Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	SIA/GJ/IND3/426081/2023
Compliance ID	131715428
Compliance Number(For Tracking)	EC/M/COMPLIANCE/131715428/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	29-11-2025
RO/SRO Name	Dr G Trinadh Kumar
RO/SRO Email	agmu174.ifs@nic.in
State	GUJARAT
RO/SRO Office Address	Integrated Regional Offices, Gandhi Nagar
Note:- SMS and E-Mail has been sent to Dr G Trinadh Kumar, GUJARAT with Notification to Project Proponent.	

ADITYA BIRLA
GRASIM

Date: 26/11/2025
Ref: GRCD/MoEF/2025-26/02

To,

State Level Environment Impact Assessment Authority,
SEIAA-Gujarat,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector – 10 A,
Gandhinagar - 382 010

Subject: Compliance Report of Environment Clearances (EC) for the period April 2025 to September 2025

Dear Sir,

We, hereby submit the Compliance Report of following Environment Clearances (ECs) along with necessary annexures.

(1) Environment Clearance received vide letter No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/96/2011 dated 30th May 2011 and its amendment vide Letter No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/ 98 /2012 dated 22nd March 2012,
(2) Environment Clearance vide letter No. SEIAA/GUJ/EC/5(f)/90/2014 dated 1st August 2014,
(3) Environment Clearance vide letter No. SEIAA/GUJ/EC/5(f)&4(d)/642/2016 dated 29th October 2016
(4) Environment Clearance vide letter No. SEIAA/GUJ/EC/1(d)/287/2019 dated 4th Feb 2019
(5) Environment Clearance vide Letter No.: SEIAA/GUJ/EC/1(d)&4(d)/764/2021 dated 10th Jun 2021
(6) Environment Clearance vide letter No.: SEIAA/GUJ/EC/5(f)/488/2024 dated 5th Apr 2024

We hope you will find the same in order.

Thanking You
Yours Faithfully,
For, **M/s. Grasim Industries Limited (Chemical Division)**

Authorized Signatory

Grasim Industries Limited
Unit : Chemical Division

Correspondence Plant & Address :
Plant : Plot No. 1, G.I.D.C. Estate,
Village : Vilayat, Tahsil : Vagra,
Dist. Bharuch 392 012 (Gujarat), India.

Ph. No. : 83470 08059
E-mail : grasimchem.vilayat@adityabirla.com
Website : www.grasimchem.com
CIN : L17124MP1947PLC000410

H.O. : Birla Aurora, 10th floor,
Dr. Annie Besant Road,
Worli, Mumbai - 400 030
Maharashtra, India.

Regd. Office : P.O. Birlagram, Nagda - 456 331 (M.P.)

Six Monthly Compliance Report of Environmental Clearance

For

Grasim Industries Ltd. (Chemical Division)

Submitted to:	Submitted By:
State Level Environment Impact Assessment Authority Gujarat Pollution Control Board, Paryavaran Bhavan, Sector – 10 A, Gandhinagar – 382 010	Grasim Industries Limited(Chemical Division) Plot No. 1 GIDC Vilayat Industrial Estate, PO-Vilayat, Taluka-Vagra,Dist: Bharuch-392012, Gujarat, India
Period: April 2025 to September 2025	

Compliance Status Report for "Environmental Clearance" Accorded by the SEIAA

For

Grasim Industries Ltd. (Chemical Division-Vilayat)

Contents

List of Annexure

Sr. no.	Title	Annexure no.
1	(a) Copy of EC vide Letter No.: SEIAA/GUJ/EC/1(d),4(d) & 5(f)/96/2011 dated 30th May 2011 and amendment to EC vide letter No. SEIAA/GUJ/EC/1(d), 4(d) & 5(f)/98/2012 dated 22nd March 2012 and EC name change letter (b) Copy of EC vide Letter No.: SEIAA/GUJ/EC/5(f)/90/2014 dated 1st Aug 2014 (c) Copy of EC vide Letter No.: SEIAA/GUJ/EC/5(f) & 4(d)/642/2016 dated 29th Oct 2016 (d) Copy of EC vide Letter No.: SEIAA/GUJ/EC/1(d)/287/2019 dated 4th Feb 2019 (e) Copy of EC vide Letter No.: SEIAA/GUJ/EC/1(d)&4(d)/764/2021 dated 10th Jun 2021 (f) Copy of EC vide Letter No. : SEIAA/GUJ/EC/5(f)/488/2024 dated 5th Apr 2024	Annexure-1
2	Copy of PESO Licenses	Annexure-2
3	BEIL & Shesh Enviro – TSDF & CHWIF Membership Certificate	Annexure-3
4	Copy of GIDC Water Agreement Letter	Annexure-4
5	Copy of PLI Policy	Annexure-5
6	Occupational Health Surveillance Report	Annexure-6
7	Adequacy of ETP, STP & Air Pollution Control System by third Party Evaluation	Annexure-7
8	CCA Compliance Report	Annexure-8
9	Details of CSR Activities	Annexure-9
10	ISO 50001:2011 Certificate	Annexure-10

Compliance status of Environmental Clearance vide Letter No.: SEIAA/GUJ/EC/1(d), 4(d) & 5(f)/96/2011 dated 30th May 2011 & amendment to EC vide letter No. SEIAA/GUJ/EC/1(d), 4(d) & 5(f)/98/2012 dated 22nd March 2012

Sr. No.	EC Conditions	Compliance Status
1	The proposal is for environmental clearance for Expansion: putting Chlor-alkali unit with value added products (as a backward integration of VSF plant) along with expansion of captive power plant from 25 MW to 85 MW located at Plot No. 1, GIDC Industrial Estate, Vilayat – 394120, Tal: Vagra, Dist: Bharuch by M/s. Grasim Cellulosic (A Unit of Grasim Industries Ltd.). M/s. Grasim Cellulosic obtained environmental clearance in the year 2008 for manufacturing of VSF, CS2, Sulphuric Acid, Sodium Sulfate and Captive Power Plant at Vilayat Vagra. In addition to above products, it is now proposed to expand the project by putting Chlor-alkali unit as a backward integration of power plant from 25 MW to 85 MW. Bipolar membrane cell technology shall be adopted for the Chlor-alkali unit. The applicant has applied for Expansion following product.	• **Noted** • Copy of Environment Clearance dated 30/05/2011 & name change letter dated 22/03/2012 are attached as Annexure-1.

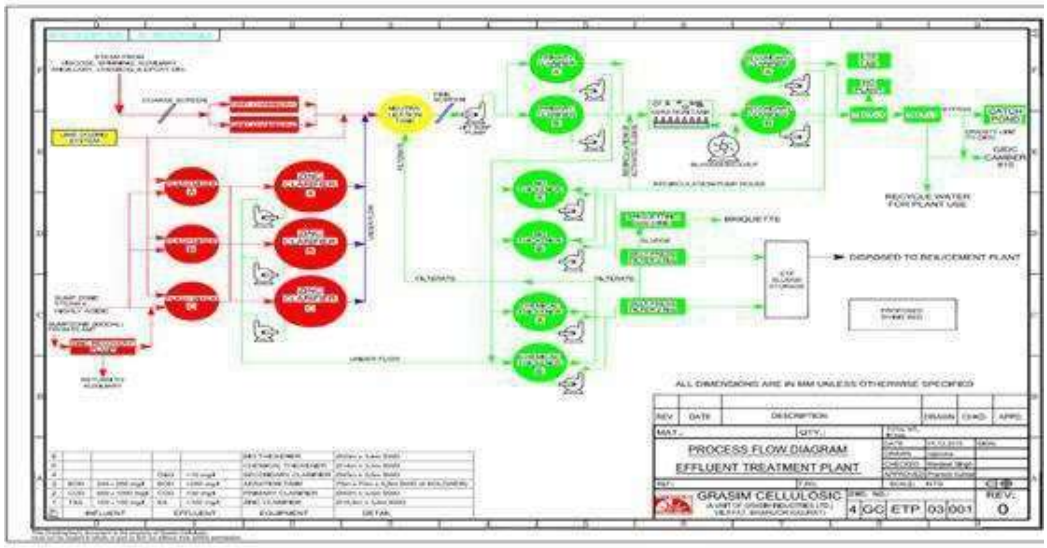
Products	Caustic Soda Lye	Liquid chlorine / Hydrochloric Acid	Hydrogen	Chloro-sulphonic Acid	Sulphuric Acid	Carbon Disulphide
SEIAA/GUJ/EC/1(d), 4(d) & 5(f)/96/2011 dated 30th May 2011 and amendment to EC vide letter No. SEIAA/GUJ/EC/ 1(d),4(d) & 5(f)/98/2012 dated 22nd March 2012	219000 TPA (600 TPD)	197100 TPA (540 TPD)	61320000 NM3/Year (168000 NM3/Day)	73000 TPA (200 TPD)	36500 TPA (100 TPD)	31025 TPA (85 TPD)
Total Production (Tons) –Apr 25 to Sept 25	176785	164144	13170508	nil	nil	nil

Products	Liquid Poly Aluminum Chloride	Stable Bleaching Powder	Chlorinated Paraffin	Aluminum Chloride	Power Generation
SEIAA/GUJ/EC/1(d), 4(d) & 5(f)/96/2011 dated 30th May 2011 and amendment to EC vide letter No. SEIAA/GUJ/EC/1(d), 4(d) & 5(f)/ 98/2012 dated 22nd March 2012	146000 TPA (400 TPD)	36500 TPA (100 TPD)	36500 TPA (100 TPD)	14600 TPA (40 TPD)	96 MW
Total Production (Tons) –Apr 25 to Sept 25	99319	13397	18965	6638	95 MW

A.	**Specific Conditions**	
1	The Unit shall obtain requisite permission from PESO, Nagpur for storage of Chlorine, Hydrogen etc. before commissioning of the project.	• **Complied** • We have obtained licenses from Petroleum & Explosives Safety Organization (PESO) for Chlorine, Hydrogen and Class B chemicals before commissioning of the project. • Licenses are attached as Annexure-2.

PESO License No.	Description	Date of Issue/ Renewal/ Amendment	Validity
S/HO/GJ/03/1445 (S52646)	License to store compressed gas in pressure vessel or vessels (Chlorine Bullet)	05-09-2022	30-09-2027
G/HO/GJ/05/733 (G31658)	License to Fill Compressed Gas in Cylinders – Chlorine	07-10-2019	30-09-2028

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>
<table>
<tr><td>G/HO/GJ/06/724 (G31658)</td><td>License to Store Compressed Gas in Cylinders – Chlorine</td><td>07-10-2019</td><td>30-09-2028</td></tr>
<tr><td>A/G/WC/GJ/GCT/11 (G58778)</td><td>Periodic examination and testing of chlorine seamless cylinders</td><td>18-10-2023</td><td>30-09-2032</td></tr>
<tr><td>G/HO/GJ/05/738 (G31657)</td><td>License to Fill Compressed Gas in Cylinders – Hydrogen</td><td>07-10-2019</td><td>30-09-2029</td></tr>
<tr><td>G/HO/GJ/06/728 (G31657)</td><td>License to Store Compressed Gas in Cylinders – Hydrogen</td><td>07-10-2019</td><td>30-09-2029</td></tr>
<tr><td>P/HQ/GJ/15/5344 (P296022)</td><td>License to import and store Petroleum in an installation –Petroleum Class B</td><td>06-10-2023</td><td>31-12-2033</td></tr>
<tr><td>G/WC/GJ/06/1803 (G34271)</td><td>License to Store Compressed Gas in Cylinders-ALCP Plant</td><td>27-07-2022</td><td>30-09-2033</td></tr>
</table>
</td><td></td></tr>
<tr><td>A.1</td><td colspan="2">Water:</td></tr>
<tr><td>2</td><td>No ground water shall be used for the project. Entire water requirement of 35000 KLD after the proposed expansion shall be met through the GIDC water supply.</td><td>
• Complied
• No ground water is used for the project and entire water requirement is met through GIDC supply only.
• Following are the GIDC offer cum allotment letter details:
<table>
<tr><th>Sr. No.</th><th>Letter No.</th><th>WaterSupply</th><th>Effluent Discharge</th></tr>
<tr><td>1</td><td>GIDC/POJ/MKT/GRASIM /575 Dated 6th December 2006</td><td>15.60 MLD</td><td>12.48 MLD</td></tr>
<tr><td>2</td><td>GIDC/SE/CG/BRH/1236 Dated 29th December 2016</td><td>25 MLD</td><td>19.4 MLD</td></tr>
<tr><td>3</td><td>GIDC/ENG/CE/34 Dated 9th October 2017</td><td>55-56 MLD</td><td>--</td></tr>
</table>
<table>
<tr><th rowspan="2">Month</th><th>Water Consumption</th></tr>
<tr><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>365901</td></tr>
<tr><td>May-25</td><td>353594</td></tr>
<tr><td>Jun-25</td><td>342686</td></tr>
<tr><td>Jul-25</td><td>340765</td></tr>
<tr><td>Aug-25</td><td>353885</td></tr>
<tr><td>Sep-25</td><td>318122</td></tr>
<tr><td>Total</td><td>2074953</td></tr>
</table>
</td></tr>
<tr><td>3</td><td>The Industrial effluent generation from the project shall not exceed 25600 KLD after the proposed expansion.</td><td>
• Complied
• The Industrial effluent generation does not exceed 25600 KLD.
<table>
<tr><th rowspan="2">Month</th><th>Industrial effluent</th></tr>
<tr><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>88835</td></tr>
<tr><td>May-25</td><td>91394</td></tr>
<tr><td>Jun-25</td><td>87987</td></tr>
<tr><td>Jul-25</td><td>89103</td></tr>
<tr><td>Aug-25</td><td>86963</td></tr>
<tr><td>Sep-25</td><td>74382</td></tr>
<tr><td>Total</td><td>518663</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>The Industrial effluent shall be treated in the ETP consisting of Zinc Clarifier, tanks (3.0 Nos), Grit Chambers (3.0 Nos), Primary Clarifier (2.0 Nos), Equalization Tank, Biological Reactor, Final Clarifiers (2.0 Nos) Thickeners (2.0 Nos). Belt Press (2.0 Nos) and sludge Dryers (6.0 Nos). The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the ETP outlet.</td><td>
• Complied
• The industrial effluent is treated in the ETP consisting Zinc Clarifier, tanks (3.0 Nos.), Grit Chambers (3.0 Nos.), Primary Clarifier (2.0 Nos.), Equalization Tank, Biological Reactor, Final Clarifiers (2.0 Nos.) Thickeners (2.0 Nos.) Belt Press (2.0 Nos.) and sludge Dryers (6.0 Nos.).
• ETP is operated regularly and efficiently to achieve the prescribed GPCB norms at the ETP outlet.
</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
		
5	The treated waste water conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal into deep sea.	• **Complied** • The treated waste water confirming to the GPCB norms are discharging into GIDC underground pipeline for final disposal to deep sea through GIDC.
6	A Guard or polishing pond shall be provided before discharge of treated effluent in to GIDC drain. The Unit shall provide on line pH meter, TDS meter & TOC meter for online monitoring of the treated effluent.	• **Complied** • We have provided 2 Nos. of guard ponds, each of (L: 90m, B: 60m, SWD: 6.5m) equivalent to 50,000 m3 capacity provided, (suitable for storage of 48 hrs) before discharge of treated effluent into GIDC drain. • As per CCA condition, we have installed Online pH meter, flow meter & TOC meter are provided for monitoring of the treated effluent.
7	The domestic waste water generation shall not exceed 800 KLD after the proposed expansion.	• **Complied** • The domestic waste water generation does not exceed 800 KLD.
8	The domestic waste water shall be treated in the adequate STP, the STP shall be operated regularly and efficiently so as to achieve the GPCB norms at the STP outlet.	• Complied • STP is operated regularly and efficiently to achieve the GPCB norms at the STP outlet. • We have installed Sewage Treatment Plant for treatment of domestic wastewater on the following specification: Design Capacity of STP: 300 KL/day. Flow: 30.00 KL/Hour. BOD: 300 mg/l. COD: 600 mg/l TSS: 250-300 mg/l pH : 6.5 – 8.5
9	The treated domestic waste water conforming to the GPCB norms shall be utilized for gardening/ plantation within premises. However the rainy season, it shall be transferred to the ETP for its discharge into the GIDC underground drain.	• **Complied** • Treated domestic wastewater from STP is utilized for gardening/ plantation within premises after conforming to GPCB prescribed standards. • In rainy season, treated domestic water is transferred to the ETP for its discharge into the GIDC underground drain.
10	The Unit shall provide metering facility at the inlet and outlet of the ETP & STP and maintain the record of the same.	• **Complied** • We have provided metering facility at inlet & outlet of the ETP & STP and maintain the records of the same regularly.
11	Proper logbooks of ETP & STP operation and	• **Complied**

Sr. No.	EC Conditions	Compliance Status
	also showing the quantity of effluent generated, discharge into GIDC underground drain, utilized for plantation/ gardening etc. shall be maintained and furnished to the GPCB from time to time.	• Proper logbooks of ETP & STP operation is maintained, quantity of effluent generated & discharge into GIDC drain and utilization in plantation/ gardening is maintained. • Readings are maintained and submitted in the Monthly Patrak on GPCB XGN regularly.
12	Regular performance evaluation of the ETP & STP shall be undertaken every year to check its adequacy, through credible institutions like, L.D. College of Engineering, NPC or such other institutions of the similar reputed, and its records shall be maintained.	• **Complied** • Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained.
13	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** • Rainwater is recovered from roof tops and stored in a rain water harvesting well. • We have already installed 10 nos. of Rain water harvesting station at nearby villages like, Sachan Village, Saran Village, Saykha Vilalge, Derol, Asmita Vikas Kendra, Rahad Primary school, Ankot Primary school, Smt. M.M.M. Patel vidhyalaya, Pisad primary school, Saladra Primary school. • We are exploring more possibilities for rainwater harvesting in nearby area in consultation with a Geo- hydrology expert.
14		
15	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 GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC.	• **Complied** • We are and will be participating financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC. • We have also invested a special amount for a training & development of education program that has been initiated jointly by Paryavaran Vikas Kendra-Rajkot and Paryavaran Mitra Ahmedabad.

