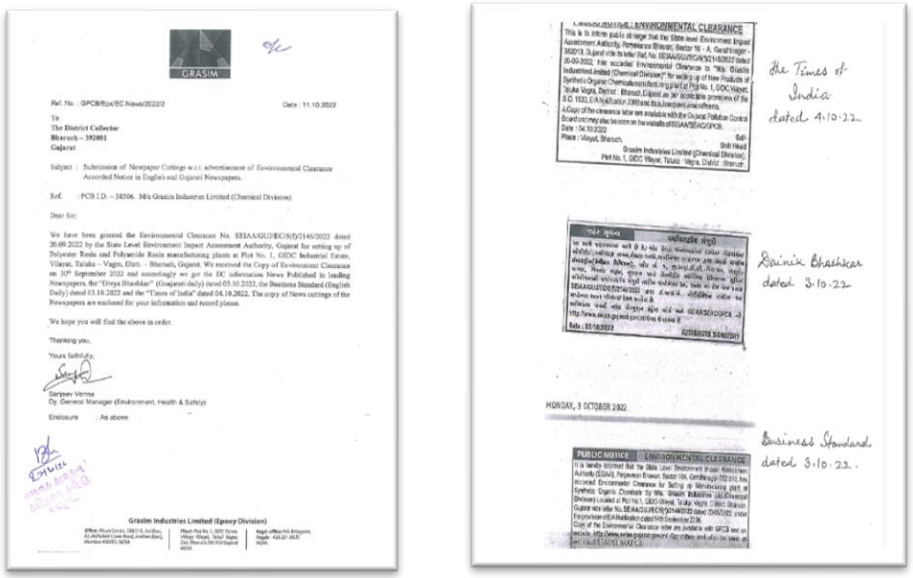
99.		In EMP proponent should separately indicate majors of occupational health, fire and safety measures.	Noted.
100.		Prior EC is granted is subject to the proponent receiving all statutory permission / clearances / certificates and membership of respective agencies / authorities which ever applicable. Proponent shall inform progress from time to time, in six monthly compliance report to MOEFCC / SEIAA / SEAC/ GPCB failing to which this provisional EC will stand withdrawn	Complied. We receiving all the statutory permissions/clearance certificate and membership from the respective agencies. We also submitted our six-monthly complied report on time to time. Last we submitted our EC Compliance report on 1st June'2024. Please refer below figure as an submission proof of compliance report on parivesh portal.
		Figure no : 23 **EC Compliance Submitted on Parivesh portal**  		