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>A.2</td><td colspan="2">AIR:</td></tr>
<tr><td>16</td><td>Process emission shall be controlled with the air pollution control equipment (APCE) as mentioned below.
a. Poly Aluminum Chloride Plant- Water scrubber for absorption of HCl vapor.
b. Caustic Soda Plant- Water scrubber having bubble cap tray system for absorption of HCl vapors & three tower systems with alkali scrubber for absorption of unreacted chlorine to produce sodium Hypo Chlorite.
c. Bleaching Powder Plant, Aluminum Chloride Plant and Chlorinated Paraffin Plant - Alkali scrubbers of absorption of Cl2 emission.
d. Sulphuric Acid Plant- DCDA system in manufacturing and scrubbing system.
e. Chlorosulphonic Acid Plant- Acid scrubber for absorption of SO3 emissions.</td><td>• Complied
• We have provided water scrubber for absorption of HCl vapor.
• We have provided Water scrubber having bubble cap tray system for absorption of HCl vapors & three tower systems with alkali scrubber in Sodium Hypo Stack. Online monitoring system is also provided and it is connected to CPCB & GPCB server.
• We have provided Alkali Scrubber for the absorption of Cl2 emission in Bleaching Powder Plant, Aluminum Chloride Plant & Chlorinated Paraffin Plant.
• Double Contact Double Absorption (DCDA) system is installed in Sulphuric Acid manufacturing. We have provided with 2-stage scrubber system for scrubbing SO2 using alkali. With this scrubbing system, we are meeting the emission norms prescribed for sulphuric acid plant.
• Chlorosulphonic Acid project is not implemented in chlor- alkali unit yet.</td></tr>
<tr><td>17</td><td>The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets. Adequate stack height as per prevailing norms shall be provided for the process emissions.</td><td>• Complied
• The Air Pollution Control Equipment (APCE) attached with different stacks are operated efficiently and effectively to achieve the GPCB prescribed norms.
• We have provided adequate stack height as per prevailing norms for the process emissions.</td></tr>
<tr><td>18</td><td>Natural gas shall be used as a raw material in the CS2 Plant. Thus, there shall be no CS2 & H2S emission from the CS2 Plant.</td><td>• Not Applicable
• Chlorosulphonic Acid project is not implemented in chlor-alkali unit yet.</td></tr>
<tr><td>19</td><td>Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 96 MW Power Plant. Two stacks, each of 125 m height shall be provided for the proposed power plant.</td><td>• Complied
• Coal consumption for the period Apr 2025 to Sept 2025 is provided below:
<table>
<tr><th>Month</th><th>Coal Consumption MT/Month</th></tr>
<tr><td>Apr-25</td><td>72274</td></tr>
<tr><td>May-25</td><td>76267</td></tr>
<tr><td>Jun-25</td><td>67054</td></tr>
<tr><td>Jul-25</td><td>63839</td></tr>
<tr><td>Aug-25</td><td>69051</td></tr>
<tr><td>Sep-25</td><td>59776</td></tr>
<tr><td>Total</td><td>408261</td></tr>
</table></td></tr>
<tr><td>20</td><td>High Efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9 % shall be installed for control of flue gas emission from power plant. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in the plant DCS in such a way that if emission from ESP exceeds the specified standard, Utilization of Boiler Capacity shall reduce so that flue gas emission from the stack meets with the specified norms or boiler shut down totally.</td><td>• Complied
• High Efficiency Electro Static Precipitators (ESP) > 99.9% efficiency installed for control of flue gas emission from power plant.
• The ESP is operated efficiently to meet the prescribed norms of GPCB for particulate matter and data has integrated in the Distributed Control System (DCS).
• Online monitoring system is also provided at power plant stack and it is connected to CPCB & GPCB server.
• The control system has been designed and integrated in the plant DCS in such a way that if emission from ESP exceeds the specified standard, utilization of Boiler Capacity is reduced.</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>21</td><td colspan="2">Monthly Analysis Report from Unistar Environment & Research Lab Pvt. Ltd.</td></tr>
<tr><td>22</td><td colspan="2">
<table>
<tr><th rowspan="2">Month/ Parameters</th><th colspan="3">Power Plant Stack 1</th><th colspan="3">Power Plant Stack 2</th></tr>
<tr><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th></tr>
<tr><td>Apr-25</td><td>25.4</td><td>382.4</td><td>269.4</td><td>21.8</td><td>58.4</td><td>82.4</td></tr>
<tr><td>May-25</td><td>22.6</td><td>348.8</td><td>288.7</td><td>19.6</td><td>62.6</td><td>76.4</td></tr>
<tr><td>Jun-25</td><td>24.1</td><td>382.6</td><td>308.2</td><td>20.4</td><td>58.2</td><td>71.2</td></tr>
<tr><td>Jul-25</td><td>22.6</td><td>340.8</td><td>296.2</td><td>18.6</td><td>60.2</td><td>76.4</td></tr>
<tr><td>Aug-25</td><td>18.4</td><td>366.0</td><td>308.2</td><td>17.6</td><td>70.8</td><td>82.6</td></tr>
<tr><td>Sep-25</td><td>20.1</td><td>381.0</td><td>341.0</td><td>18.2</td><td>62.6</td><td>77.6</td></tr>
<tr><td>Min</td><td>18.4</td><td>340.8</td><td>269.4</td><td>17.6</td><td>58.2</td><td>71.2</td></tr>
<tr><td>Max</td><td>25.4</td><td>382.6</td><td>341.0</td><td>21.8</td><td>70.8</td><td>82.6</td></tr>
<tr><td>Avg.</td><td>22.2</td><td>366.9</td><td>302.0</td><td>19.4</td><td>62.1</td><td>77.8</td></tr>
</table>
</td></tr>
<tr><td>23</td><td>There shall be one extra field in the ESP to ensure that even though one field goes out of order, the prescribed standards of PM are met with. In case failure of two or more fields of the ESP, the unit shall immediately shut down the Power Plant.</td><td>• Complied
• The ESPs are designed for all five fields working and Suspended Particulate Matter emission from stack 30 mg/Nm3. With (n-1) four fields working, the designed Suspended Particulate Matter emission from stack is in the prescribed standards.
• In case failure of two or more fields of the ESP, we will immediately shut down the Power Plant.</td></tr>
<tr><td>24</td><td>On line monitoring system shall be installed to monitor at least SOX & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.</td><td>• Complied
• Online monitoring system installed at DCS/ Control room of Power plant, displaying the values of SOX & PM. Also same has been displayed at the board available at plant main gate.</td></tr>
<tr><td>25</td><td>The company shall prepare schedule, carry regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.</td><td>• Complied
• We have prepared schedule and carry out for regular preventive maintenance of mechanical and electrical parts of ESPs under the responsibility of Sr. Maintenance Engineer of the company.</td></tr>
<tr><td>26</td><td>Adequate air pollution control system shall be provided as proposed for control of fugitive emission viz. water sprinklers at all coal transfer points and truck unloading points. Dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc.</td><td>• Complied
• Water sprinkler (14 nos.) system has been provided to control the fugitive emission at coal storage, coal transfer points and truck unloading area.
• We have provided dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc.
• Fly ash is stored in silo and transferred in close trucks to avoid any dust emission.</td></tr>
<tr><td>27</td><td>The fugitive emission in the work zone environment shall be maintained. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health).</td><td>• Complied
• Fugitive emissions in work zone environment & storage area are monitored by third party on monthly basis and are well within GPCB stipulated norms.</td></tr>
<tr><td>28</td><td>Regular performance evaluation of air pollution control system shall be undertaken every year to check its adequacy, through credible institutions like, L. D. College of Engineering, NPC or such other institutions of the similar reputed, and its records shall be maintained.</td><td>• Complied
• Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained.</td></tr>
<tr><td>29</td><td>Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 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 Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of</td><td>• Complied
• Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is done by third party in the impact zone and its records are maintained.
• If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately.
• The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB. There are 4 nos. of ambient air quality</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	monitoring shall be decided in consultation with GPCB.	monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).
A.3	**HAZARDOUS/ SOLID WASTE:**	
30	The company must strictly comply with the rules and regulations with regard to handling and disposal of Hazardous waste in accordance with the Hazardous waste (Management, Handling and transboundary movement) rules 2008, as may be amended from time to time. Authorization from the GPCB must be obtained for collection/ treatment/ storage/ disposal of hazardous wastes.	• **Complied** • We are member of TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd, M/s. Shesh Enviro Infra Pvt. Ltd. and M/s. Safe Enviro, Jambusar. • Copy of the membership certificates are attached as Annexure-3.
31	The Hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate location facility, before its disposal.	• **Complied** • We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal. • Photograph of sludge storage area:
		
32	The Unit shall dispose its ETP sludge, Brine/ process sludge, spent resin, spent catalyst and spent carbon at the nearest common TSDF. The unit shall obtain membership of the nearest common TSDF for disposal of the aforesaid solid waste.	• **Complied** • We are member of TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And M/s. Shesh Enviro Infra Pvt. Ltd. • Copy of the membership certificates are attached as Annexure-3.
33	Discarded containers/ barrels/ bags/ liners shall be either reused or sold only to the authorized recyclers after decontamination	• **Complied** • We are disposing Discarded containers/ barrels/ bags/ liners to GPCB approved registered recyclers only.
34	Used Oils can be sold only to the registered recyclers.	• **Complied** • Used Oil is sold to Registered recyclers only.
35	Fly ash to be handled in dry site and handling of the fly ash shall be done through a closed pneumatic system	• **Complied**

Sr. No.	EC Conditions	Compliance Status
		• At our site we have provided adequate storage facility (Fly Ash Silos) for the fly ash. 
36	Atleast seven days storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed for storage of fly ash.	• **Complied** • We have provided 2 nos. Silo (350 MT each) for storage of fly ash at the site for 7 days. • No ash pond is constructed for storage of fly ash.
37	The ash shall be supplied to the manufacturers of ash based products such as cement, concrete block, panels, etc. The unit shall strictly comply with the fly ash notification under the E. P. Act and it shall be ensured that there is 100% utilization of ash to be generated from the unit.	• **Complied** • Fly Ash has been supplied to Cement manufacturing industries, Brick manufacturing industries and used for road reclamation projects. • At our site we are strictly complying with the Fly Ash Notification under EPA and ensuring that there is 100% utilization of fly ash to be generated from the unit. Current fly ash stock is Zero.
A.4	**SAFETY:**	
38	Provisions of the Manufacturing, Storage & Import of Hazardous Chemicals Rules, 1986 & Factory act 1948 shall be compiled with.	• **Complied** • We are following MSIHC Rules, 1989 and Factories Act, 1948. • All the chemicals/ materials are stored in the storage tanks with required material of Construction. • Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines. • Fire Hydrant system is provided nearby storage and handling area for emergency purpose. • Safety trainings are provided to all the operators and workers working in such areas. • Hazard Identification and Risk Assessment (JSA) of all activities carried out and SOPs are prepared accordingly. • Safety showers are provided nearby storage areas.
39	A well designed fire hydrant system shall be installed as per the prevailing standards.	• **Complied** • Fire hydrant system installed as per TAC (Tariff Advisory Committee) guidelines. • CA Plant: Fire Water Reservoir Storage Capacity: 3000 KL Fire Tender Details: Water capacity: 5000 liter Foam capacity: 500 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Single Headed Hydrant: 100 Nos Fire Hose Reel: 22 Nos DCP Extinguisher: 100 kg (50 kg × 2 Nos.), CO2 Extinguishers: 22.5 kg × 4 Nos. • CMS plant Fire Foam Tender Details: Water capacity: 4000 liter Foam capacity: 2000 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No.

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>Fire Water Reservoir Storage Capacity: 2950 KL
Fire extinguisher total 95 nos.
ABC: 68 nos.
CO2: 17 nos.
Foam type: 10 nos. Hydrant: 33 nos. Monitor: 5 nos. Hose reel: 10 nos.
Foam capacity: 7500 L</td></tr>
<tr><td>40</td><td>All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.</td><td>• Complied
• As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly.</td></tr>
<tr><td>41</td><td colspan="2"><table>
<tr><th>Sr. No.</th><th>Risk Mitigation Measure - Recommendations</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>Surrounding population shall be made aware of the safety precautions to be taken in the event of any mishap within the plant. This can effectively be done by conducting the training awareness programs.</td><td>We have distributed "Disclosure of Information" as per Section-41 B as per Factories Act to the surrounding population and conducted training programs for awareness.</td></tr>
<tr><td>2</td><td>Critical switches and alarm should be always kept in line.</td><td>Our plant is operated by Distributed Control System (DCS) and all safety interlocks are provided and ensured its compliance by DCS operator on continuous
basis.</td></tr>
<tr><td>3</td><td>Fire detectors should be installed near those units which handle large amount of flammable material and operate under high temperature and pressure.</td><td>Fire detectors are installed near those units which handle large amount of flammable
material and operate under high temperature and pressure.</td></tr>
<tr><td>4</td><td>A wind direction pointer should also be installed at storage site so that in an emergency the wind direction can be directly seen and downwind population cautioned.</td><td>We have provided wind indicators at 20 locations in factory premises so that in an emergency the wind direction can be directly seen and downwind population cautioned.</td></tr>
<tr><td>5</td><td>Shut off and isolation valves should be easily approachable in emergencies.</td><td>All shut off and isolation valves are located as such that it can be easily approachable in emergencies.</td></tr>
<tr><td>6</td><td>Material Safety Data Sheet and Toxicological Data should be displayed at the facility.</td><td>Material Safety Data Sheet and Toxicological Data are displayed in Hindi and English languages at the facility.</td></tr>
</table></td></tr>
<tr><td>42</td><td>All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals, especially chlorine, hydrogen, CS2, HCl etc.</td><td>• Complied
• We have developed job safety analysis procedure and trainings have been provided to all employees. Proper controls are provided to mitigate any emergency.</td></tr>
<tr><td>43</td><td>Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risk generated out of it. Storage of hazardous chemicals shall be taken to mitigate the risk generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks/ containers instead of one single large tank for safety purpose.</td><td>• Complied
• We have provided tanks and vessels to storage hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS.</td></tr>
<tr><td>44</td><td>During material transfer, spillage shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.</td><td>• Complied
• For material transfer, we have provided pipelines of required MOC in the plant.
• We have block the storm water drain connection point in the plant areas.</td></tr>
<tr><td>45</td><td>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. Close handling</td><td>• Complied
• We have provided suitable tanks and vessels to storage hazardous chemicals with proper controls</td></tr>
</table>

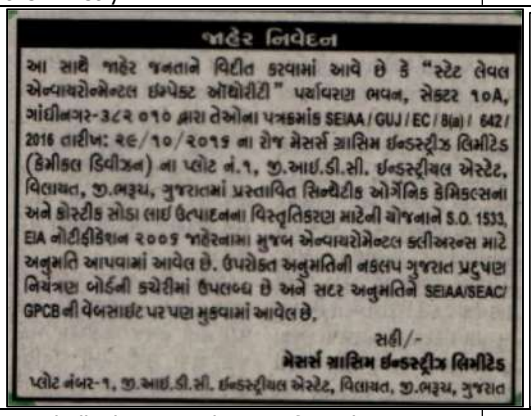
Sr. No.	EC Conditions	Compliance Status
	system for chemicals shall be provided.	such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS.
46	Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical checkup of the workers and keeping its records etc.	• **Complied** • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch. • Periodic health checkup of all workers is also carried out regularly as per Factory act requirement.
47	Personal protective equipment shall be provided to workers and its usage shall be ensured and supervised.	• **Complied** • We have provided proper job specific PPEs to all the • workers and its usage is ensured and supervised regularly.
48	First aid box and required antidote for the chemicals used in the unit shall be made readily available in adequate quantity.	• **Complied** • We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
49	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	• **Complied** • Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. • We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site. • We have made six different sub committees of Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system.
50	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical examination for all the workers shall be undertaken as per the factories Act & rules.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out.
51	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	• **Complied** • We have DCS operated plan which requires minimum Human intervention though we have provided suitable means of PPEs to avoid exposure.
52	Transportation of Hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	• **Complied** • We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
A.5	**NOISE:**	
53	**To minimize the noise pollution the following noise control measures shall be implemented:**	
54	Selection of any new plant equipment shall be made with specification of low noise levels	• **Complied** • We have procured and installed standardize equipment in our plant. We are regularly monitoring noise level of the plant area.
55	Manufacturers/ suppliers of major noise generating machines/ equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible supply and installation to mitigate the noise generation and to comply with the national/ international regulatory norms with respect to noise generation for individual units.	• **Complied** • During our procurement, we are instructing our Manufacturers/ suppliers to make required design modifications in equipments like air compressors, feeder pumps, turbine generators, etc. to mitigate the noise generation and to comply with the national/ international regulatory norms. • We are regularly monitoring noise level of the plant area as per schedule.
56	Regular maintenance of machinery and	• **Complied**

Sr. No.	EC Conditions	Compliance Status
	vehicles shall be undertaken to reduce the noise impact.	• Regular maintenance of machinery and vehicles are undertaken to reduce the noise impact and also considered upgraded version equipment with reputed vendors to ensure minimal noise impact.
57	Noise suppression measures such as enclosures, buffers and/ or protective measures shall be provided.	• **Complied** • Noise suppression measures have been provided at D. G. Sets with acoustic enclosures, utility compressors in well- ventilated area with noise protection.
58	Employees shall be provided with ear protection measures like earplugs or earmuffs.	• **Complied** • Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection in such locations.
59	Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.	• **Complied** • Proper oiling, lubrication and preventive maintenance is carried out of the machineries and equipment to reduce noise generation. • We are following different maintenance practices such as Preventive Maintenance, Predictive Maintenance, Condition based Maintenance and also maintenance prevention with joint collaboration with vendors/ new technology at our site.
60	Construction of equipment generating minimum noise and vibration shall be chosen.	• **Complied** • We have procured and installed equipment like compressors of the companies such as Kirloskar, Ingersoll pneumatic etc. with silencers and Pumps such as Micro finish, Rajedia, Johnson, Tritech etc.
61	Ear plug and muffs shall be made compulsory for the construction workers working near the noise generating activities/ machines/ equipment.	• **Complied** • Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection in such locations
62	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	• Complied • Vehicles and construction equipment with internal • combustion engines without proper silencer are not allowed to operate at our site.
63	Construction equipment meeting the norms specified by EP Act.1986 shall only be used.	• Complied • Construction equipment meeting the norms specified by EP Act 1986 are used.
64	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas	• Complied • Noise control equipment such as Silencers are provided in Emergency D. G. sets which are used as power backup in case of emergency and any other potential areas are also considered with the same.
65	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.	• Complied • We have provided silencers/ mufflers on such noise generator equipment to reduce the noise levels.
66	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, variation dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and rules. Work place noise levels for workers shall be as per the factory act and rules.	• Complied • The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. • The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules.

Sr. No.	EC Conditions	Compliance Status
A.6	**ENERGY CONSERVATION:**	
67	The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.	• **Complied** • We have installed energy efficient devices and appliances as per the Bureau of Energy Efficiency norms.
68	The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented.	• **Complied** • Energy Audit of Chlor-alkali & Value Added Products plant is carried out on regular basis by central technical cell.
69	The project proponent shall implement the application of solar energy which shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating system.	• **Complied** • Solar landscaping lights are installed for Admin Building and also in other plant areas. • We are using 17.59% of renewable sources through third party also.
70	The transformers and motors shall have minimum efficiency of 85%.	• **Complied** • All transformers are of higher efficiency > 98 %.
71	Variable frequency drives shall be installed.	• Complied • 80 nos. of Variable frequency drives are installed for energy saving.
72	Energy conservation measures shall include use of electronic lighting system. Use of CFL tubes to minimize energy use. Use of programmable timers for pumping system and lighting. Water level controllers for water pumps, centralized cooling etc.	• **Complied** • All lights are energy efficient MH lamps and we are replacing the same with LED lights.
73	Energy saving practices as follows shall be practiced. • Constant monitoring of energy consumption and defining targets for energy conservation • Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level • Use of solar cells for lighting • Use of solar water heater for canteen & washing area • Proper load factor shall be maintained by the unit • Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting. • Use of electronic ballast to save energy • Automatic switching system for lighting & water tank pumping shall be used • To the maximum extent possible and technically feasible, energy efficient equipment like motors, pumps, air conditioning systems shall be selected • Gravity flow shall be preferred wherever possible to save pumping energy • Promoting awareness on energy conservation • Training to the staff on methods of energy conservation and to be vigilant for this	• **Complied** • Energy saving practices and initiatives are in place. • Solar landscaping lights are installed for Admin Building and also in other plant areas. • We are using Solar power & wind power from third party as a green fuel to reduce the power consumption. • We have installed VFD on Intermediate Caustic Transfer Pump, on Chilled Water Pump, on PAC Reactors etc. • We have change tap position of Lighting transformers (both normal & emergency) installed in CA. • Cooling water pump of capacity 3200 m3/hr (550kw) replaced with lower capacity pump of 2000 m3/hr (350kw) which reduced power consumption up to 3264 unit (reduced from 11184 unit to 7920 unit) • Aerodynamic FRP fan assembly installed in cooling tower ID fans by replacing cast iron fans which increases the air flow average. Frequency of cooling tower fan reduced from 50HZ to 42HZ saves the energy of 540 units. • Replacement of MH lamps with LED lamps • Installation of LT motor with VFD in place of HT motor for Chlorine compressor reduces the power consumption of Cl2 compressor. Motor frequency set to 42HZ for achieving the required output. Earlier it was working with full load even when the plant running with partial load. 1000 units saving achieved by replacing HT motor with LT motor. • Coating of impeller of Cooling water pump (B)to reduce frictional losses. • Installation of LT motor with VFD in Cl2 gas compressor.

Sr. No.	EC Conditions	Compliance Status
A.6	**CLEANER PRODUCTION AND WASTE MINIMISATION**	
74	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 carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
75	The company shall undertake following waste minimization measures:	
76	Metering and control of quantities of active ingredients to minimize waste.	• **Complied** • We have provided flow meters for wastewater generation. • We have installed RO system for reducing the effluent. Recycle steam and vapor condensate used in process & cooling tower. • We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
77	Reuse of by-products from the process as raw materials or raw material substitute in other process.	• **Complied** • We are using Hydrogen as a clean fuel for producing Caustic Soda flakes & Poly Aluminum Chloride. • Use of waste chlorine gas for producing 32% HCl. Vapor condensate from flaking plant treated by polishing unit and finally used as DM water. • By-product HCl from CPW Plant is used in PAC plant as raw material.
78	Use of automated and enclosed filling to minimize spillages.	• **Complied** • We are using automated and closed filling to minimize spillages.
79	Use of close feed system into batch reactors.	• **Complied** • We are using close feed system into batch reactors.
80	Dry cleaning/ mopping of floor instead of floor washing.	• **Complied** • Floors are cleaned through mopping.
81	Use of light pressure hoses for cleaning to reduce waste water generation.	• **Complied** • Light pressure hoses are used for cleaning and reduce the wastewater.
82	Regular preventive maintenance for avoiding leakage, spillage etc.	• **Complied** • Preventive maintenance schedule is strictly complied to ensure the health of the equipment & pipelines. • Chlorine liquid & gas pipelines thickness is being measured & monitored regularly.
A.7	**GREEN BELT AND OTHER PLANTATION**	
83	The unit shall develop green belt with 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 side and suitable open areas in the GIDC / local bodies / GPCB and submit an action plan of plantation for next three years to the GPCB.	• **Complied** • We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
84	Minimum of 15000 trees shall be planted every year up to five years and budget of Rs 10 lacs per annum shall be earmarked for the greenbelt development, as committed by the project proponent.	• **Complied** • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
85	Drip irrigation / low-volume, low angle sprinkler shall be used for the green belt development.	• **Complied**

Sr. No.	EC Conditions	Compliance Status
		• Drip irrigation / low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m2 area is covered under drip irrigation & low angle sprinkler system.
B.	**GENERAL CONDITIONS:**	
86	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.	• **Complied** • All pollution control systems installed in our plant area directly connected with process safety inter locks from DCS. For ensure, all the safe requirements meet before any start up. We are also following pre-start up safety review before restart of the system.
87	The company shall strictly follow all the recommendations mentioned in the Charter Corporate Responsibility for Environment Protection (CREP) published by the Central pollution control board, as may be applicable.	• **Complied** • As per Charter Corporate Responsibility for Environment Protection (CREP) published by the CPCB, Tree plantation & Tree guard provided to protect Trees. • Energy Program: Low smoke wood stoves & Solar Street Light etc.
88	A separate environment management cell equipped with full-fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allotted for this purpose.	• **Complied** • A separate environment management cell equipped with full-fledged laboratory facilities and qualified personnel set up to carry out the Environment Management and Monitoring functions and a separate budget is allotted for this purpose.
89	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be diversion of these funds for any other purpose. A year wise expenditure on environmental safeguards shall be reported.	• **Complied** • A separate fund / budget is defined / sanctioned on an annual basis with respect to Environmental Management a separate account is maintained with respect to the same. • Yearly expenses with respect to environmental safeguards are also reported on an annual basis.
90	Pucca flooring/ impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	• **Complied** • We have provided RCC and /acid brick line flooring in the required areas.
91	Leakages from the pipes, pumps, shall be minimal and if occurs shall be arrested promptly.	• **Complied** • We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes/ pumps.
92	All the recommendations made in the EIA/ EMP submitted by the project proponent shall be strictly implemented.	• **Complied** • Recommendations made in the EIA/ EMP were submitted & implemented.
93	The applicant 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 of the environmental protection and management.	• **Complied** • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
94	No future expansion or modifications in the plant shall be carried out without prior approval of the MOEF / SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	• **Noted** • All future expansion or modifications in the plant will be carried out with prior approval of the MOEF / SEIAA, as the case may be. • In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference will be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required.

Sr. No.	EC Conditions	Compliance Status
95	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA/ SEAC 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.	• **Complied** • Separate fund / budget is identified / sanctioned on annual basis for Environmental management. • A year wise expenditure on environmental safeguards is also reported.
96	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 GPCB and may also be seen at the website of SEIAA/ 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 Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned regional office of the Ministry.	• Complied • We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. • Name of Paper: Times of India Date of Issue: 08.06.2011 • In: English language • • Name of Paper: Gujarati Lok Satta Date of Issue: 07.06.2011 • In: Gujarati language
	 જાહેર નિવેદન આ સાથે જાહેર જનતાને વિદીત કરવામાં આવે છે કે "સ્ટેટ લેવલ એન્વાયરોન્મેન્ટલ ઇમ્પેક્ટ ઓથોરીટી" પર્યાવરણ ભવન, સેક્ટર ૧૦A, ગાંધીનગર-૩૮૨ ૦૧૦ દ્વારા તેઓના પત્રક્રમાંક SEIAA/GUJ/EC/8(a)/ 642/ 2016 તારીખ: ૨૯/૧૦/૨૦૧૬ ના રોજ મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીઝ લિમીટેડ (કેમીકલ ડિવીઝન) ના પ્લોટ નં.૧, જી.આઇ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાતમાં પ્રસ્તાવિત સિન્થેટીક ઓર્ગેનિક કેમિકલ્સના અને કોસ્ટીક સોડા લાઇ ઉત્પાદનના વિસ્તૃતિકરણ માટેની યોજનાને S.O. 1533, EIA નોટીફીકેશન ૨૦૦૬ જાહેરનામા મુજબ એન્વાયરોમેન્ટલ ક્લીઅરન્સ માટે અનુમતિ આપવામાં આવેલ છે. ઉપરોક્ત અનુમતિની નકલ્પ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે અને સદર અનુમતિને SEIAA/SEAC/ GPCB ની વેબસાઇટ પર પણ મુકવામાં આવેલ છે. સહી/- મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીઝ લિમીટેડ પ્લોટ નંબર-૧, જી.આઇ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાત	 PUBLIC NOTICE This is to inform public at large that the State Level Environment Impact Assessment Authority, Paryavaran Bhavan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/GUJ/EC/8(a)/642/2016, Dated 29/10/2016 has accorded Environmental Clearance to M/s. Grasim Industries Ltd. (Chemical Division) for the proposed expansion of Synthetic Organic Chemical and Caustic Soda Lye plant at Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat as per applicable provisions of the S.O 1533, EIA Notification 2006. Copies of the clearance letters are available with the Gujarat Pollution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB. Sd/- M/s. Grasim Industries Ltd., Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat.
97	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 hard and soft copies to the regulatory authorities concerned on first June and 1st December of each calendar year.	• **Noted & Complied** • We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
98	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• **Noted & Complied** • We are complying all the conditions stipulated by the Gujarat Pollution Control Board.
99	The project authorities to 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 starting the project.	• **Complied** • The date of financial closure and final approval of the project by the concerned authorities and the date of starting the project are: • Date of financial closure: 31st March 2014 • Date of final approval of the project by the concerned authorities: 26th June 2013
100	The SEIAA may revoke or suspend the clearance, if implementation of the above conditions is not found satisfactory.	• **Noted** • We have been complying the conditions issued by the SEIAA. • No suspension order issued by the SEIAA till date.
101	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974. Hazardous waste (Management Handling and Transboundary Movement) Rules 2008 and the public liability Insurance Act, 1991 along with	• **Noted & Complied** • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability

Sr. No.	EC Conditions	Compliance Status
	their amendments and rules.	Insurance Act, 1991 along with their amendments and rules.
102	The Environmental Clearance is valid for five Years.	• **Noted** • The EC has already being converted into CCA.

Compliance status of Environmental Clearance vide Letter No.: SEIAA/GUJ/EC/5(f)/90/2014 dated 1st Aug 2014

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance status</th></tr>
<tr><td></td><td>The proposal is for Environmental Clearance for Chloromethanes and Fatty Alcohol Plants of M/s. Grasim Cellulosic (A Unit of Grasim Industries Ltd.) located at Plot No. 1, GIDC Industrial Estate, Vilayat - 392 140, Tal. Vagra, Dist. Bharuch. Grasim Cellulosic is proposing to manufacture the following products as a forward integration to their existing Chlor-alkali plant, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:
<table>
<tr><th rowspan="2">Sr. no.</th><th rowspan="2">Name of product</th><th colspan="2">Quantity (MT/Month)</th></tr>
<tr><th>Product</th><th>By-product</th></tr>
<tr><td colspan="4">Chloromethanes</td></tr>
<tr><td>1</td><td>Methyl Chloride</td><td colspan="2">Produced as 1st step of manufacturing of all other product</td></tr>
<tr><td>2</td><td>Methylene Chloride (50 % to 80 % of total production)</td><td rowspan="3">4500</td><td>--</td></tr>
<tr><td>3</td><td>Chloroform (15 % to 40 % of total production)</td><td></td></tr>
<tr><td>4</td><td>Carbon Tera Chloride (5 % to 10 % of total production)</td><td></td></tr>
<tr><td>5</td><td>Hydrochloric Acid</td><td>--</td><td>2250</td></tr>
<tr><td colspan="4">FATTY ALCOHOLS</td></tr>
<tr><td colspan="4">A) FATTY ALCOHOL MANUFACTURING PLANT</td></tr>
<tr><td>1</td><td>Fatty Alcohol</td><td>2700</td><td>--</td></tr>
<tr><td>2</td><td>Crude Alcohol Refining (Light)</td><td>--</td><td>25</td></tr>
<tr><td>3</td><td>Crude Alcohol Refining (Heavies)</td><td>--</td><td>144</td></tr>
<tr><td colspan="4">B) FATTY ALCOHOL FRACTIONATION PLANT</td></tr>
<tr><td>1</td><td>Fractionated Fatty Alcohol – Middle Cut Alcohol</td><td>541</td><td rowspan="3">5</td></tr>
<tr><td>2</td><td>Fractionated Fatty Alcohol – Light Cut Alcohol</td><td>199</td></tr>
<tr><td>3</td><td>Fractionated Fatty Alcohol – Light</td><td>13</td></tr>
</table></td><td>

Noted
Copy of Environment Clearance & CCA are attached as Annexure-1.
For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this product in upcoming EC Application.
Actual Production Details are as below:

<table>
<tr><th rowspan="2">Name of Product</th><th colspan="4">Actual Quantity (MT/M)</th></tr>
<tr><th>Methylene Chloride</th><th>Chloroform</th><th>Carbon Tetra Chloride</th><th>Total</th></tr>
<tr><td>Apr-25</td><td>2245</td><td>1037</td><td>128</td><td>3410</td></tr>
<tr><td>May-25</td><td>2638</td><td>1285</td><td>148</td><td>4071</td></tr>
<tr><td>Jun-25</td><td>2704</td><td>1388</td><td>155</td><td>4247</td></tr>
<tr><td>Jul-25</td><td>2898</td><td>1377</td><td>171</td><td>4446</td></tr>
<tr><td>Aug-25</td><td>2860</td><td>1378</td><td>152</td><td>4390</td></tr>
<tr><td>Sep-25</td><td>2649</td><td>1289</td><td>148</td><td>4086</td></tr>
<tr><td>Min</td><td>2245</td><td>1037</td><td>128</td><td>3410</td></tr>
<tr><td>Max</td><td>2898</td><td>1388</td><td>171</td><td>4446</td></tr>
<tr><td>Avg</td><td>2666</td><td>1292</td><td>150</td><td>4108</td></tr>
</table></td></tr>
<tr><td>A.1</td><td colspan="2">CONDITIONS WITH WHICH ENVIRONMENT CLEARANCE IS GRANTED:</td></tr>
<tr><td>A.1.1</td><td>WATER:</td><td></td></tr>
</table>

Sr. No.	EC Conditions	Compliance status
1	Fresh Water requirement for Chloromethanes and fatty alcohol plants shall not exceed 553 KL/Day and it shall be met only through GIDC water supply only. Metering of water shall be done and its records shall be maintained. No ground water shall be used for the project.	• Complied • Fresh Water requirement for Chloromethanes is being met through GIDC Water supply only. • Average water consumption for Apr 2025 to Sept 2025 is 206 KLD, sourced from GIDC water supply for the Chloromethanes Plant. • We have installed Meters and maintaining the record of the same on regular basis. • We are not using ground water for the Chloromethanes project. • We will not be introducing fatty alcohol plant
2	Cooling tower blow down to the tune of 275 KL/Day and 20 KL/Day of wastewater from VRC unit and heavy recovery unit shall be treated by RO System. RO Reject to the tune of 88 KL/Day shall be treated in the ETP whereas RO Permeate water to the tune of 207 KL/Day shall be reused back in process plants.	• **Complied** • Cooling Tower blow down, Wastewater from VRC Unit & heavy recovery unit treated in RO system. RO Permeate reused in Process and RO reject further treat in ETP.
3	Industrial effluent generated from process of fatty alcohols - 25 KL/Day & Chloromethane (Hydro Chlorination & Photo Chlorination) - 60 KL/Day. VRC Unit & Heat Recovery Unit - 30 KL/Day, RO Reject - 88 KL/Day and safety showers - 4.5 KL/Day; hence total 207.5 KL/Day shall be treated in the ETP consisting of primary, secondary & tertiary treatment facilities.	• **Complied** • Industrial Effluent generated from Chloromethanes plant, VRC Unit & Heat recovery unit, RO reject, Safety Showers are treated in ETP. • For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
4	Domestic wastewater generation shall be 12.5 KL/Day and it shall be treated in the ETP along with the industrial wastewater.	• **Complied** • Domestic Wastewater generation is not exceeded from 12.5 KLD and is being treated in ETP along with Industrial Wastewater.
5	The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the ETP outlet.	• **Complied** • The ETP is being operated regularly and efficiently to achieve GPCB norms at the ETP Outlet. • Also please note that the OCMS (Online Continuous monitoring system) is installed at outlet for continuous monitoring and it is connected with CPCB Server. Also weekly report sent by us to CPCB for the same. • Also the monthly monitoring of the same is being carried out by NABL & MoEFCC approved Laboratory.
6	The treated wastewater conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal in deep sea.	• **Not Applicable** • As per CCA received from GPCB, unit need to follow ZLD system. • The treated wastewater totally reused in plant process units and rejects used for Coal Sprinkling, Fly ash sprinkling, Dust suppression etc. Hence complied as per CCA Condition. • No Wastewater discharged into the GIDC underground drain for disposal in deep sea.
7	A Guard/ Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain.	• **Not Applicable** • As described in condition No. 6.
8	Online monitoring system shall be provided at final outlet of ETP for pH, TDS & TOC parameters and arrangement shall be made to reflect monitored data on server of the company, which can be accessed by the GPCB on real time basis. The unit shall also	• **Complied** • We have already installed online monitoring system at final outlet of ETP for pH & TOC parameters for existing ETP and the same can be accessed by the GPCB on real time basis.

Sr. No.	EC Conditions	Compliance status
	provide metering facility at the inlets and outlets of the ETP and maintain the records of the same.	• Meters are also installed at the inlets and outlets of the existing ETP and records are maintained on regular basis.
9	Proper logbooks of ETP operation and also showing the quantity of effluent generated, discharged into GIDC underground drain, utilized for plantation/ gardening etc. shall be maintained and furnished to the GPCB from time to time.	• **Complied** • Logbooks are maintained for the existing ETP and data are furnished to the GPCB from time to time.
10	Regular performance evaluation of the ETP shall be undertaken through credible institute and its records shall be maintained.	• **Complied** • Regular performance evaluation of the existing ETP is undertaken through credible institute and its records are being maintained.
11	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 GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC.	• **Complied** • We are and will be participating financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC. • We have also invested a special amount for a training & development of education program that has been initiated jointly by Paryavaran Vikas Kendra-Rajkot and Paryavaran Mitra Ahmedabad.
A.1.2	**AIR:**	
12	Hydrogen gas shall be used as a fuel in Volatile Reduction Chamber (VRC) whereas HSD shall be used as a fuel in the D. G. Set of 750 KVA proposed for new plants.	• **Noted & Complied** • Hydrogen gas is being used as a fuel in Volatile Reduction Chamber (VRC). • HSD is being used as a fuel in DG Set of 750 KVA.
13	Process emission shall be controlled with the air pollution control equipments (APCE) as mentioned below:	
	Hydro Chlorinator of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	• **Complied** • Condenser and Guard Condenser are provided with cooling water circulation for control of VOC in Hydro Chlorinator of Chloromethanes Plant.
	Crude CMS distillation column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	• **Complied** • Condenser and Guard Condenser are provided with cooling water circulation for control of VOC in Crude CMS distillation column of Chloromethanes Plant.
	Heavies CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	• **Complied** • Condenser and Guard Condenser are provided with cooling water circulation for control of VOC in Heavies CMS Distillation Column of Chloromethanes Plant.
	Volatile Reduction Chamber (VRC) of Chloromethanes Plant - Water and Caustic Scrubber for control of NOX, HCl & Cl2.	• **Complied** • Water and Caustic Scrubber are provided with Volatile Reduction Chamber (VRC) of Chloromethanes Plant for control of NOX, HCl & Cl2.
	Methanol column DT 111 of Fatty Alcohol Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	• **Not Applicable** • For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
	Crude Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrester for control of VOC.	• **Not Applicable** • For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
	Product Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrester for control of VOC.	
14	In Chloromethanes Plant, all vents after	• **Complied**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance status</th></tr>
<tr><td></td><td>guard condenser shall be directed to Volatile Reduction Chamber (VRC) Unit, where gases shall be incinerated. Water Scrubber followed by Caustic Scrubber shall be provided for control of emission from VRC.</td><td>• In Chloromethanes plant, all vents after guard condenser has been directed to Volatile Reduction Chamber (VRC) Unit, where gases have been inserted.
• Water Scrubber followed by Caustic scrubber has been provided for control of emission from VRC.
• Also please note that OCEMS is provided with VRC and connected with CPCB Server.</td></tr>
<tr><td>15</td><td>The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets. Adequate stack height as per prevailing norms shall be provided for process and flue gas emission.</td><td>• Complied
• The Air Pollution Control Equipment (APCE) attached with different stacks are operated efficiently and effectively to achieve the GPCB/ CPCB / MoEF&CC prescribed norms.
• We have provided adequate stack height of as per prevailing norms for the process emissions.
<table>
<tr><th>S. N.</th><th>Stack Attached to</th><th>Stack Height Provided</th></tr>
<tr><td>1</td><td>DG Set (750 KVA – 1 No.)</td><td>11 m</td></tr>
<tr><td>2</td><td>Volatile Reduction Chamber (VRC)</td><td>35 m</td></tr>
<tr><td>3</td><td>Hydro Chlorinator</td><td>35 m</td></tr>
<tr><td>4</td><td>Crude CMS Distillation</td><td>35 m</td></tr>
<tr><td>5</td><td>Heavies CMS Distillation</td><td>35 m</td></tr>
</table></td></tr>
<tr><td>16</td><td>Online monitoring system shall be installed on VRC stack to monitor HCl, Cl2 & NOX concentrations and arrangement shall be made to reflect monitored data on server of the company, which can be accessed by GPCB on real time basis.</td><td>• Complied
• Online Monitoring system has been installed on VRC stack to monitor HCl, Cl_2 & NO_x concentration and also it is connected with GPCB/CPCB Server.</td></tr>
<tr><td>17</td><td>The fugitive emission in the work area 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).</td><td>• Complied
• Workplace monitoring is being carried out on monthly basis to monitor fugitive emissions in CMS plant through NABL & MoEFCC approved Laboratory.
• All the parameters are well within the permissible limit.</td></tr>
<tr><td>18</td><td>Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy, through credible institutes and its records shall be maintained.</td><td>• Complied
• Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained.</td></tr>
<tr><td>19</td><td>Regular monitoring of ground level concentration of CS2, H2S, SO2, NOX, Cl2, PM10 and PM2.5 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 Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.</td><td>• Complied
• Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained.
• If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately.
• The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB.
• There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).</td></tr>
<tr><td>A.1.3</td><td colspan="2">HAZARDOUS/ SOLID WASTE:</td></tr>
<tr><td>20</td><td>The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste</td><td>• Complied</td></tr>
</table>

Sr. No.	EC Conditions	Compliance status
	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 must be obtained for collection/ treatment/ storage/ disposal of hazardous wastes.	• We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes. **Authorization No.** AWH-134967 **Validity** 01/03/2029 • We have provided separate covered storage area for different types of wastes. • We are member CHWIF & TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And M/s. Safe Enviro Infrastructure Ltd.. • Copy of the membership certificate is attached as **Annexure 3.** • Also please note that for HCl, DSA and other haz waste selling under Rule 9 only with GPS AIS 140 Mounted & colour coded vehicles through Manifest system.
21	The Hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	• **Complied** • We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal.
22	The unit shall dispose ETP Sludge and Spent Carbon from Chloromethanes and Fatty Alcohol Plants at the nearest common TSDF.	• **Complied** • We are member of TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And M/s. Safe Enviro Infrastructure Ltd and Shesh Enviro Ltd
23	Exhausted Resin and Spent Catalyst shall be sent back for regeneration or reactivation.	• **Complied** • Exhausted Resin & Spent Catalyst are being sent back for Regeneration or reactivation.
24	Used oil shall be sold only to the registered recyclers.	• **Complied** • Used Oil is being sold to Registered recycler under Rule 9.
25	Discarded Containers / barrels / bags / liners shall be either reused or sold only to the authorized recyclers after decontamination.	• **Complied** • Discarded Containers / barrels / bags / liners are being sold to authorized recyclers under Rule 9.
26	Exhausted Batteries of UPS shall be managed as per the provisions of the Batteries (Management & Handling) Rules, 2001 as amended in 2010	• **Complied** • Exhausted Batteries of UPS handled as per the provisions of the Batteries (Management & Handling) Rules, 2001 as amended in 2010.
27	E-waste from Plant Electronic system shall be managed as per the provisions of the E-waste management and handling Rules 2011.	• **Complied** • E-waste from Plant Electronic system managed as per the provisions of the E-waste management and handling Rules 2011.
28	Exhausted insulating materials shall be sold to authorized recyclers.	• **Complied** • Exhausted insulating materials are sold to authorized recyclers under Rule 9.
A.1.4	**SAFETY:**	
29	Provisions of the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1986 & Factories Act, 1948 shall be strictly complied with.	• **Complied** • We are following MSHIC Rules, 1989 and Factories Act, 1948. • All the chemicals/ materials are stored in the storage tanks with required material of Construction. • Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines. • Fire Hydrant system is provided nearby storage and handling area for emergency purpose. • Safety trainings are provided to all the operators and workers working in such areas. • Hazard Identification and Risk Assessment (JSA) of

Sr. No.	EC Conditions	Compliance status
		all activities carried out and SOPs are prepared accordingly. • Safety showers are provided nearby storage areas.
30	A well designated fire hydrant system shall be installed as per the prevailing standards.	• **Complied** • We have installed designated fire hydrant system for the Chloromethanes plant. • For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this product in upcoming EC Application.
31	All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.	• **Complied** • All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report are implemented.
32	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals, especially chlorine, hydrogen, HCl etc.	• **Complied** • We have developed job safety analysis procedure and trainings have been provided to all employees. • Proper controls are provided to mitigate any emergency.
33	Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risks generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks/ containers instead of one single large capacity tank for safety purpose.	• **Complied** • Storage of hazardous chemicals is minimized and stored in multiple small capacity tanks / containers instead of one single large capacity tank / containers. • All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals.
34	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water	• **Complied** • For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas.
35	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. Close handling system for chemicals shall be provided.	• **Complied** • All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals.
36	Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check-up of the workers and keeping its record etc.	• **Complied** • OHC with availability of para-medical staff & ambulance is already available round the clock. • We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch.
37	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	• **Complied** • We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
38	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	• **Complied** • We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
39	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	• **Complied** • Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. • We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site. • We have made six different sub committees of

Sr. No.	EC Conditions	Compliance status
		Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system.
40	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.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out. • 100% employees undergo with occupational health surveillance every 6 month/ 12 month depending on exposure. • Record is available with Occupational Health Centre. Sample report is attached as **Annexure 6.**
41	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	• **Complied** • Handling and charging of the chemicals are in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
42	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	• **Complied** • We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
A.1.5	**NOISE:**	
43	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.	• **Complied** • The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. • The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules. Third party ambient noise monitoring is carried out by NABL accredited laboratory.
A.1.6	**CLEANER PRODUCTION AND WASTE MINIMIZATION:**	
44	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 carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
45	The company shall undertake following waste minimization measures: a) Metering and control of quantities of active ingredients to minimize waste.	• **Complied** • We have provided flow meters for wastewater generation. • We have installed RO system for reducing the effluent. • Recycle steam and vapour condensate is used in process & cooling tower. • We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
	b) Reuse of by-products from the process as raw materials substitutes in other process.	• **Complied** • Use of waste chlorine gas for producing CMS Products. • Vapour condensate from flaking plant treated by polishing unit and finally used as DM water.
	c) Use of automated and enclosed filling to minimize spillages.	• **Complied** • We are using automated and closed filling to minimize spillages.
	d) Use of close feed system into batch reactors.	• **Complied** • We are using close feed system into batch reactors.