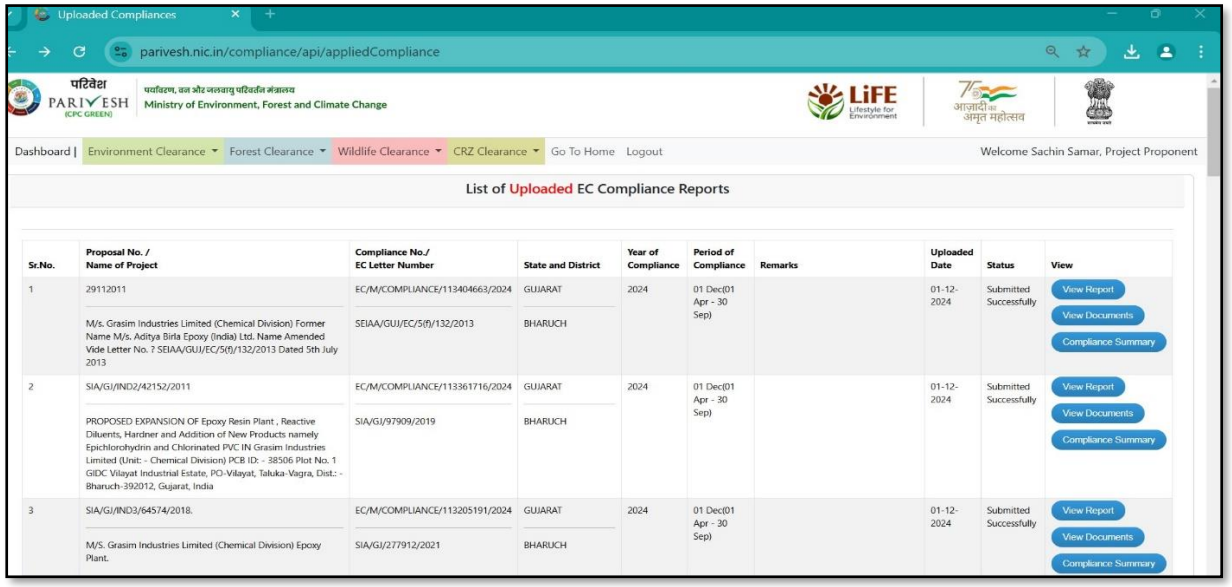
101.		Wherever waste water or chemical water to be collected by tankers and transported to CETP etc. any diversion and disposal in open drainage (nallah) etc. causing human and environmental damage or loss will make it liable for action under the law.	Noted.
102.		All transport movement by tankers etc has to be done with maintenance of gate pass and logbook it should be verified by the inspecting authorities.	Compliance.
103.		Non-hazardous waste data shall be informed to GPCB time to time so as to make an assessment and tie-up with industry for generating sustainable power from the waste.	Noted.
104.		All chemical pharma industry etc. should ensure predictive and preventive maintenance of factory / boiler and reactive show as to avoid incident of fire and safety hazards.	Noted.
105.		EMP should include STP and detail cost including maintenance, transportation of waste water to CETP / CMEE etc as well as transportation cost or transit cost.	Noted.
106.		In LDAR Preventive and prediction maintenance plan.	We have very good schedule of preventive checking and maintenance of chemical caring equipment and pipeline. We have a trained team of Emergency team & response.
107.		In LDAR leakage component, source of equipment leak, detension1 method should be given in table form.	Complied. We attend all the Leakage and take preventive actions.
109.		In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100 % utilization should be ensured.	As of now we don't have any generation of fly ash.
110.		Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.	Complied. We install all the environment management systems as per the control boards regarding effluent and air discharge. We installed metering facility and TOC meter for effluent discharged. We have stacks, vents and bag filters and guard condenser for the air emission control system.
111.		Project proponent shall display the copy of Environment Clearance at the site prominently.	Noted.
112.		Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.	We take the preventive maintainace plan.

<table>
<tr><td>113.</td><td></td><td>Project Proponent will have to display the safety procedure in working area.</td><td>We have the activities wise SOPS and procedure and we follow and displayed.
Also, we take the safety trainings for the better working place for employees and workers.</td></tr>
<tr><td>114.</td><td></td><td>The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.</td><td>We obtained the necessary permission which is implicated to our site. please refer Annexure:1</td></tr>
<tr><td>115.</td><td></td><td>Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP / TSDF / CHWIF / CMEE / Common Spray Dryer as the case may be.</td><td>We submitted all the obtaining membership during our EC process, CTE and CTO process. Also, we timely submitted with thw Six monthly compliance report and Environment audit report.</td></tr>
<tr><td>116.</td><td></td><td>Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.</td><td>Noted. As of now we don’t have any boiler at our plant premises.</td></tr>
<tr><td>117.</td><td></td><td>Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.</td><td>Complied.
We regularly doing the Environment monitoring by GPCB Approved agency.
Every month trainings schedules for the new employees and refresher training for the old employees.</td></tr>
<tr><td>118.</td><td></td><td>integrated Regional Office of MoEF&CC, Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.</td><td>Noted.</td></tr>
<tr><td>119.</td><td></td><td>The PP has to maintain the log sheets / registers / manifest / gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water generation and its disposal data and submit to the GPCB every quarter. GPCB shall verify the same on regular basis and inform SEIAA and take leagal action in the cases of non-compliance.</td><td>Noted.</td></tr>
<tr><td>120.</td><td></td><td>Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No.22-3412018-lA.lll dated 09/08/20'1 8 for Pharmaceutical and Chemical industries mentioned at (Sr no. XX).</td><td>Noted</td></tr>
<tr><td>121.</td><td></td><td>The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-651201 7-lA.lll daledO1lO5l2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.</td><td>CER Details
<table><tr><th>Year</th><th>Amount</th></tr><tr><td>2022-2023</td><td>22.12 Lacs</td></tr><tr><td>2023-2023</td><td>18.96 Lacs</td></tr><tr><td>2023-2024</td><td>3.66 Lacs</td></tr><tr><td>2024-2025</td><td>21.87</td></tr></table></td></tr>
</table>