Sr. No.	EC Conditions	Compliance status
	e) Dry cleaning / mopping of floor instead of floor washing.	• **Complied** • Floors are cleaned through mopping.
	f) Use of high pressure hoses for cleaning to reduce wastewater generation.	• **Complied** • High pressure hoses are used for cleaning and reduce the wastewater.
	g) Regular preventive maintenance for avoiding leakage, spillage etc.	• **Complied** • Regular preventive maintenance has been carried out to avoid leakages, spillages etc.
A.1.7	**GREEN BELT AND OTHER PLANTATION:**	
46	The unit shall develop and maintain green belt within premises as per the CPCB guidelines. In addition to this, the unit shall also take up adequate plantation on road sides and suitable open areas in the GIDC estate, nearby schools, gram panchayat areas and any other open areas in consultation with the GIDC / local bodies / GPCB and submit an action plan of plantation for next three years to the GPCB.	• **Complied** • We have developed greenbelt along with boundary wall & planted different plant species in campus area. • Plant species were selected as per the directives of CPCB & DFO.
47	Total 48000 nos. of trees shall be planted within the premises within next five years in addition to the existing 6113 nos. of trees & shrubs.	• **Complied** • Already 30,000 No. of trees have been planted within the premises and in nearby villages.
48	Drip irrigation system shall be used for the green belt development.	• **Complied** • Drip irrigation/ low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m^2 area is covered under drip irrigation & low angle sprinkler system.
B.	**OTHER CONDITIONS:**	
49	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 & Complied** • All pollution control systems installed in our plant are directly connected with process safety inter locks from DCS. • For ensure, all the safe requirements meet before any start up. • We are also following pre-start up safety review before restart of the system.
50	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.	• **Noted & Complied** • All the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) has been followed.
51	A separate Environment Management cell equipped with full-fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.	• **Complied** • A separate Environment Management Cell has been equipped with 2 Environment Officers under One Environment Head. • Also there is a separate budget allocated for Environment related activities.
52	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.	• **Complied** • Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
53	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	• **Complied** • We have provided RCC and / acid brick line flooring in the required areas.

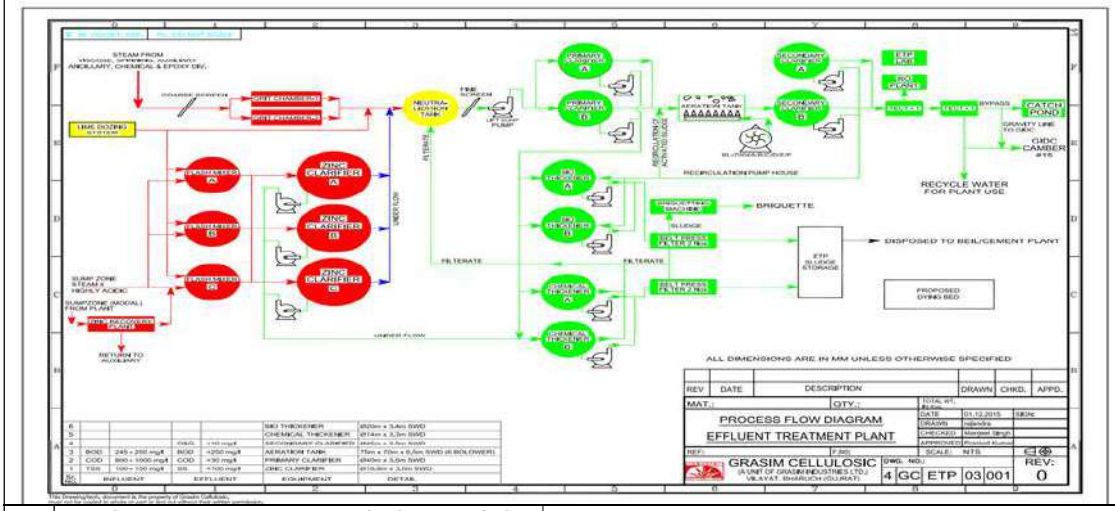
Sr. No.	EC Conditions	Compliance status
54	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	• **Complied** • We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
55	The project management shall also comply with all the environmental protection measures, risk mitigation measures and safeguards recommended in the EIA/ EMP report as well as other proposals made by them.	• **Complied** • All the environmental protection measures, risk mitigation measures and safeguards recommended in the EIA/ EMP report as well as other proposals are being complied.
56	The company shall undertake socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.	• **Complied** • Socio-economic developmental / community welfare activities are being carried out in consultation with the District Development Officer / District Collector.
57	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 of the environmental protection and management.	• **Noted & Complied** • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
58	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.	• **Noted** • We ensure that we shall not carry out any further expansion or modifications in the plant likely to cause environmental impacts without obtaining prior Environment Clearance from the concerned authority
59	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.	• **Complied** • Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
60	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA / 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.	• **Complied** • We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. Name of Paper: Times of India Date of Issue: 06.08.2014 In: English language Name of Paper: Divya Bhaskar Date of Issue: 06.08.2014 In: Gujarati language

Sr. No.	EC Conditions	Compliance status
	જાહેર નિવેદન પર્યાવરણ મંજૂરી આ સાથે જણાવવામાં આવે છે કે 'સ્ટેટ લેવલ એન્વિરોમેન્ટ ઈમ્પેક્ટ ઓથોરીટી' પર્યાવરણ ભવન સેક્ટર૧૦-એ ગાંધીનગર- ૩૮૨ ૦૧૦, ગુજરાત દ્વારા તેઓના પત્ર ક્રમાંક SEIAA/ GUJ/EC/5(f)/૯૦/૨૦૧૪ તારીખ ૦૧/૦૮/૨૦૧૪ ના રોજ મેસર્સ ગ્રાસીમ સેલ્યુલોઝિક (યુનિટ ઓફ ગ્રાસીમ ઈન્ડસ્ટ્રીઝ લિમિટેડ) ના પ્લોટ નં. ૧, જી.આઈ.ડી.સી., ઈન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાયત, જી.ભરુચ, ગુજરાતમાં ક્લોરોમીથેનસ અને ફેટી આલ્કોહોલના ઉત્પાદન માટેની યોજનાને S.O. ૧૫૩૩, EIA નોટિફિકેશન ૨૦૦૬, જાહેરનામા મુજબ એન્વિરોમેન્ટલ ક્લીઅરન્સ માટે અનુમતિ આપવામાં આવે છે. ઉપરોક્ત અનુમતિની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે. અને સદર અનુમતિને SEIAA/SEAC/GPCB ની વેબસાઈટ પર પણ મુકવામાં આવેલ છે. સહી/- મેસર્સ ગ્રાસીમ ઈન્ડસ્ટ્રીઝ લિમિટેડ પ્લોટ નં.૧, જી.આઈ.ડી.સી., ઈન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાયત, જી.ભરુચ, ગુજરાત	**PUBLIC NOTICE** **ENVIRONMENTAL CLEARANCE** It is hereby informed that the State Level Environment Impact Assessment Authority, ParyavaranBhavan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/ GUJ/EC/5(f)/90/2014dated 01/08/2014 has accorded Environment Clearance to M/s. Grasim Cellulosic (A unit of Grasim Industries Ltd.) for installation of Chloromethanes and Fatty Alcohol production unit at Plot No. 1, GIDC Industrial Estate, Vilayat, Dist: Bharuch, Gujarat as per applicable provisions of the S.O. 1533, EIA Notification, 2006. Copies of the clearance letters are available with Gujarat Pollution Control Board and may also be seen on the website of SEIAA/ SEAC/GPCB. Sd/- **M/s. Grasim Industries Ltd.** Plot No.1, GIDC Industrial Estate, Vilayat, Dist: Bharuch, Guajarat
61	It shall be mandatory for all the project management to submit half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	• **Complied** • We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
62	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• **Noted** • We shall comply with the stipulations made by the Gujarat Pollution Control Board.
63	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 & Complied** • The date of financial closure and final approval of the project by the concerned authorities and the date of starting the project are: • Date of financial closure: 31st March 2014 • Date of final approval of the project by the concerned authorities: 26th June 2013
64	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	• **Noted** • We have been complying the conditions issued by the SEIAA. No suspension order issued by the SEIAA till date.
65	The company in a time bound manner shall implement these conditions. The SEIAA reserves the tight to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974. Hazardous waste (Management Handling and Transboundary Movement) Rules 2008 and the public liability Insurance Act, 1991 along with their amendments and rules.	• **Complied** • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
66	This environmental clearance is valid for five years from the date of issue.	• **Noted** • The EC has already being converted into CCA..
67	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.	• **Not Applicable** • There is no appeal against this environmental clearance lie with the National Green Tribunal.

Compliance status of Environmental Clearance vide Letter No.: SEIAA/GUJ/EC/5(f) & 4(d)/642/2016 dated 29th Oct 2016

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>The proposal is for Environmental Clearance to M/s. Grasim Industries Ltd. for setting up of the proposed expansion of manufacturing of Caustic Soda Lye plant and Synthetic Organic chemical plant located at Plot No. 1, GIDC Industrial Estate, Vilayat, District: Bharuch. It is an existing unit for manufacturing following products, which falls in the category - 5(f) & 4(d) of the schedule of the EIA Notification-2006.
<table>
<tr><th rowspan="2">S. no.</th><th rowspan="2">Name of Product</th><th colspan="3">Production capacity (MT/ Annum)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Chlorinated Paraffin wax</td><td>36500</td><td>33500</td><td>70000</td></tr>
<tr><td>2</td><td>Caustic Soda Lye</td><td>219000</td><td>146000</td><td>365000</td></tr>
<tr><td>3</td><td>Poly Aluminum Chloride</td><td>146000</td><td>104000</td><td>250000</td></tr>
<tr><td>4</td><td>Aluminum Chloride</td><td>14600</td><td>10400</td><td>25000</td></tr>
<tr><td>5</td><td>Stable Bleaching Powder</td><td>36500</td><td>24500</td><td>61000</td></tr>
<tr><td>6</td><td>Hydrogen</td><td>61320000 (Nm3)</td><td>40880000 (Nm3)</td><td>102200000 (Nm3)</td></tr>
<tr><td>7</td><td>Liquid chlorine/ Sodium Hypochlorite/ Hydrochloric Acid</td><td>197100</td><td>131400</td><td>328500</td></tr>
</table></td><td>• Noted
• Latitude: 21°46’8” and 21°47’11” North
• Longitude: 72°53’18” and 72°54’49” East
• Copy of Environment Clearance is attached as Annexure-1.</td></tr>
<tr><td></td><td></td><td>
<table>
<tr><th rowspan="2">Sr. no.</th><th rowspan="2">Name of Product</th><th colspan="6">Production qty. (MT/M)</th></tr>
<tr><th>Apr-25</th><th>May-25</th><th>Jun-25</th><th>Jul-25</th><th>Aug-25</th><th>Sep-25</th></tr>
<tr><td>1</td><td>Chlorinated Paraffin wax</td><td>3382</td><td>3827</td><td>3508</td><td>3025</td><td>2913</td><td>2310</td></tr>
<tr><td>2</td><td>Caustic Soda Lye</td><td>31915</td><td>31621</td><td>30375</td><td>29164</td><td>30132</td><td>23578</td></tr>
<tr><td>3</td><td>Poly Aluminum Chloride</td><td>16766</td><td>17795</td><td>15075</td><td>15700</td><td>17787</td><td>16196</td></tr>
<tr><td>4</td><td>Aluminum Chloride</td><td>1590</td><td>1643</td><td>1622</td><td>1780</td><td>1776</td><td>1650</td></tr>
<tr><td>5</td><td>Stable Bleaching Powder</td><td>2380</td><td>2128</td><td>2300</td><td>2192</td><td>2408</td><td>1989</td></tr>
<tr><td>6</td><td>Hydrogen</td><td>2157488</td><td>2410187</td><td>2313053</td><td>2251490</td><td>2105030</td><td>1933260</td></tr>
<tr><td>7</td><td>Liquid chlorine/ Sodium Hypochlorite / HCl</td><td>29553</td><td>29322</td><td>28303</td><td>27203</td><td>27914</td><td>21849</td></tr>
</table></td><td></td></tr>
<tr><td>A.</td><td colspan="2">CONDITIONS:</td></tr>
<tr><td>A.1</td><td colspan="2">SPECIFIC CONDITION:</td></tr>
<tr><td>1</td><td>The Unit shall obtain requisite permission from PESO, Nagpur for storage of Chlorine, Hydrogen etc. before commissioning of the project.</td><td>• Complied
• We have obtained requisite permission from Petroleum & Explosives Safety Organization (PESO), Nagpur before commissioning of the project. Copy of</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>PESO License are attached as Annexure-2.</td></tr>
<tr><td>A.2</td><td>WATER:</td><td></td></tr>
<tr><td>2</td><td>Total water requirement after proposed expansion shall not exceed 6500 KL/day for the Synthetic Organic Chemicals and Caustic Lye plant. Unit shall recycle / reuse 400 KL/day of waste water within Synthetic Organic Chemicals and Caustic Lye plants. Hence, fresh water requirement shall not exceed 6100 KL/day. Fresh water shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.</td><td>• Complied
• Average water consumption for Apr 2025 to Sept 2025 is 11339 KLD, sourced from GIDC water supply for the Synthetic Organic Chemicals and Caustic Soda Lye plant.
<table>
<tr><th rowspan="2">Month</th><th>Water Consumption</th><th>Water Recycle / Reuse</th></tr>
<tr><th>KL/Month</th><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>365901</td><td>55404</td></tr>
<tr><td>May-25</td><td>353594</td><td>58699</td></tr>
<tr><td>Jun-25</td><td>342686</td><td>52322</td></tr>
<tr><td>Jul-25</td><td>340765</td><td>52439</td></tr>
<tr><td>Aug-25</td><td>353885</td><td>46910</td></tr>
<tr><td>Sep-25</td><td>318122</td><td>37358</td></tr>
<tr><td>Min</td><td>318122</td><td>37358</td></tr>
<tr><td>Max</td><td>365901</td><td>58699</td></tr>
<tr><td>Avg</td><td>345825</td><td>50522</td></tr>
</table>
• We are recycling/reuse ~1656 KL/Day of waste water within Synthetic Organic Chemicals and Caustic Soda Lye plants.
• Following are the GIDC offer cum allotment letter details:
<table>
<tr><th>Sr. no.</th><th>Letter no.</th><th>Water supply</th><th>Effluent discharge</th></tr>
<tr><td>1</td><td>GIDC/PROJ/MKT/GRASIM/575 Dated 6th December 2006</td><td>15.60 MLD</td><td>12.48 MLD</td></tr>
<tr><td>2</td><td>GIDC/SE/CG/BRH/1236 Dated 29th December 2016</td><td>25 MLD</td><td>19.4 MLD</td></tr>
<tr><td>3</td><td>GIDC/ENG/CE/34 Dated 9th October 2017</td><td>55-56 MLD</td><td>--</td></tr>
<tr><td>4</td><td>GIDC/BRH/DEE (DRG)/659</td><td>--</td><td>23 MLD</td></tr>
</table>
Copy of agreement letter is attached as Annexure-4.</td></tr>
<tr><td>3</td><td>The water meter shall be installed and records of daily and monthly water consumption shall be maintained.</td><td>• Complied
• We have installed Water Meter at the inlet. Logbook is maintained to record the water consumption.</td></tr>
<tr><td>4</td><td>Total industrial waste water generation from Synthetic Organic Chemicals and Caustic Lye plant shall not exceed 600 KL/day.</td><td>• Complied
• Average Industrial Waste water generation for Apr 2025 to Sept 2025 is 3093 KL/Day as in our current CCA we have permission of 3759.1 KLD waste water discharge.
<table>
<tr><th rowspan="2">Month</th><th>Waste water generation</th></tr>
<tr><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>95483</td></tr>
<tr><td>May-25</td><td>99542</td></tr>
<tr><td>Jun-25</td><td>95106</td></tr>
<tr><td>Jul-25</td><td>96277</td></tr>
<tr><td>Aug-25</td><td>95998</td></tr>
<tr><td>Sep-25</td><td>83616</td></tr>
<tr><td>Min</td><td>83616</td></tr>
<tr><td>Max</td><td>99542</td></tr>
<tr><td>Average</td><td>94337</td></tr>
</table>
• Note: Water Consumption and Wastewater generation is as per our existing CCA vide Order No. AWH-134967 dated 01/03/2029.</td></tr>
<tr><td>5</td><td>Unit shall treat the additional effluent in their existing ETP having capacity 35 MLD comprises of primary & secondary treatment plants.</td><td>• Complied
• After primary treatment, neutralized effluent is sent to SFD plant ETP comprising of primary & secondary treatment facility.
• The industrial effluent is treated in the ETP</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
		consisting Zinc Clarifier, tanks (3.0 Nos.), Grit Chambers (3.0 Nos.), Primary Clarifier (2.0 Nos.), Equalization Tank, Biological Reactor, Final Clarifiers (2.0 Nos.) Thickeners (2.0 Nos.) Belt Press (2.0 Nos.) and sludge Dryers (6.0 Nos.). • ETP is operated regularly and efficiently to achieve the prescribed GPCB norms at the ETP outlet.
Effluent Treatment Plant PFD		
6	Total quantity waste water discharge of the group companies (i.e. Chemical division + Cellulosic division + Epoxy division) shall not exceeds 19.4 MLD at any time. The treated waste water conforming to the GPCB/ CPCB/ MoEF&CC norms shall be discharged into the GIDC underground drain for its final disposal into the deep sea.	• **Complied** • Total quantity waste water discharge of the group companies (i.e. Chemical division + Cellulosic division + Epoxy division) does not exceed 25 MLD. • The treated waste water confirming to the GPCB/ CPCB/ MoEF&CC norms are discharged into GIDC underground pipeline for final disposal to deep sea through GIDC.
7	A Guard/ Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain. The unit shall provide on line pH meter, TDS meter & TOC meter for online monitoring of the treated effluent.	• **Complied** • We have provided 2 Nos. of guard ponds, each of (L: 90m, B: 60m, SWD: 6.5m) equivalent to 50,000 m3 capacity provided, (suitable for storage of 48 hrs) before discharge of treated effluent into GIDC drain. • As per CCA condition, we have installed Online pH meter, flow meter & TOC meter are provided for monitoring of the treated effluent. 
8	Additional domestic waste water (40 KL/day) shall be treated in existing STP (Capacity 140 m3/day) and treated sewage shall be used for gardening-plantation within premises.	• **Complied** • Additional domestic wastewater is treated in STP and average domestic wastewater generation for Apr 2025 to Sept 2025 is 322 KL/Day. **Month** | **Domestic**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th></th><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>6647</td></tr>
<tr><td>May-25</td><td>8149</td></tr>
<tr><td>Jun-25</td><td>7119</td></tr>
<tr><td>Jul-25</td><td>7174</td></tr>
<tr><td>Aug-25</td><td>9035</td></tr>
<tr><td>Sep-25</td><td>9234</td></tr>
<tr><td>Min</td><td>6647</td></tr>
<tr><td>Max</td><td>9234</td></tr>
<tr><td>Avg</td><td>7889</td></tr>
</table>
• Note: Water Consumption and Wastewater generation is as per our existing CCA vide Order No. AWH-134967 dated 01/03/2029.
</td></tr>
<tr><td>9</td><td>During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, treated sewage (40 KL/day) shall be stored in guard pond / polishing pond within premises. This additional treated sewage (40 KL/day) shall not be discharged in any case.</td><td>• Complied
• During monsoon season, the treated sewage is stored in existing guard pond / polishing pond.</td></tr>
<tr><td>10</td><td>The unit shall provide adequate effluent treatment plant (ETP) & STP and it shall be operated regularly and efficiently so as to achieve desired norms prescribed by MoEF&CC/ CPCB/ GPCB.</td><td>• Complied
• We have provided primary treatment facility (neutralization pit) in our unit and then neutralized effluent is sent to SFD plant ETP comprising of primary & secondary treatment facility. We have installed STP as per following specification:
Design Capacity of STP: 1080 m3/day.
Design Basis:
Flow: 1080 m3/day.
BOD: 250-270 mg/l.
COD: 400-600 mg/l
TSS: 400 mg/l
pH: 6 - 9
• We are operating our ETP & STP regularly and efficiently so as to achieve desired norms prescribed by MoEF&CC / CPCB / GPCB.</td></tr>
<tr><td>11</td><td>A separate electric meter shall be placed for the ETP & STP system. Proper logbook of ETP & evaporator operations also showing chemicals consumed, treated water reused, power consumed etc. shall be maintained and furnished to the GPCB from time to time.</td><td>• Complied
• We have provided metering facility at inlet & outlet of the ETP & STP and maintain the records of the same regularly.
• Proper logbooks of ETP operations is maintained, also maintaining chemicals consumed, treated water reused, power consumed etc. and submitted in the Monthly Patrak on GPCB XGN.</td></tr>
<tr><td>12</td><td>Regular performance evaluation of the ETP & STP shall be undertaken every year to check its adequacy, through credible institutes of National repute and its records shall be maintained.</td><td>• Complied
• Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained. Copy of is attached as Annexure-7.</td></tr>
<tr><td>13</td><td>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.</td><td>Complied
• Rainwater is recovered from roof tops and stored in a rain water harvesting well.
• We have already installed 10 nos. of Rain water harvesting station at nearby villages like, Sachan Village, Saran Village, Saykha Vilalge, Derol, Asmita Vikas Kendra, Rahad Primary school, Ankot Primary school, Smt. M.M.M. Patel vidhyalaya, Pisad primary school, Saladra Primary school.
• We are exploring more possibilities for rainwater harvesting in nearby area in consultation with a Geo-</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
		hydrology expert.
		