			Total | **66.61 Lacs**
122.		Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	Complied. We implement the Rain water harvesting system for rooftop runoff rain water and same water used in various activities to protect the conserve water.
123.		The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC	Noted.
124.		Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided	We are using 100% Renewable power
125.		The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	Noted and complied.
126.		All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	Noted.
127.		The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	Noted. We adhere additional conditions that may imposed by the SEAC or the SEIAA.
128.		In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted. We will take care to said conditions.
129.		The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	We adhere stipulations made by Gujarat pollution control board authority.
130.		During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Complied. We have provided garland drain to avoid mixing of accidental spillage with domestic wastewater or storm water while during transfer.
		Figure no:24 **Provision of Garland Drain**	

			
131.		Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Pucca flooring. Impervious layer is provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
132.		Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	We have provided appropriate controls to avoid any leakages at all the storage tanks. In that we have provided Bund/dyke walls and close handling for chemical storage tanks for hazardous chemicals.
133.		No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	We assure and commit to no further expansion or modification in the plant likely to cause environmental protection and management.
134.		The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 198'1 , the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules,2008 and the Public Liability insurance Act, 1991 along with their amendments and rules	Noted.
135.		The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	Noted. We comply all the CSR conditions mentioned during project appraisal.
136.		The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Noted.

137.		The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted.
138.		The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAAJ SEAC/GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	We have published advertised in the News Paper as per guidelines and its Copy sent to the concerned Authorities. Attached as an **Annexure:15**
		Figure no:25 **Press Note for the Environmental Clearance submitted to GPCB**  GRASIM Ref. No. : GPCB/Epx/EC News/2022/2 Date : 11.10.2022 To The District Collector Bharuch – 392001 Gujarat Subject : Submission of Newspaper Cuttings w.r.t. advertisement of Environmental Clearance Accorded Notice in English and Gujarat Newspapers. Ref. : PCB I.D. – 38506. M/s Grasim Industries Limited (Chemical Division) Dear Sir; We have been granted the Environmental Clearance No. SEIAA/GUJ/EC/5(f)/2146/2022 dated 20.09.2022 by the State Level Environment Impact Assessment Authority, Gujarat for setting up of Polyester Resin and Polyamide Resin manufacturing plants at Plot No. 1, GIDC Industrial Estate, Vilayat, Taluka – Vagra, Distt. – Bharuch, Gujarat. We received the Copy of Environment Clearance on 30th September 2022 and accordingly we got the EC information News Published in leading Newspapers, the "Divya Bhaskar" (Gujarati daily) dated 03.10.2022, the Business Standard (English Daily) dated 03.10.2022 and the "Times of India" dated 04.10.2022. The copy of News cuttings of the Newspapers are enclosed for your Information and record please. We hope you will find the above in order. Thanking you, Yours faithfully, Sanjeev Verma Dy. General Manager (Environment, Health & Safety) Enclosure : As above Grasim Industries Limited (Epoxy Division) the Times of India dated 4.10.22 Divya Bhaskar dated 3.10.22 Business Standard dated 3.10.22.	
139.		It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 2nd December of each calendar year.	Complied. We receiving all the statutory permissions/clearance certificate and membership from the respective agencies. We also submitted our six-monthly complied report on time to time. Last we submitted our EC Compliance report on 1st June'2024. Please refer below figure as an

			submission proof of compliance report on parivesh portal
		Figure no:26 **EC Compliance Submitted on Parivesh portal**  	
140.		Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions me above may result in withdrawal of this clearance and attract action under the provisions of Environment (protection Act,1986.	Noted
141.		The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Noted
142.		The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory,	We have noted the said condition if it is not found satisfactory SEIAA may revoke or suspended clearance.
143.		The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Noted
144.		The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted.

145.		This environmental clearance is valid for Ten years from the date of issue.	Noted
146.		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
147.		Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted
	B.4	**COMPLIANCE OF ENVIRONMENT CLERANCE/REPORTING/ADMINISTRATION/APPEAL**:	
148.		Project proponent shall inform to all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the Environment Clearance order accorded.	Noted.
149.		Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.	Noted.
150.		Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.	Noted & Complied. Mentioned the submission proof of six monthly complied in condition num : 100 & 139.
151.		The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.	Complied
152.		In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the Environment Clearance accorded.	Complied
153.		Any person including the project proponent affected by this Environment Clearance order may file appeal to Honourable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of Environment Clearance as prescribe under section 16 of National Green Tribunal Act 2010.	Complied
154.		All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.co (b) seacg ujarat@gmail.com	Complied