14	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 GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	• **Complied** • We are and will be participating financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC. • We have also invested a special amount for a training & development of education program that has been initiated jointly by Paryavaran Vikas Kendra-Rajkot and Paryavaran Mitra Ahmedabad.
A.3	**AIR:**	
15	The excess steam requirement (100 MT/Day) shall be met by generating the same with clean fuel i.e. Hydrogen at the rate of 30000 Nm3 per day in a 10 ton/hour and 10 kg/cm2 capacity of hydrogen boiler.	• **Complied** • We have installed plant such as PAC, Caustic Soda flakes and Calcium Chloride in which 98% of generated hydrogen is being consumed as a clean fuel. • Hence we do not have sufficient hydrogen to run the boiler based on that we have removed Hydrogen Boiler from our plant and informed to Boiler inspector.
16	Process emission shall be controlled with the air pollution control equipment's (APCE) as mentioned below.	
	a) Sodium Hypo stack of Caustic Plant - Alkali scrubber for control of Cl2.	• **Complied** • We have provided Alkali scrubber for control of Cl_2 in Sodium Hypo Stack. • Online monitoring system is also provided and it is connected to CPCB & GPCB server.
	b) HCl stack-1 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.	• **Complied** • We have provided separate Water scrubber having bubble cap tray absorption system for control of HCl in both the stacks.

Sr. No.	EC Conditions	Compliance Status
		• Online monitoring system is also provided and it is connected to CPCB & GPCB server.
	c) HCl stack-2 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.	• **Complied** • We have provided separate Water scrubber having bubble cap tray absorption system for control of HCl in both the stacks. • Online monitoring system is also provided and it is connected to CPCB & GPCB server.
	d) Poly Aluminium Chloride Liquid - Water scrubber system for control of HCl & Cl2.	• **Complied** • We have provided water scrubber system for control of HCl & Cl2.
	e) Poly Aluminium Chloride Powder - 3 stage Water scrubber system for control of HCl & Cl2.	• **Complied** • We have provided 3 stage water scrubber system for control of HCl & Cl2.
	f) Chlorinated paraffin Plant - Alkali Scrubbing system for control of HCl & Cl2.	• **Complied** • We have provided Alkali Scrubbing system for control of HCl & Cl2.
	g) Aluminium Chloride - Alkali Scrubbing system for control of HCl & Cl2.	• **Complied** • We have provided Alkali Scrubbing system for control of HCl & Cl2.
	h) Stable Bleaching Powder - Alkali Scrubbing system for control of HCl & Cl2.	• **Complied** • We have provided Alkali Scrubbing system for control of HCl & Cl2.

Apr 25 to Sept 25					
Stack	Range	HCl mg/Nm3	Cl2 mg/Nm3	HF mg/Nm3	PM mg/Nm3
Sodium Hypo Stack 1	Min	-	2.50	-	-
	Max	-	3.00	-	-
	Avg	-	2.75	-	-
Sodium Hypo Stack 2	Min	-	1.10	-	-
	Max	-	1.60	-	-
	Avg	-	1.35	-	-
HCl Stack 1	Min	5.80	-	-	-
	Max	6.50	-	-	-
	Avg	6.15	-	-	-
HCl Stack 2	Min	4.70	-	-	-
	Max	6.90	-	-	-
	Avg	5.80	-	-	-
HCl Stack 3	Min	3.90	-	-	-
	Max	5.30	-	-	-
	Avg	4.60	-	-	-
HCl Stack 4	Min	4.00	-	-	-
	Max	4.50	-	-	-
	Avg	4.25	-	-	-
PAC Liquid Plant	Min	1.40	4.30	-	-
	Max	1.80	5.60	-	-
	Avg	1.60	4.95	-	-
PAC Powder Plant 1	Min	5.20	3.10	-	-
	Max	7.20	4.40	-	-
	Avg	6.20	3.75	-	-
PAC Powder Plant 2	Min	6.80	3.50	-	-
	Max	7.60	4.30	-	-
	Avg	7.20	3.90	-	-
Chlorinated Paraffin Plant	Min	2.50	3.20	-	-
	Max	3.40	4.70	-	-
	Avg	2.95	3.95	-	-
Alluminium Chloride	Min	3.40	3.40	-	-
	Max	4.20	4.50	-	-
	Avg	3.80	3.95	-	-
Stable Bleaching Powder Plant	Min	3.20	5.10	-	-
	Max	3.80	5.60	-	-

Sr. No.	EC Conditions	Compliance Status

		Avg	3.50	5.35	-	-
	Vent attached to Dryer 1 (HSBP)	Min	-	-	-	6.10
		Max	-	-	-	11.40
		Avg	-	-	-	8.75
	Vent attached to Dryer 2 (HSBP)	Min	-	-	-	5.10
		Max	-	-	-	6.20
		Avg	-	-	-	5.65
	CMS Plant (Hydro chlorinator)	Min	6.40	-	-	7.30
		Max	7.30	-	-	7.30
		Avg	6.85	-	-	7.30

17	The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB/ CPCB/ MoEF&CC at stack outlets. Adequate stack height as per prevailing norms shall be provided for the process emissions. At no time, emission level should go beyond the stipulated standards.	• **Complied** • The Air Pollution Control Equipment (APCE) attached with different stacks are operated efficiently and effectively to achieve the GPCB/ CPCB / MoEF&CC prescribed norms. • We have provided adequate stack height as per prevailing norms for the process emissions.
18	Online monitoring system shall be installed to monitor at least SOX & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.	• **Complied** • We have installed Online monitoring system to monitor SOX, NOX & PM concentrations in both the stacks of power plant. • The results are displayed in the DCS system of power plant.
19	Adequate air pollution control systems shall be provided as proposed for control of fugitive emission viz. water sprinklers at all coal transfer points and truck unloading points, dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc.	• **Complied** • We have installed Dust tamers to control coal dust emission. • Water sprinklers are provided to control the fugitive emission at coal storage, coal transfer points and truck unloading area. • We have provided dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc. • Fly ash is stored in silo and transferred in close trucks to avoid any dust emission.
	  	
20	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).	• **Complied** • Fugitive emissions in work zone environment & storage area are monitored by third party on monthly basis and are well within GPCB stipulated norms.
21	Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy, through credible institutes of national repute, and its records shall be maintained.	• **Complied** • Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained. Copy of is attached as **Annexure-7.**
22	Regular monitoring of ground level	• **Complied**

Sr. No.	EC Conditions	Compliance Status
	concentration of PM10, PM2.5, SO2, Cl2, HCl & VOC 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 Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.	• Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained. • If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately. • The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB. • There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).
23	The air pollution control systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB/ CPCB/ MoEF&CC at vent/ stack outlets.	• **Complied** • The air pollution control systems are operated efficiently and effectively to achieve the norms prescribed by the GPCB/ CPCB/ MoEF&CC at vent/ stack outlets.
24	Fugitive emissions of VOC's must be regularly monitored. Sensors for detecting VOC's shall be provided at strategic locations. Leak Detection and Repair (LDAR) Programme shall be implemented to control VOC emissions.	• **Not Applicable** • Volatile Organic Compounds are not used in our plant hence we are not monitoring VOC's.
25	All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	• **Complied** • All the vessels used in the manufacturing process are closed to reduce the fugitive emission.
A.4	**SOLID / HAZARDOUS WASTE:**	
26	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 must be obtained for collection / treatment / storage / disposal of hazardous wastes.	• **Complied** • We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes. **Authorization No.** AWH-134967 **Validity** 01/03/2029 • We have provided separate covered storage area for different types of wastes. Photograph of the waste storage area as per below: • We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro Infrastructure Ltd. • Copy of the membership certificate is attached as **Annexure-3.**
	Waste Storage Area 	
27	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.	• **Complied** • We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal. • Photograph of sludge storage area:

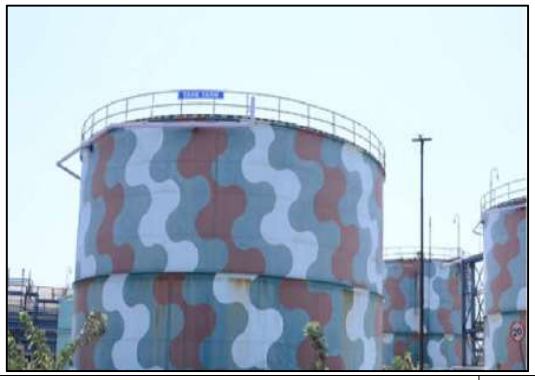
Sr. No.	EC Conditions	Compliance Status
		
28	ETP waste, Brine / process Sludge, Spent Resin & Spent carbon from filters will be disposed off at the nearby common TSDF.	• **Complied** • We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro Infrastructure Ltd. • Copy of the membership certificate is attached as **Annexure-3.**
29	Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination.	• **Complied** • We are disposing Discarded barrels / containers / bags / liners to GPCB approved registered recyclers only.
30	Used oil shall be sold only to the registered recyclers.	• **Complied** • Used Oil is sold to Registered recyclers only.
31	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.	• **Complied** • We are a member of TSDF & CHWIF site operated by Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro Infrastructure Ltd. • Copy of the membership certificate is attached as **Annexure-3.**
32	Vehicles 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** • We are complying with rules under Motor Vehicle Act, 1988 for transportation of hazardous waste. • Photograph of Hazardous Waste disposal Tanker:

Sr. No.	EC Conditions	Compliance Status
		
33	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/ CHWIF.	• **Complied** • We have explored Nano technology such as Sulphate Extraction System to reduce the quantity of sludge generated from Chlor-alkali plant by 30%. Further we have also installed sludge dryer for drying of sludge.
A.5	**SAFETY:**	
34	The company shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended.	• **Complied** • We are following MSHIC Rules, 1989 and Factories Act, 1948. • All the chemicals/ materials are stored in the storage tanks with required material of Construction. • Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines. • Fire Hydrant system is provided nearby storage and handling area for emergency purpose. • Safety training s are provided to all the operators and workers working in such areas. • Hazard Identification and Risk Assessment (JSA) of all activities carried out and SOPs are prepared accordingly. • Safety showers are provided nearby storage areas.
35	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 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.	• **Complied** • We are complying with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. has been obtained. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities obtained before commissioning of the project. Copy of PLI policy is attached as **Annexure-5.** • Requisite On-site and Off-site Disaster Management Plans prepared and implemented.
36	All the recommendations/ commitments made in the revised EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad and submitted vide letter No. NIL	• **Complied** • All the recommendations/ commitments made in the revised EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad have been

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>dated 29/06/2016 shall be implemented in letter and spirit.</td><td>implemented.</td></tr>
<tr><td></td><td colspan="2">
<table>
<tr><th>Description</th><th>Type of pollutant / Wastes</th><th>Source</th><th>Pollution control Arrangement / mitigation measures</th><th>Compliance measure</th></tr>
<tr><td rowspan="3">Air Envirnoment</td><td>PM , SO2, Nox</td><td>Boiler</td><td>• ESP and low Nox burner are provided to control the particulate matter and Nox respectively
• Lime stone are be added to reduce SO2 emissions</td><td>• We have installed ESP & Low NOx Burner with our boiler stack to control the particulate matter and Nox respectively.
• We are using lime stone to reduce emission of SO2</td></tr>
<tr><td>CL2, HCL</td><td>Process</td><td>• Alkali scrubber and waste scrubber are provided to control the process gas emission</td><td>• We have installed Alkali Scrubber & Water Scrubber to reduce process gas emission</td></tr>
<tr><td>HCL , CL2

CO2 and other gases</td><td>Fugitive emission from equipment leak valves, flanges, pump seal, compressors, sampling connection, open ended lines

Fugitive emission from sources such as ope surfaces, ETP, sufaces impoundments, retention ponds.</td><td>• Leak proof technology for valve and pumps
• Plugss, caps and blinds for open ended lines .
• Rupture discs and soft seals for pressure valves .
• Dual mechanical seal with Non – VOC barrier fluid / degassing system .
• Closed loop sampling syatem
• Enclosure of seal area double condenser system are provided .
• The vents of the secondary condenser connected with the scrubber .
• Covering of all open surfaces wherever possible .
• Sensors are provided in work place area .</td><td>• We have installed Leak proof technology for valve and pumps
• We have provided Plugs, caps and blinds for open ended lines
• We have provided Rupture discs and soft seals for pressure valves
• We have provided Dual mechanical seal with Non – VOC barrier fluid / degassing system
• Closed loop sampling syatem is provided
• Enclosure of seal area double condenser system are provided
• The vents of the secondary condenser connected with the scrubber
• All open surfaces are covered
• Sensors have been provided in work place area.</td></tr>
<tr><td>Water Envirnoment</td><td>Low pollution potential</td><td>Domestic waste water</td><td>• Domestic effluent is in Sewage Treatment Plant (STP) and treated wastewater is used for gardening purposes .</td><td>• Domestic effluent is treated in Sewage Treatment Plant (STP) and treated wastewater is used for gardening purposes.</td></tr>
<tr><td>Noise Envirnoment</td><td>Structre - borne noise: the vibration transmitted may activate the building where it mouted without proper installation. Air borne noise due to air turbulence at equipment / structre and etc.</td><td>Vechile , Transporation, Water Cooling Towers, Air - cooled chillers, Fans, Ducts, Others plant equipment & machinery .</td><td>• To reduce the noise generation durning the transportation activites the vechile are kept periodically services and maintained as per the requirement of latest trends in automobile industry .
• Acoustic mat on the water surface is provided to reduce the water splashing noise .
• All the vibrating parts is checked periodically and serviced to reduce the noise generation .
• Complete enclosure with silencers at condenser fan outlets and at air inlents of the enclosure is fabricated .
• Green belt is developed around the plant peripheral which act as a curtain / barrier between the plant and near by buildings.</td><td>• Vehicles are kept periodically services and maintained to reduce the noise generation durning the transportation
• Acoustic mat on the water surface have been provided to reduce the water splashing noise
• All the vibrating parts is checked periodically and serviced to reduce the noise generation
• Complete enclosure with silencers at condenser fan outlets and at air inlents of the enclosure is fabricated
• Green belt is being developed around the plant peripheral.</td></tr>
<tr><td>Biological Envirnoment</td><td>Particulate Emission</td><td>Manufacturing process and other ancillary activites</td><td>• Green belt is developed maintained (as per EB expert and CPCB guidelines) within the premises / around the premises to control the expected pollutant due to proposed project activity as well as to improve the aesthetic.
• Characteristic of plant mainly considered for affecting absorption of pollutant gases and removal of dust particle are as follows</td><td>• Green belt is developed & maintained as per EB expert and CPCB guidelines.</td></tr>
<tr><td>Land Envirnoment</td><td>Gaseous / Paticulate emission</td><td>Manufacturing process Transportation</td><td>• Treated effulent is meeting / conforming the stipulated standards / norms and is used for gardening / plantation proposes remnant is disposed in to sea through GIDC Vilayat pipe line .
• Pollution control devices / measure are installed / implemented properly to treat air & liquid effulent it is periodical checked / maintained. Solid / hazardous waste is collected , stored in a designated storage area with proper flooring before its final disposal</td><td>• Treated effulent is meeting / conforming the stipulated standards / norms is disposed in to sea through GIDC Vilayat pipe line and treated domestic wastewater is used for gardening / plantation within premises.
• Online Air & Water Monitoring System is installed for continuous monitoring. Solid / hazardous waste is being collected, stored in a designated storage area with proper flooring before its final disposal.</td></tr>
</table>
</td></tr>
<tr><td>37</td><td>All necessary precautionary shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals, especially chlorine, hydrogen, CS2, HCl etc.</td><td>• Complied
• We have developed job safety analysis procedure and trainings have been provided to all employees. Proper controls are provided to mitigate any emergency.</td></tr>
<tr><td>38</td><td>Storage of flammable chemicals shall be sufficiently away from the production area.</td><td>• Complied
• We have provided tanks and vessels to store hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS.
• Photograph of tank:</td></tr>
<tr><td></td><td colspan="2">   </td></tr>
<tr><td>39</td><td>Sufficient no. of fire extinguishers shall be provided near the plant and storage area.</td><td>• Complied
• Sufficient nos. of Fire extinguishers are provided.</td></tr>
<tr><td>40</td><td>All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals.</td><td>• Complied
• All necessary precautionary measures have been taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
41	All the toxic/ hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	• **Complied** • All the toxic/ hazardous chemicals stored in optimum quantity and all necessary permissions in this regard obtained before commencing the expansion activities.
42	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	• **Complied** • We have identified the environment protection measures & risks and take mitigate measures accordingly.
43	Only flame proof electrical fittings shall be provided in the plant premises.	• **Complied** • Flame proof electrical fittings are provided in the required plant area.
44	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** • Storage of hazardous chemicals is minimized and stored in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
45	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.	• **Complied** • All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals. Photograph of storage tanks:
		
46	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	• **Complied** • Handling and charging of the chemicals are in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
47	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	• **Complied** • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch.
48	Personal Protective Equipment's shall be provided to workers and its usage shall be ensured and supervised.	• **Complied** • We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
49	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	• **Complied** • We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
50	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	• **Complied** • Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. • We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site.

Sr. No.	EC Conditions	Compliance Status
		• We have made six different sub committees of Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system. • Please find below training calendar:
		
51	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.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out. • 100% employees undergo with occupational health surveillance every 6 month/ 12 month depending on exposure. Record is available with Occupational Health Centre. Sample report is attached as **Annexure-6.**
52	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	• **Complied** • We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
53	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	• **Complied** • The company will implement all preventive and mitigation measures suggested in the Risk Assessment Report.
54	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	• **Complied** • Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others are obtained prior to commissioning of the project.
A.6	**NOISE:**	
55	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.	• **Complied** • The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. • The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules. Third party ambient noise monitoring is carried out by NABL accredited laboratory.

ADITYA BIRLA GRASIM

Monthly Training Calendar

October 2025

Safety

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	External	Emergency Preparedness, Basic Fire Fighting & Practical demonstration ,Enablon training for BBSO, Near miss reporting	10-10-2025	8	30	30	EHS Team
All employees	External	Safety in Chemicals Handling	16-10-2025	4	15	15	EHS Team
All employees	External	PTW, Confined Space, Hot Work, Height Work & HIRA, LOTOTO	28-10-2025	8	30	30	EHS Team
All employees	External	PSM, PSE	23-10-2025	8	30	30	EHS Team

Compliance

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All Mgmt Cadre	Internal	MOC	27-10-2025	1	30	15	Shubham Tanpure
All Mgmt Cadre	Internal	MOC	18-10-2025	1	30	15	Shubham Tanpure
Applicable to all	Internal	Integrated Management System (ISO-9001,14001, 45001 & 50001)-Awareness Training	08-10-2025	2	30	15	Ms. Smita Ramteke

Functional

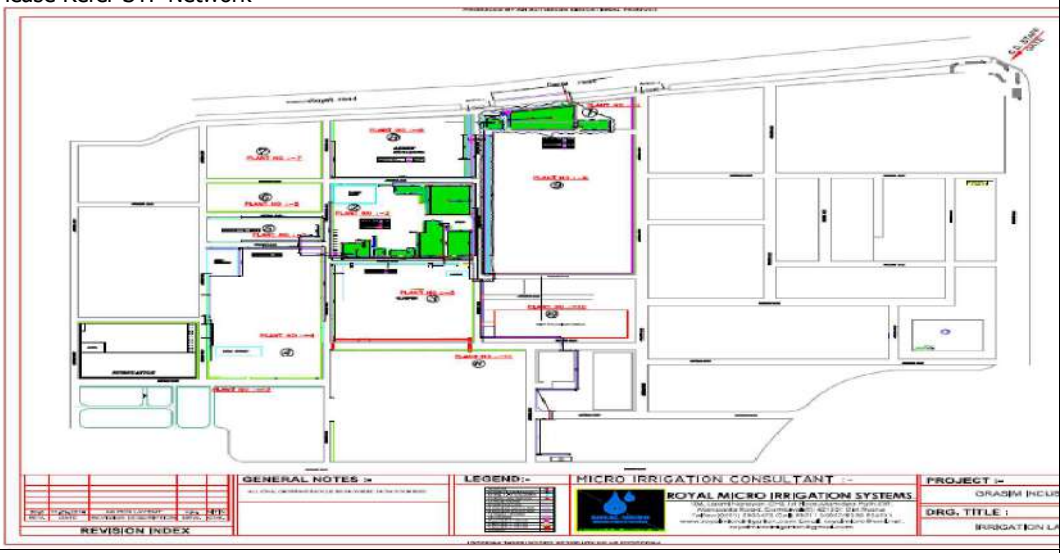
Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	Internal	AI & Excel analytics	YTD	8	30	30	Internal

Behavioural

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	Internal	ABG Values & Ethics	14-10-2025	1	30	15	Team HR

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
• Noise Monitoring Report is summarized as per below table:
<table>
<tr><th colspan="7">Noise Results (Apr 25 to Sept 25)</th></tr>
<tr><th></th><th colspan="6">Reading dB(A)</th></tr>
<tr><th>Station</th><th colspan="3">Day time</th><th colspan="3">Night time</th></tr>
<tr><th>Range</th><th>MIN</th><th>MAX</th><th>AVE</th><th>MIN</th><th>MAX</th><th>AVE</th></tr>
<tr><td>Nr. Main Security Gate</td><td>59.7</td><td>65.8</td><td>62.75</td><td>55.2</td><td>60.8</td><td>58</td></tr>
<tr><td>Nr. ALCP Plant</td><td>62.4</td><td>66.3</td><td>64.35</td><td>59.6</td><td>63.7</td><td>61.65</td></tr>
<tr><td>Nr. PAC Old Powder Plant</td><td>60.4</td><td>67.3</td><td>63.85</td><td>58.1</td><td>66.3</td><td>62.2</td></tr>
<tr><td>Nr. Cl2 Liquifaction Area</td><td>61.4</td><td>68.2</td><td>64.8</td><td>57.6</td><td>67.2</td><td>62.4</td></tr>
<tr><td>Nr. Cl2 Tonner filling Area</td><td>62.5</td><td>70.9</td><td>66.7</td><td>59.3</td><td>68.1</td><td>63.7</td></tr>
<tr><td>Nr. Cl2 compressor area</td><td>66.2</td><td>73.5</td><td>69.85</td><td>62.6</td><td>68.6</td><td>65.6</td></tr>
<tr><td>Nr VAM Chiller area</td><td>63.9</td><td>71.9</td><td>67.9</td><td>61.1</td><td>69.6</td><td>65.35</td></tr>
<tr><td>Nr Utility compressor area</td><td>66.2</td><td>71.4</td><td>68.8</td><td>64.1</td><td>68.3</td><td>66.2</td></tr>
<tr><td>Nr Compressor Area</td><td>66.2</td><td>72.5</td><td>69.35</td><td>63.1</td><td>70.1</td><td>66.6</td></tr>
<tr><td>Nr HSBP Dryer</td><td>67.1</td><td>74.6</td><td>70.85</td><td>64.6</td><td>70</td><td>67.3</td></tr>
</table>
</td></tr>
<tr><td>A.7</td><td>ENERGY CONSERVATION:</td><td></td></tr>
<tr><td>56</td><td>The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.</td><td>• Complied
• We have installed energy efficient devices and appliances as per the Bureau of Energy Efficiency norms.
• We have installed IE3 class energy efficient motors, Electrolyser elements are of 6th generation type which are most energy efficient elements. We have installed LED lights and all mechanical equipments are with latest technology and are of better efficiency.</td></tr>
<tr><td>57</td><td>The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented.</td><td>• Complied
• The energy audit is being conducted as per BEE guidelines.
• M&V audit conducted for PAT cycle-2.
• We are ISO 50001:2011 certified industry.
• Copy of certificate is attached as Annexure-10.</td></tr>
<tr><td>58</td><td>The project proponent shall implement the application of solar energy which shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating system.</td><td>• Complied
• Solar landscaping lights are installed for Admin Building and roof mounted solar panels are also installed.</td></tr>
<tr><td>59</td><td>The transformers and motors shall have minimum efficiency of 85%.</td><td>• Noted & Complied
• All transformers are of higher efficiency > 98 %</td></tr>
<tr><td>60</td><td>Variable frequency drives shall be installed.</td><td>• Complied
• 40 nos. of Variable frequency drivers are installed for energy saving.</td></tr>
<tr><td>61</td><td>Energy conservation measures shall include use of electronic lighting system, use of CFL tubes to minimize energy use, use of programmable timers for pumping system and lighting, water level controllers for water pumps, centralized cooling etc.</td><td>• Complied
• We have only LED light fixtures across the site.</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
62	Energy saving practices as follows shall be practiced.	
	Constant monitoring of energy consumption and defining targets for energy conservation.	• **Complied** • We have energy meters and energy monitoring system for measuring energy.
	Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level.	• **Complied** • Light fixtures have been installed as per lux level requirement in the different area.
	Use of solar cells for lighting.	• **Complied** • We have installed solar cells on admin building terrace.
	Use of solar water heater for canteen & washing area.	• We are exploring for the possibilities.
	Proper load factor shall be maintained by the unit.	• We are maintaining the load factor.
	Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting.	• We have provided day light roof such as new work shop, PAC plant etc.
	Use of electronic ballast to save energy.	• We have installed LED lights.
	Automatic switching system for lighting & water tank pumping shall be used.	• Timers have been installed for switching on/ off plant lighting.
	To the maximum extent possible and technically feasible, energy efficient equipment like motors, pumps, air-conditioning systems shall be selected.	• We are practicing to use technically feasible, energy efficient equipment like motors, pumps, air-conditioning systems etc.
	Gravity flow shall be preferred wherever possible to save pumping energy.	• We have designed our plant accordingly.
	Promoting awareness on energy conservation.	• We are conducting training and awareness programs to promote energy conservation.
	Training to the staff on methods of energy conservation and to be vigilant for this.	• We are practicing special suggestion scheme for energy conservation/ energy saving and trainings are also conducted at regular intervals.
A.7	**CLEANER PRODUCTION AND WASTE MINIMIZATION:**	
63	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 carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
64	The company shall undertake following waste minimization measures:	
(i)	Metering and control of quantities of active ingredients to minimize waste.	• **Complied** • We have provided flow meters for wastewater generation. • We have installed RO system for reducing the effluent. • Recycle steam and vapor condensate is used in process & cooling tower. • We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
(ii)	Reuse of by-products from the process as raw materials substitutes in other process.	• **Complied** • We are using Hydrogen as a clean fuel for producing Caustic Soda flakes & Poly Aluminum Chloride. • Use of waste chlorine gas for producing 32% HCl. • Vapor condensate from flaking plant treated by polishing unit and finally used as DM water. • By-product HCl from CPW Plant is used in PAC plant as raw material.
(iii)	Use of automated and enclosed filling to minimize spillages.	• **Complied** • We are using automated and closed filling to minimize spillages.

Sr. No.	EC Conditions	Compliance Status
(iv)	Use of close feed system into batch reactors.	• **Complied** • We are using close feed system into batch reactors.
(v)	Dry cleaning / mopping of floor instead of floor washing.	• **Complied** • Floors are cleaned through mopping.
(vi)	Use of high pressure hoses for cleaning to reduce wastewater generation.	• **Complied** • High pressure hoses are used for cleaning and reduce the wastewater.
A.8	**GREEN BELT AND OTHER PLANTATION:**	
64	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 the GIDC estate, nearby schools, gram panchayat areas and any other open areas in consultation with the GIDC/ local bodies/ GPCB and submit an action plan of plantation for next three years to the GPCB.	• **Complied** • We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
65	Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development.	• **Complied** • Drip irrigation/ low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m^2 area is covered under drip irrigation & low angle sprinkler system.
	Please Refer STP Network 	
B	**OTHER CONDITIONS:**	
66	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.	• **Complied** • All pollution control systems installed in our plant are directly connected with process safety inter locks from DCS. • For ensure, all the safe requirements meet before any start up. • We are also following pre-start up safety review before restart of the system.
67	All the recommendations / commitments made in the EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad and submitted vide letter no. NIL dated 29/06/2016 shall be implemented in letter and spirit.	• **Complied** • Recommendations made in the EIA/ EMP were submitted & implemented.
68	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and	• **Complied** • We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>any statutory authority.</td><td>and any statutory authority.
• CCA Compliance Report is attached as Annexure-8.</td></tr>
<tr><td>69</td><td>During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.</td><td>• Complied
• For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas.</td></tr>
<tr><td>70</td><td>Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.</td><td>• Complied
• We have provided RCC and / acid brick line flooring in the required areas.
• Photograph of RCC flooring:
  </td></tr>
<tr><td>71</td><td>Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.</td><td>• Complied
• We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.</td></tr>
<tr><td>72</td><td>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.</td><td>• Complied
• All future expansion or modifications in the plant will be carried out after obtaining prior Environment Clearance from the concerned authority.</td></tr>
<tr><td>73</td><td>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, 1981, the Environment (Protection) Act, 1986, the Hazardous and other wastes (Management and Transboundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</td><td>• Complied
• We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</td></tr>
<tr><td>74</td><td>The company shall undertake socio-economic developmental/ community welfare activities as per the CSR Rules 2014.</td><td>• Complied
• Socio-economic developmental / community welfare activities are being carried out as per CSR Rules 2014.
• CSR activities is summarized as per below table and the same is attached as Annexure-9</td></tr>
<tr><td>75</td><td>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.</td><td>• Complied
• Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
• A year wise expenditure on environmental safeguards is also reported.
<table>
<tr><th colspan="3">Fund Utilized for Environment Management</th></tr>
<tr><th>Sr. No.</th><th>Particulars</th><th>Value (in Cr)</th></tr>
<tr><td>1</td><td>CTE / CCA Application</td><td>0.15</td></tr>
<tr><td>2</td><td>GPCB sampling & analysis charges</td><td>0.05</td></tr>
<tr><td>3</td><td>Schedule-I Environment Audit</td><td>0.5</td></tr>
<tr><td>4</td><td>Monthly Monitoring by Third</td><td>0.5</td></tr>
</table></td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
		party
		5 Waste Management 12
		6 Green Belt Development 0.5
76	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 GPCB and may also be seen at the website of SEIAA/ 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 Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	• **Complied** • We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. Name of Paper: Times of India Date of Issue: 06.11.2016 In: English language Name of Paper: Gujarati Samachar Date of Issue: 07.11.2016 In: Gujarati language
	 જાહેર નિવેદન આ સાથે જાહેર જનતાને વિદીત કરવામાં આવે છે કે "સ્ટેટ લેવલ એન્વાયરોન્મેન્ટલ ઇમ્પેક્ટ ઓથોરીટી" પર્યાવરણ ભવન, સેક્ટર ૧૦A, ગાંધીનગર-૩૮૨ ૦૧૦ દ્વારા તેઓના પત્રક્રમાંક SEIAA/GUJ/EC/8(a)/642/2016 તારીખ: ૨૯/૧૦/૨૦૧૬ ના રોજ મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીઝ લિમીટેડ (કેમીકલ ડિવીઝન) ના પ્લોટ નં.૧, જી.આઈ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાતમાં પ્રસ્તાવિત સિન્થેટીક ઓર્ગેનિક કેમિકલ્સના અને કોસ્ટીક સોડા લાઇ ઉત્પાદનના વિસ્તૃતિકરણ માટેની યોજનાને S.O. 1533, EIA નોટીફીકેશન ૨૦૦૬ જાહેરનામા મુજબ એન્વાયરોમેન્ટલ ક્લીઅરન્સ માટે અનુમતિ આપવામાં આવેલ છે. ઉપરોક્ત અનુમતિની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે અને સદર અનુમતિને SEIAA/SEAC/ GPCB ની વેબસાઇટ પર પણ મુકવામાં આવેલ છે. સહી/- મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીઝ લિમિટેડ પ્લોટ નંબર-૧, જી.આઈ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાત	 PUBLIC NOTICE This is to inform public at large that the State Level Environment Impact Assessment Authority, Paryavaran Bhavan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/GUJ/EC/8(a)/642/2016, Dated 29/10/2016 has accorded Environmental Clearance to M/s. Grasim Industries Ltd. (Chemical Division) for the proposed expansion of Synthetic Organic Chemical and Caustic Soda Lye plant at Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat as per applicable provisions of the S.O 1533, EIA Notification 2006. Copies of the clearance letters are available with the Gujarat Pollution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB. Sd/- M/s. Grasim Industries Ltd., Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat.
77	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 of the environmental protection and management.	• **Noted & Complied** • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
78	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 hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	• **Noted & Complied** • We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
79	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	• **Noted** • The data submitting herewith are factual and are not false / fabricated.
80	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• **Noted & Complied** • We are complying all the conditions stipulated by the Gujarat Pollution Control Board.
81	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	• **Noted** • We have been complying the conditions issued by the SEIAA. • No suspension order issued by the SEIAA till date.
82	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional	• **Noted** • We are implementing conditions stipulated by the board in a time bound manner.

Sr. No.	EC Conditions	Compliance Status
	conditions, if the same is found necessary.	
83	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 & Complied** • The date of financial closure and final approval of the project by the concerned authorities and the date of starting the project are: • Date of financial closure: 31st March 2018 • Date of final approval of the project by the concerned authorities: 3rd April 2017
84	This environmental clearance is valid for seven years from the date of issue.	• **Noted** • The EC has already being converted into CCA.
85	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.	• **Complied** • There is no appeal against this environmental clearance lie with the National Green Tribunal.

Compliance status of Environmental Clearance vide Letter No.: SEIAA/GUJ/EC/1(d)/287/2019 dated 4th Feb 2019

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>The proposal is for Environmental Clearance to M/s. Grasim Industries Ltd., for expansion of Captive Power Plant within the existing premises located at Plot No. -1, GIDC Industrial Estate, P.O.-Vilayat, Ta. Vagra, Dist.: Bharuch. It is an existing unit for manufacturing following, which falls in the category -1(d) of the schedule of the EIA Noitification-2006.
<table>
<tr><th rowspan="2">Sr. No</th><th rowspan="2">Name of Product/ Activity</th><th colspan="3">Quantity (MT/Month)</th><th rowspan="2">End-use of product</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Captive Power Plant (CPP)</td><td>96 MW</td><td>45 MW</td><td>141 MW</td><td>Power Generation for Captive use</td></tr>
</table></td><td>• Noted
• Copy of Environment Clearance is attached as Annexure-1.
• We have obtained EC to CTE and CCA.
• Actual Power generation for Apr 25 to Sept 25.
<table>
<tr><th>Month</th><th>Power Generation MW</th></tr>
<tr><td>Apr-25</td><td>104</td></tr>
<tr><td>May-25</td><td>99</td></tr>
<tr><td>Jun-25</td><td>94</td></tr>
<tr><td>Jul-25</td><td>87</td></tr>
<tr><td>Aug-25</td><td>101</td></tr>
<tr><td>Sep-25</td><td>85</td></tr>
</table></td></tr>
<tr><td>A.</td><td colspan="2">CONDITIONS :</td></tr>
<tr><td>A.1</td><td>SPECIFIC CONDITION :</td><td></td></tr>
<tr><td>2</td><td>Unit shall comply the emission standards mentioned in the Notification by MoEF&CC vide no. S.O. 3305 (E) dated 07.12.2015 and amended time to time.</td><td>• Complied
• We are conducting Monthly Analysis of boiler emissions and the Report from Aqua Air as shown below:</td></tr>
<tr><td></td><td colspan="2">
<table>
<tr><th rowspan="2">Month/ Parameters</th><th colspan="3">Power Plant Stack 1</th><th colspan="3">Power Plant Stack 2</th></tr>
<tr><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th></tr>
<tr><td>Apr-25</td><td>25.4</td><td>382.4</td><td>269.4</td><td>21.8</td><td>58.4</td><td>82.4</td></tr>
<tr><td>May-25</td><td>22.6</td><td>348.8</td><td>288.7</td><td>19.6</td><td>62.6</td><td>76.4</td></tr>
<tr><td>Jun-25</td><td>24.1</td><td>382.6</td><td>308.2</td><td>20.4</td><td>58.2</td><td>71.2</td></tr>
<tr><td>Jul-25</td><td>22.6</td><td>340.8</td><td>296.2</td><td>18.6</td><td>60.2</td><td>76.4</td></tr>
<tr><td>Aug-25</td><td>18.4</td><td>366.0</td><td>308.2</td><td>17.6</td><td>70.8</td><td>82.6</td></tr>
<tr><td>Sep-25</td><td>20.1</td><td>381.0</td><td>341.0</td><td>18.2</td><td>62.6</td><td>77.6</td></tr>
<tr><td>Min</td><td>18.4</td><td>340.8</td><td>269.4</td><td>17.6</td><td>58.2</td><td>71.2</td></tr>
<tr><td>Max</td><td>25.4</td><td>382.6</td><td>341.0</td><td>21.8</td><td>70.8</td><td>82.6</td></tr>
<tr><td>Avg.</td><td>22</td><td>367</td><td>302</td><td>19</td><td>62</td><td>78</td></tr>
</table>
</td></tr>
<tr><td>3</td><td>Unit shall comply all the conditions stipulated in Coal</td><td>• Complied</td></tr>
</table>

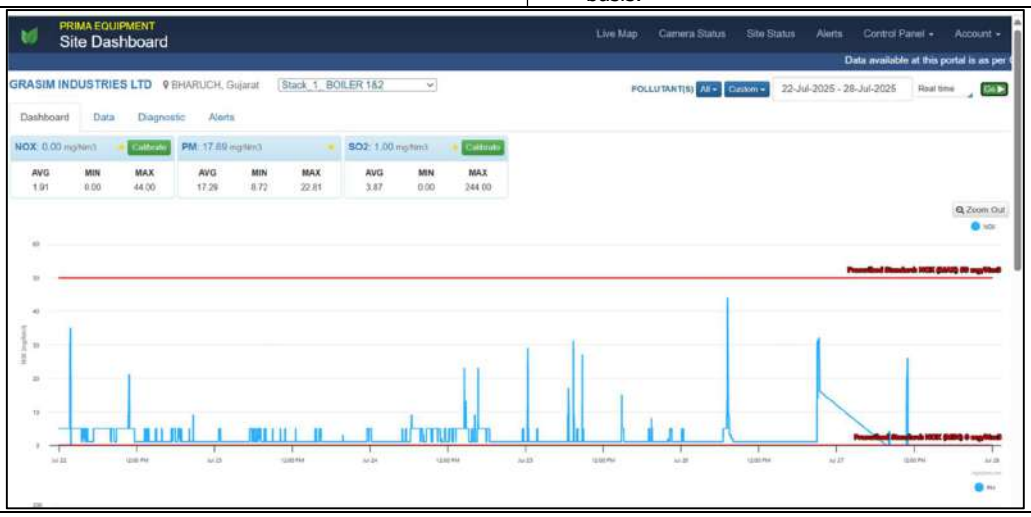
<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>Handling Guidelines published by GPCB.</td><td>• We are complying all the conditions mentioned in Coal Handling Guideline published by GPCB.</td></tr>
<tr><td>4</td><td>The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/ or any other statutory authority.</td><td>• Noted</td></tr>
<tr><td>5</td><td>The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.</td><td>• Complied
• At our site we are complying the National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009.
• At our site we are conducting monthly Ambient Air Quality Monitoring through NABL & MoEFCC Approved Laboratory.</td></tr>
<tr><td>6</td><td>Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time for CPP.</td><td>• Complied
• There was no Wastewater discharge outside the plant premises.
• We are maintaining complete Zero Liquid Discharge (ZLD) all the time.</td></tr>
<tr><td>7</td><td>All measures shall be taken to prevent soil and ground water contamination.</td><td>• Complied
• Measures have been taken to prevent soil & ground water contamination.</td></tr>
<tr><td>8</td><td>There shall be no drainage connection to discharge waste water from the premises.</td><td>• Complied
• There was no Wastewater discharge outside the plant premises.
• We are maintaining complete Zero Liquid Discharge (ZLD) all the time.</td></tr>
<tr><td>A.2</td><td>WATER:</td><td></td></tr>
<tr><td>9</td><td>The fresh water requirement for the proposed expansion shall not exceed 14883 KL/day. Unit shall reuse 11689 KLD [5870 KLD steam condensate from boiler for Boiler make-up, 4518 KLD permeate from RO plant for cooling tower make-up, washing and DM plant, 1301 KLD reject from RO plant for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning (45 KLD)] within premises. Hence, fresh water requirement shall not exceed 4495 KLD and it shall be met through GIDC water supply system. Permission from the Concern authority for additional water requirement shall be obtained.</td><td>• Complied
• The Fresh water requirement for the CPP plant not exceeded from 14883 KLD.
• Actual Water consumption quantity shown as below:
<table>
<tr><th>Month</th><th>Water Consumption (KL/M)</th></tr>
<tr><td>Apr-25</td><td>176400</td></tr>
<tr><td>May-25</td><td>176520</td></tr>
<tr><td>Jun-25</td><td>176430</td></tr>
<tr><td>Jul-25</td><td>182280</td></tr>
<tr><td>Aug-25</td><td>182280</td></tr>
<tr><td>Sep-25</td><td>176400</td></tr>
<tr><td>Total</td><td>1070310</td></tr>
</table></td></tr>
<tr><td>10</td><td>Metering of water shall be done and its records shall be maintained. No ground water shall be trapped in any case for meeting the project requirements.</td><td>• Complied
• Metering facility has been installed and its record has been maintained.
• No groundwater is being trapped.
• Our source of water is GIDC Water supply only.</td></tr>
<tr><td>11</td><td>Unit shall reuse 5870 KLD of Boiler condensate for Boiler feed water.</td><td>• Complied
• We are reusing Boiler Condensate for Boiler feed water.</td></tr>
<tr><td>12</td><td>The industrial effluent generation after proposed expansion in power plant shall not exceed 6505 KL/day.</td><td>• Complied
• The industrial effluent generation has not been exceeded from 6505 KLD.</td></tr>
<tr><td>13</td><td>Entire quantity of waste water shall be subjected to Primary ETP (Cap. 500 KLD X 2) followed by RO plant.</td><td>• Complied
• Entire quantity of wastewater is being treated to ETP followed by RO plant only.</td></tr>
<tr><td>14</td><td>RO permeate (5204 KLD) shall be reused for cooling tower make-up (4000 KLD), washing (75 KLD), DM plant (443 KLD) and gardening plantation (686 KLD)</td><td>• Complied</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	within premises.	• RO Permeate reused in cooling tower makeup, for Washing, in DM Plant and for gardening within plant premises only.
15	RO reject (1301 KLD) shall be reused for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning (45 KLD) within premises.	• **Complied** • RO Reject reused for dust suppression to coal handling area, Sprinkling on Fly Ash and Road Cleaning within plant premises.
16	Complete Zero Liquid Discharge (ZLD) shall be maintained and there shall be no discharge of industrial effluent in any case.	• **Complied** • There was no Wastewater discharge outside the plant premises. • We are maintaining complete Zero Liquid Discharge (ZLD) all the time.
17	Domestic wastewater generation shall not exceed 6.4 KL/day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.	• **Complied** • Domestic Wastewater generation is not being exceeded from 6.4 KLD and the same is being treated in STP only. • Treated sewage utilized for gardening and plantation purpose within plant premises.
18	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.	• **Noted & Complied**
19	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	• **Noted & Complied**
20	The unit shall provide metering facility at the inlets and outlets of the collection cum reuse system of waste water and maintain records of the same.	• **Complied** • Metering facility has been provided at the inlets & outlets of the collection cum reuse system of wastewater and maintaining record of the same.
21	The unit shall provide adequate effluent treatment plant (ETP) with RO system for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve Zero Liquid Discharge (ZLD) for CPP by reusing entire waste water within premises.	• **Complied** • We have provided 40 MLD capacity of Effluent treatment Plant (ETP) with RO system for treatment of industrial effluent and it is being operated regularly and efficiently to achieve Zero Liquid Discharge (ZLD).
22	The unit shall provide metering facility at the inlet and outlet of the ETP & RO system and maintain records for the same.	• **Complied** • Metering facility has been provided at the inlets & outlets of the ETP & RO system of and maintaining record of the same.
23	Proper logbooks of ETP, chemical consumption, quantities and qualities of effluent reuse, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	• **Complied** • Proper logbook of ETP, Chemical consumption, quantities and qualities of effluent reuse, power consumption etc.
A.3	**AIR:**	

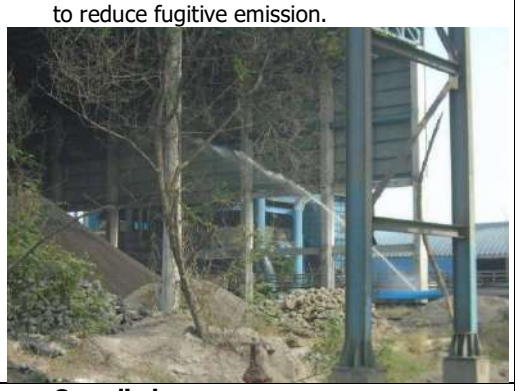
<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>24</td><td>Unit shall not exceed fuel consumption for steam boiler and stand-by DG set as mentioned below:
<table>
<tr><th>Sr. No.</th><th>Source of emission with capacity</th><th>Stack Height (mtr)</th><th>Name of the fuel</th><th>Quality of fuel MT/hr & MT/d</th><th>Type of emissions i.e. Air Pollutant</th><th>Air pollution Control Measures (APCM)</th></tr>
<tr><td></td><td colspan="6">Existing</td></tr>
<tr><td>1</td><td>Boiler 1 & 2 (2 x 175 TPH)</td><td>125</td><td rowspan="2">Coal</td><td rowspan="2">100 MT/ hr</td><td>SPM, SO2, NOX</td><td>ESP and Low NOx burners</td></tr>
<tr><td>2</td><td>Boiler 3 & 4 (2 x 175 TPH)</td><td>125</td><td>SPM, SO2, NOX</td><td>ESP and Low NOx burners</td></tr>
<tr><td></td><td colspan="6">Proposed</td></tr>
<tr><td>3</td><td>Boiler-5 (175 TPH)</td><td>125</td><td>Coal</td><td>29.16 MT/hr</td><td>SPM, SO2, NOX</td><td>ESP and Low NOx burners</td></tr>
</table></td><td>• Complied
• Fuel consumption has never been exceeded from permitted quantity.
• Actual Fuel consumption as shown in below table:
<table>
<tr><th>Month</th><th>Coal (MT/ Month)</th></tr>
<tr><td>Apr-25</td><td>72274</td></tr>
<tr><td>May-25</td><td>76267</td></tr>
<tr><td>Jun-25</td><td>67054</td></tr>
<tr><td>Jul-25</td><td>63839</td></tr>
<tr><td>Aug-25</td><td>69051</td></tr>
<tr><td>Sep-25</td><td>59776</td></tr>
</table></td></tr>
<tr><td>25</td><td>Unit shall provide adequate APCM with flue gas generation sources as mentioned above.</td><td>• Complied
• Adequate APCM like Electrostatic Precipitator & Lime dosing system has been provided with Boilers.</td></tr>
<tr><td>26</td><td>There shall be no process gas emission from existing as well as from the proposed project.</td><td>• Noted & Complied</td></tr>
<tr><td>27</td><td>Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.</td><td>• Complied
• Proximate analysis has been carried out by third party and internal to check Sulfur & Ash content of the fuel before use.</td></tr>
<tr><td>28</td><td>A long term study of radio activity and heavy metals contents on coal/ lignite to be used shall be carried out through a reputed institute and results thereof analysed regularly and reported along with monitoring reports thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/ lignite and fly ash (including bottom ash) shall be put in place.</td><td>• Noted & Complied
• A long term study of radio activity and heavy metals contents on coal is being carried out through a reputed institute and results thereof analysed regularly and reported along with monitoring reports.</td></tr>
<tr><td>29</td><td>Height of flue gas stacks attached to Boilers shall be minimum 125 meters.</td><td>• Complied
• Height of flue gas stacks attached to Boilers is 125 meter only.</td></tr>
<tr><td>30</td><td>A flue gas stack of 125 m height shall be provided with online monitoring system to existing Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis.</td><td>• Complied
• Online monitoring system is being provided with all existing steam boilers and the mercury emission is also monitored on monthly basis through NABL approved laboratory.</td></tr>
<tr><td>31</td><td>High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard prescribed in the Environment {Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.</td><td>• Complied
• Electro Static Precipitators (ESP) with efficiency not less than 99.9% is being installed to control the flue gas emission.
• The ESP is being operated efficiently to ensure the PM emission not exceed the GPCB norms.
• We are carried out monitoring of Boiler emission on monthly basis through NABL approved laboratory and the report are as below:</td></tr>
<tr><td></td><td colspan="2">
<table>
<tr><th rowspan="2">Month/ Parameters</th><th colspan="3">Power Plant Stack 1</th><th colspan="3">Power Plant Stack 2</th></tr>
<tr><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th></tr>
</table></td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status

	Apr-25	25.4	382.4	269.4	21.8	58.4	82.4
	May-25	22.6	348.8	288.7	19.6	62.6	76.4
	Jun-25	24.1	382.6	308.2	20.4	58.2	71.2
	Jul-25	22.6	340.8	296.2	18.6	60.2	76.4
	Aug-25	18.4	366.0	308.2	17.6	70.8	82.6
	Sep-25	20.1	381.0	341.0	18.2	62.6	77.6
	Min	**18.4**	**340.8**	**269.4**	**17.6**	**58.2**	**71.2**
	Max	**25.4**	**382.6**	**341.0**	**21.8**	**70.8**	**82.6**
	Avg.	**22.2**	**366.9**	**302.0**	**19.4**	**62.1**	**77.8**

32	Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.	• **Complied** • Third party monitoring of the functioning of the ESP along with its efficiency is being carried out once in a year through a reputed organisation.
33	Lime stone injection technology shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.	• **Complied** • Lime stone injection system has been provided to control SO_2 emission.
34	The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.	• **Noted & Complied**
35	Online monitoring system shall be installed to monitor the SOx, NOx and SPM in the flue gas stack. An arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.	• **Complied** • Online monitoring system is being provided with all existing steam boilers to monitor the SO_x, NO_x & SPM emission in the flue gas stacks. • Also the online monitoring results has been reflected on the company's server and it is being assessable by the GPCB on real time basis.
		

Sr. No.	EC Conditions	Compliance Status
		
36	Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed.	• **Complied** • At our site we have provided adequate storage facility (Fly Ash Silos) for the fly ash. • We have not constructed any Ash pond at our site 
37	Handling of the fly ash shall be through a closed pneumatic system.	• **Noted & Complied**
38	Ash shall be handled only in dry state.	• **Noted & Complied**
39	The unit shall strictly comply with the Fly Ash Notification under the EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	• **Noted & Complied** • We are complying the Fly Ash Notification on strictly basis and ensuring that we are utilizing 100% of fly ash. • Current stock of Fly ash is Zero.
40	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 lime (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.	• **Noted & Complied**
(i)	All handling & transport of coal shall be exercised through covered coal conveyors only.	• **Noted & Complied** • All handling & transport of coal is being exercised through covered conveyors only.

Sr. No.	EC Conditions	Compliance Status
		
(ii)	Enclosure shall be provided at Coal loading and unloading operations.	• **Noted & Complied** 
(iii)	Water shall be sprinkled on Coal stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.	• **Complied** • Water has been sprinkled on frequent basis to reduce fugitive emission. 
(iv)	All transfer points shall be fully enclosed.	• **Complied**
(v)	Adequate dust suppression/ extraction system at crusher house as well as for the Coal/ Lignite stock yard and other vulnerable areas shall be provided to abate dust nuisance.	• **Noted & Complied**
(vi)	Accumulated coal dust/ fly ash on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.	• **Noted & Complied** 
(vii)	Internal roads shall be either concreted or asphalted	• **Noted & Complied**

Sr. No.	EC Conditions	Compliance Status
	or paved properly to reduce the fugitive emission during vehicular movement.	
(viii)	Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.	• **Noted & Complied** 
(ix)	Coal/ Lignite shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.	• **Noted & Complied**  
(x)	A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.	• **Noted & Complied** • A three layer greenbelt has been developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
41	Regular monitoring of ground level concentration of PM2.5, PM10, NOx, SO2 and Hg shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not	• **Complied** • Monthly Ambient monitoring has been carried out through NABL approved laboratory.

Sr. No.	EC Conditions	Compliance Status
	exceed the standards stipulated by the GPCB. If 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.	
A.4	**SOLID / HAZARDOUS WASTE:**	
42	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.	• **Noted & Complied** • At our site we are strictly complying the rules & 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. • CCA has been obtained from GPCB, Gandhinagar on 10/07/2024.
43	Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with imperious bottom and leachate collection facility, before its disposal.	• **Complied** • We have provided a designated storage facility with imperious bottom and leachate collection facility to store hazardous waste storage.
44	ETP waste & spent resin shall be disposed off to authorized TSDF site.	• **Noted & Complied**
45	Used oil shall be sold to only to the registered recyclers/rerefiners.	• **Noted & Complied**
46	Discarded containers / barrels / bags / liners shall be sold only to the authorized registered recycler.	• **Noted & Complied**
47	For storage of fly ash, closed silos of adequate capacity shall be provided. No ash pond shall be constructed in the project.	• **Complied** • At our site we have provided adequate storage facility (Fly Ash Silos) for the fly ash. • We have not constructed any Ash pond at our site 
48	Fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	• **Complied** • Fly Ash has been supplied to Cement manufacturing industries, Brick manufacturing industries and used for road reclamation projects. • At our site we are strictly complying with the Fly Ash Notification under EPA and ensuring that there is 100% utilization of fly ash to be generated from the unit. Current fly ash stock is Zero.
49	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	• **Noted**
50	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and	• **Complied**

Sr. No.	EC Conditions	Compliance Status
	Transboundary Movement) Rules 2016.	
A.5	**SAFETY:**	
51	The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals.	• **Complied** • We are following MSIHC Rules, 1989 and Factories Act, 1948. • All the chemicals/ materials are stored in the storage tanks with required material of Construction. • Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines. • Fire Hydrant system is provided nearby storage and handling area for emergency purpose. • Safety trainings are provided to all the operators and workers working in such areas. • Hazard Identification and Risk Assessment (JSA) of all activities carried out and SOPs are prepared accordingly. • Safety showers are provided nearby storage areas..
52	Necessary precautions like continuous monitoring of hot spots [ignited lignite] using temperature detection systems, water sprinklers, avoiding stacking of lignite near steam pipeline etc. shall be made for storing lignite to prevent fire hazard.	• **Noted & Complied**
53	All the risk mitigation measures, general & specific recommendations mentioned in Risk Assessment Report shall be implemented.	• **Complied** • As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly.
54	A well designed fire hydrant system shall be installed as per the prevailing standards.	• **Complied** • Fire hydrant system installed as per TAC (Tariff Advisory Committee) guidelines. • CA Plant Fire Water Reservoir Storage Capacity: 3000 KL Fire Tender Details: Water capacity: 5000 liter Foam capacity: 500 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Single Headed Hydrant: 100 Nos Fire Hose Reel: 22 Nos DCP Extinguisher: 100 kg (50 kg × 2 Nos.), CO2 Extinguishers: 22.5 kg × 4 Nos. • CMS plant Fire Foam Tender Details: Water capacity: 4000 liter Foam capacity: 2000 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Fire Water Reservoir Storage Capacity: 2950 KL Fire extinguisher total 95 nos. ABC: 68 nos. CO2: 17 nos. Foam type: 10 nos. Hydrant: 33 nos. Monitor: 5 nos. Hose reel: 10 nos. • Foam capacity: 7500 L

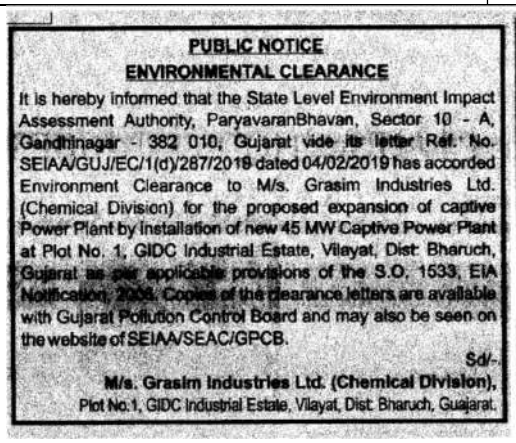
Sr. No.	EC Conditions	Compliance Status
55	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	• **Complied** • We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
56	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out.
57	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.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out.
58	Flameproof fillings shall be provided in the plant area.	• **Complied**
59	Adequate firefighting facilities shall be provided at the proposed power plant.	• **Complied**
60	Proper ventilation shall be provided in the work area.	• **Complied**
61	All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	• **Complied**
62	The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.	• **Complied**
A.6	**NOISE:**	
63	To minimize the noise pollution the following noise control measures shall be implemented:	
(i)	Selection of any new plant equipment shall be made with specification of low noise levels.	• **Complied** • We have procured and installed standardize equipment in our plant. We are regularly monitoring noise level of the plant area.
(ii)	Manufacturers/ suppliers of major noise generating machines/ equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national/ international regulatory norms with respect to noise generation for individual units.	• **Complied** • During our procurement, we are instructing our Manufacturers/ suppliers to make required design modifications in equipments like air compressors, feeder pumps, turbine generators, etc. to mitigate the noise generation and to comply with the national/ international regulatory norms. • We are regularly monitoring noise level of the plant area as per schedule.
(iii)	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.	• **Complied** • Regular maintenance of machinery and vehicles are undertaken to reduce the noise impact and also considered upgraded version equipment with reputed vendors to ensure minimal noise impact.
(iv)	Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.	• **Complied** • Noise suppression measures have been provided at D. G. Sets with acoustic enclosures, utility compressors in well-ventilated area with noise protection.
(v)	Employees shall be provided with ear protection measures like earplugs or earmuffs.	• **Complied** • Earplugs and earmuffs are provided to all the workers working in high noise area and we

Sr. No.	EC Conditions	Compliance Status
		have displayed caution notice 'High Noise Area - Use ear protection' in such locations.
(vi)	Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.	• **Complied** • Proper oiling, lubrication and preventive maintenance is carried out of the machineries and equipment to reduce noise generation. • We are following different maintenance practices such as Preventive Maintenance, Predictive Maintenance, Condition based Maintenance and also maintenance prevention with joint collaboration with vendors/ new technology at our site.
(vii)	Construction equipment generating minimum noise and vibration shall be chosen.	• **Complied** • We have procured and installed equipment like compressors of the companies such as Kirloskar, Ingersoll pneumatic etc. with silencers and Pumps such as Micro finish, Rajedia, Johnson, Tritech etc.
(viii)	Ear plugs and/ muffs shall be made compulsory for the construction workers working near the noise generating activities/ machines/ equipment.	• **Complied** • Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection' in such locations
(ix)	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate .	• **Complied** • Vehicles and construction equipment with internal combustion engines without proper silencer are not allowed to operate at our site.
(x)	Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.	• **Complied** • Construction equipment meeting the norms specified by EP Act 1986 are used.
(xi)	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.	• **Complied** • Noise control equipment such as Silencers are provided in Emergency D. G. sets which are used as power back up in case of emergency and any other potential areas are also considered with the same.
(xii)	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.	• **Complied** • We have provided silencers/ mufflers on such noise generator equipment to reduce the noise levels.
64	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules	• **Complied** • The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. • The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules.
A.7	**GREEN BELT AND OTHER PLANTATION:**	
65	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.	• **Complied** • We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
66	Drip irrigation/ low-volume, low-angle sprinkler	• **Complied**

Sr. No.	EC Conditions	Compliance Status
	system shall be used for the green belt development within the premises	• Drip irrigation / low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m^2 area is covered under drip irrigation & low angle sprinkler system.
B	**OTHER CONDITIONS:**	
67	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.II dated 09/08/2018.	• **Noted & Complied**
68	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.	• **Noted & Complied**
69	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.	• **Complied** • All pollution control systems installed in our plant area directly connected with process safety inter locks from DCS. For ensure, all the safe requirements meet before any start up. We are also following pre-start up safety review before restart of the system.
70	All the recommendations mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd. Ahmedabad and commitments made during presentation before SEAC, proposed in the EIA report shall be strictly adhered to in letter and spirit.	• **Complied** • As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly.
71	All the recommendations of CREP guidelines as may be applicable from time to time shall be followed vigorously.	• **Complied** • As per Charter Corporate Responsibility for Environment Protection (CREP) published by the CPCB, Tree plantation & Tree guard provided to protect Trees. • Energy Program: Low smoke wood stoves & Solar Street Light etc.
72	A separate environment management cell with qualified staff shall be set up for information of the stipulated environmental safeguards.	• **Complied** • A separate environment management cell equipped with full-fledged laboratory facilities and qualified personnel set up to carry out the Environment Management and Monitoring functions and a separate budget is allotted for this purpose.
73	The project authorities must strictly adhere to the stipulations made by the Gujarat pollution control board (GPCB) state Government and any statutory authority.	• **Complied** • We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority. • CCA Compliance Report is attached as **Annexure-8.**
74	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.	• **Noted** • All future expansion or modifications in the plant will be carried out with prior approval of the MOEF / SEIAA, as the case may be. • In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference will be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required.
75	The above conditions will be enforced, inter-alia	• **Complied**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>under the provisions of the Water (Prevention & Control of Pollution) Acl,1974, Air (Prevention & Control of Pollution) Act, 1981, 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.</td><td>• We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</td></tr>
<tr><td>76</td><td>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.</td><td>• Complied
• Socio-economic developmental / community welfare activities are being carried out as per CSR Rules 2014.
• CSR activities is summarized as per below table and the same is attached as Annexure-9</td></tr>
<tr><td>77</td><td>Unit shall comply provisions of MoEFCC's O.M. No.22-6512017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein.</td><td>• Noted & Complied</td></tr>
<tr><td>78</td><td>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.</td><td>• Complied
• The company will implement environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.</td></tr>
<tr><td>79</td><td>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.</td><td>• Complied
• Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
• A year wise expenditure on environmental safeguards is also reported.
<table>
<tr><th colspan="3">Fund Utilized for Environment Management</th></tr>
<tr><th>Sr. No.</th><th>Particulars</th><th>Value (in Cr)</th></tr>
<tr><td>1</td><td>CTE / CCA Application</td><td>0.15</td></tr>
<tr><td>2</td><td>GPCB sampling & analysis charges</td><td>0.05</td></tr>
<tr><td>3</td><td>Schedule-I Environment Audit</td><td>0.5</td></tr>
<tr><td>4</td><td>Monthly Monitoring by Third party</td><td>0.5</td></tr>
<tr><td>5</td><td>Waste Management</td><td>12</td></tr>
<tr><td>6</td><td>Green Belt Development</td><td>0.5</td></tr>
</table></td></tr>
<tr><td>80</td><td>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 SEIAA/ 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.</td><td>• Complied
• We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB.
Name of Paper: Times of India
Date of Issue: 09/02/2019
In: English language

Name of Paper: Divya Bhaskar
Date of Issue: 09/02/2019
In: Gujarati language</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	 	
81	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 of the environmental protection and management.	• **Noted & Complied** • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
82	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 hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	• **Noted & Complied** • We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
83	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	• **Noted** • The data submitting herewith are factual and are not false / fabricated.
84	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• **Noted & Complied** • We are complying all the conditions stipulated by the Gujarat Pollution Control Board.
85	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	• **Noted** • We have been complying the conditions issued by the SEIAA. • No suspension order issued by the SEIAA till date.
86	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**
87	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 & Complied**
88	This environmental clearance is valid for seven years from the date of issue.	• **Noted** • The EC has already converted into CCA.
89	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.	• **Complied** • There is no appeal against this environmental clearance lie with the National Green Tribunal.

Sr. No.	EC Conditions	Compliance Status
90	Submission of any false or misleading information or data which is material to screening or seeping or appraisal or decision on the application makes this environment clearance cancelled.	• **Noted** • The data submitting which is material to screening or scoping or appraisal or decision on the application are factual and are not false.

Compliance status of Environmental Clearance vide Letter No.: SEIAA/GUJ/EC/1(d)&4(d)/764/2021 dated 10th Jun 2021

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>The proposal is for environmental clearance to M/s. Grasim Chemicals Ltd. For expansion of setting up of Chlor Alkali Plant and Captive Power plant (CPP) at Plot No.-1, GIDC Industrial Estate, Vill: Vilayat Tal: Vagra & Dist: Bharuch, Gujarat. It is proposed in existing unit for manufacturing following products, which falls in the category - 1(d) & 4(d) of the schedule of the EIA Notification-2006.
<table>
<tr><th rowspan="2">Sr. no.</th><th rowspan="2">Name of Product</th><th rowspan="2">CAS no./ CI no.</th><th colspan="4">Quantity (MT/Month)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th><th>End-use of product</th></tr>
<tr><td>1</td><td>Caustic Soda Lye</td><td>1310-73-2</td><td>30416.67</td><td>12166.67</td><td>42583.33</td><td>Manufacture of pulp and paper, alumina, soap and detergents, petroleum products and chemical production. Other application include water treatment, food, textile, metal processing, minning, glass making and others.</td></tr>
<tr><td>2</td><td>Hydrogen</td><td>1333-74-0</td><td>8516666.67 (Nm^3)</td><td>3406666.67 (Nm^3)</td><td>11923333.33 (Nm^3)</td><td>Industrial application such as refining, treating metals and food processing. It is also used as alternate fuel in industries.</td></tr>
<tr><td>3</td><td>Liquid Chlorine/ Sodium Hypochlorite/ Hydrochloric Acid</td><td>7782-50-5</td><td>27375</td><td>20865.83</td><td>48240.83</td><td>It is disinfectant. It is used to treat drinking water and swimming pool water. It is also used to make hundreds of consumer products from paper to paints, and from textiles to insecticides. About 20% of chlorine</td></tr>
</table></td><td>• Noted.
• EC copy is attached as Annexure 1.
• Captive power plant yet under construction phase</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status

						produced is used to make PVC. It can be used Vinyls, Chloromethanes, CPW, Organics Chemicals
4	Aluminium Chloride	7746-70-0	2083.33	416.67	2500	It finds application in the chemical industry as a catalyst for Friedel Crafts reactions, both acylations and alkylations. It can be used in Agrochemicals, Pigments and Dyes, Pharma, Coating Industries.
5	Sodium Sulphate	7757-82-6	0	222.67	222.67	Sodium sulfate us used to dry organic liquids. As a filter in powered home laundry detergents.
6	Captive Power plant	---	141 MW	35 MW	176 MW	Power Generation

The project activity is covered in 1(d) & 4(d) and is of 'B' category. Since the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(ii) of the Environment Assessment notification-2006.

The SEAC, Gujarat vide their letter dated 03/05/2021 has recommended to the SEIAA, Gujarat to grant the Environment Clearance for the above-mentioned project based on its meeting held on 01/03/2021. The proposal was considered by SEIAA, Gujarat in its meeting held on 03/05/2021 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

Sr. no.	Name of Product	Production qty. (MT/M)					
		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	Caustic Soda Lye	31915	31621	30375	29164	30132	23578
2	Hydrogen	2157488	2410187	2313053	2251490	2105030	1933260
3	Liquid Chlorine/ Sodium Hypochlorite/ Hydrochloric Acid	29553	29322	28303	27203	27914	21849
4	Aluminium Chloride	1590	1643	1622	1780	1776	1650
5	Sodium Sulphate	69	49	60	63	0	0
6	Captive Power plant	104	99	94	87	101	85

A CONDITIONS :

A.1 SPECIFIC CONDITION :

Sr. No.	EC Conditions	Compliance Status
2	All the issues raised in the earlier public hearing dated 21.08.2018 shall be comprehensively addressed/ complied with in a time bound manner.	• **Complied** • All the issues raised in the earlier public hearing dated 21.08.2018 are comprehensively addressed/ complied with in a time bound manner.
3	Total Sulphur content of fuel use in CPP shall not exceed 0.8% at any point of time.	• **Complied** • Proximate analysis has been carried out by third party and internal to check Sulfur & Ash content of the fuel before use.
4	Transportation route for vehicles carrying Fly Ash and Coal shall have least minimum pass near human habitation.	• **Complied**
5	Unit shall comply Coal handling Guidelines published by GPCB.	• **Complied** • We are complying all the conditions mentioned in Coal Handling Guideline published by GPCB.
6	Project proponent (PP) shall maintain Complete Zero Liquid Discharge [ZLD] status all the time and there shall be no drainage connection from the premises and wastewater discharge outside premises by any means for CPP all the time.	• **Complied** • There was no Wastewater discharge outside the plant premises. • We are maintaining complete Zero Liquid Discharge (ZLD) all the time.
7	Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no. B-9016/04/06PCI-1/5401 dated 05/02/2014 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].	• **Complied** • Unit has already installed CEMS in line to CPCB directions to all SPCB vide letter no. B-9016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/ emission from respective project and an arrangement is also done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/ CPCB on real time basis.
8	PP shall pursue health check-ups of the workers on regular basis and shall provide adequate personal protective equipments.	• **Complied** • We are carrying out check-ups of the workers on regular basis and providing adequate personal protective.
9	Unit shall comply the emission standards mentioned in the notification by MoEF&CC vide no. S.O. 3305 (E) dated 07/12/2015 and amended time to time.	• **Complied** • We are conducting Monthly Analysis of boiler emissions and the Report from Aqua Air as shown below:

Month/ Parameters	Power Plant Stack 1			Power Plant Stack 2		
	SPM (mg/Nm3)	SO2 (mg/Nm3)	NOx (mg/Nm3)	SPM (mg/Nm3)	SO2 (mg/Nm3)	NOx (mg/Nm3)
Apr-25	25.4	382.4	269.4	21.8	58.4	82.4
May-25	22.6	348.8	288.7	19.6	62.6	76.4
Jun-25	24.1	382.6	308.2	20.4	58.2	71.2
Jul-25	22.6	340.8	296.2	18.6	60.2	76.4
Aug-25	18.4	366.0	308.2	17.6	70.8	82.6
Sep-25	20.1	381.0	341.0	18.2	62.6	77.6
Min	**18.4**	**340.8**	**269.4**	**17.6**	**58.2**	**71.2**
Max	**25.4**	**382.6**	**341.0**	**21.8**	**70.8**	**82.6**
Avg.	**22.2**	**366.9**	**302.0**	**19.4**	**62.1**	**77.8**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>10</td><td>Transportation route for vehicles carrying Fly Ash and Coal shall have least minimum pass near human habitation.</td><td>• Complied</td></tr>
<tr><td>11</td><td>Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.</td><td>• Complied
• Proximate analysis has been carried out by third party and internal to check Sulfur & Ash content of the fuel before use.</td></tr>
<tr><td>12</td><td>A long term study or radio activity and heavy metals contents on coal/ lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/ lignite and fly ash (Including bottom ash) shall be put in place.</td><td>• It is being Complied</td></tr>
<tr><td>13</td><td>A flue gas stack of 125 m height shall be provided with online monitoring system to proposed Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis.</td><td>• Complied
• Online monitoring system is being provided with all existing steam boilers and the mercury emission is also monitored on monthly basis through NABL approved laboratory.</td></tr>
<tr><td>14</td><td>High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standards prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.</td><td>• Complied
• Electro Static Precipitators (ESP) with efficiency not less than 99.9% is being installed to control the flue gas emission.
• The ESP is being operated efficiently to ensure the PM emission not exceed the GPCB norms.
• We are carried out monitoring of Boiler emission on monthly basis through NABL approved laboratory and the report are as below:</td></tr>
<tr><td></td><td colspan="2">
<table>
<tr><th rowspan="2">Month/ Parameters</th><th colspan="3">Power Plant Stack 1</th><th colspan="3">Power Plant Stack 2</th></tr>
<tr><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th><th>SPM (mg/Nm3)</th><th>SO2 (mg/Nm3)</th><th>NOx (mg/Nm3)</th></tr>
<tr><td>Apr-25</td><td>25.4</td><td>382.4</td><td>269.4</td><td>21.8</td><td>58.4</td><td>82.4</td></tr>
<tr><td>May-25</td><td>22.6</td><td>348.8</td><td>288.7</td><td>19.6</td><td>62.6</td><td>76.4</td></tr>
<tr><td>Jun-25</td><td>24.1</td><td>382.6</td><td>308.2</td><td>20.4</td><td>58.2</td><td>71.2</td></tr>
<tr><td>Jul-25</td><td>22.6</td><td>340.8</td><td>296.2</td><td>18.6</td><td>60.2</td><td>76.4</td></tr>
<tr><td>Aug-25</td><td>18.4</td><td>366.0</td><td>308.2</td><td>17.6</td><td>70.8</td><td>82.6</td></tr>
<tr><td>Sep-25</td><td>20.1</td><td>381.0</td><td>341.0</td><td>18.2</td><td>62.6</td><td>77.6</td></tr>
<tr><td>Min</td><td>18.4</td><td>340.8</td><td>269.4</td><td>17.6</td><td>58.2</td><td>71.2</td></tr>
<tr><td>Max</td><td>25.4</td><td>382.6</td><td>341.0</td><td>21.8</td><td>70.8</td><td>82.6</td></tr>
<tr><td>Avg.</td><td>22.2</td><td>366.9</td><td>302.0</td><td>19.4</td><td>62.1</td><td>77.8</td></tr>
</table>
</td></tr>
<tr><td>15</td><td>Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute/ organization.</td><td>• Complied
• Third party monitoring of the functioning of the ESP along with its efficiency is being carried out once in a year through a reputed organisation.</td></tr>
<tr><td>16</td><td>Lime stone injection technology shall be adopted to control SO_2 and it shall be ensured that SO_2 levels in the ambient air do not exceed the prescribed standards.</td><td>• Complied
• Lime stone injection system has been provided to control SO_2 emission.</td></tr>
<tr><td>17</td><td>The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.</td><td>• Noted & Complied</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>18</td><td>The PP shall develop green belt within premises and nearby villages (154057.21 Sq. m i.e. 33% of the total plot area) as committed 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>• Complied
• Already 30,000 No. of trees have been planted within the premises and in nearby villages.</td></tr>
<tr><td>A.2</td><td colspan="2">Safety & Health</td></tr>
<tr><td>19</td><td>PP shall provide Occupational Health Center (OHC) as per the under the Gujarat Factories Rule 68-I.</td><td>• Complied
• OHC with availability of para-medical staff & ambulance is available round the clock.
• We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch</td></tr>
<tr><td>20</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>• Not Applicable
• It is not applicable as per the circular</td></tr>
<tr><td>21</td><td>PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in manufacturing area in case of any emergency or accident.</td><td>• Complied
• Unit is carrying out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in manufacturing area in case of any emergency or accident</td></tr>
<tr><td>22</td><td>PP shall install adequate fire hydrant system within premises and separate storage of water for the same shall be ensured by PP.</td><td>• Complied
• We have already installed adequate fire hydrant system within premises and separate storage of water for existing scenario.</td></tr>
<tr><td>23</td><td>PP shall take all the necessary steps for human safety within premises to ensured that not any harm is caused to any worker/ employee or labour within premises.</td><td>• Complied
• We have taken all the necessary steps for human safety within premises to ensured that not any harm is caused to any worker/ employee or labour within premises.</td></tr>
<tr><td>24</td><td>Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.</td><td>• Complied
• Flame proof electrical fittings are provided in the required plant area.</td></tr>
<tr><td>A.3</td><td colspan="2">WATER :</td></tr>
<tr><td>25</td><td>Total water requirement for the project shall not exceed 24,768 KLD. Unit shall reuse 13,488 KLD of treated industrial effluent within premises, Hence. Fresh water requirement shall not exceed 11,280 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.</td><td>• Average water consumption for Apr 2025 to Sept 2025 is 11340 KLD, sourced from GIDC water supply for the Synthetic Organic Chemicals and Caustic Soda Lye plant.
<table>
<tr><th rowspan="2">Month</th><th>Water Consumption</th><th>Water Recycle / Reuse</th></tr>
<tr><th>KL/Month</th><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>365901</td><td>55404</td></tr>
<tr><td>May-25</td><td>353594</td><td>58699</td></tr>
<tr><td>Jun-25</td><td>342686</td><td>52322</td></tr>
<tr><td>Jul-25</td><td>340765</td><td>52439</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Aug-25</td><td>353885</td><td>46910</td></tr>
<tr><td>Sep-25</td><td>318122</td><td>37358</td></tr>
<tr><td>Min</td><td>318122</td><td>37358</td></tr>
<tr><td>Max</td><td>365901</td><td>58699</td></tr>
<tr><td>Avg</td><td>345825</td><td>50522</td></tr>
</table>

We are recycling/reuse ~1817 KL/Day of waste water within Synthetic Organic Chemicals and Caustic Soda Lye plants.
Following are the GIDC offer cum allotment letter details:

<table>
<tr><th>Sr. no.</th><th>Letter no.</th><th>Water supply</th><th>Effluent discharge</th></tr>
<tr><td>1</td><td>GIDC/PROJ/MKT/GRASIM/575 Dated 6th December 2006</td><td>15.60 MLD</td><td>12.48 MLD</td></tr>
<tr><td>2</td><td>GIDC/SE/CG/BRH/1236 Dated 29th December 2016</td><td>25 MLD</td><td>19.4 MLD</td></tr>
<tr><td>3</td><td>GIDC/ENG/CE/34 Dated 9th October 2017</td><td>55-56 MLD</td><td>--</td></tr>
<tr><td>4</td><td>GIDC/BRH/DEE (DRG)/659</td><td>--</td><td>23 MLD</td></tr>
</table>

Copy of agreement letter is attached as Annexure-4.

</td></tr>
<tr><td>26</td><td>The industrial effluent generation from the project shall not exceed 8,313 KLD.</td><td>

Complied

<table>
<tr><th rowspan="2">Month</th><th>Waste water generation</th></tr>
<tr><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>95483</td></tr>
<tr><td>May-25</td><td>99542</td></tr>
<tr><td>Jun-25</td><td>95106</td></tr>
<tr><td>Jul-25</td><td>96277</td></tr>
<tr><td>Aug-25</td><td>95998</td></tr>
<tr><td>Sep-25</td><td>83616</td></tr>
<tr><td>Min</td><td>83616</td></tr>
<tr><td>Max</td><td>99542</td></tr>
<tr><td>Average</td><td>94337</td></tr>
</table>
</td></tr>
<tr><td>27</td><td>8,313 KLD. Total industrial effluent shall be treated in ETP consists of primary, secondary & tertiary treatment units. Out of 8313 KLD, Treated effluent, 600 KLD shall be disposed into deep sea, 7713 KDL shall be treated in RO Plants.</td><td rowspan="3">

Noted
We are in process to commissioning ZLD within premises

</td></tr>
<tr><td>28</td><td>5566 KLD. RO reject shall be used within premises and 686 KLD, RO permeate shall be reused for gardening/ plantation.</td></tr>
<tr><td>29</td><td>1301 KLD, RO reject shall be used in coal yard, dust/ ash suppression and road cleaning and 140 KLD, RO reject shall be treated in MEE followed by ATFD. 112 KLD, MEE condensate shall be reused within premises.</td></tr>
<tr><td>30</td><td>Domestic wastewater generation shall not exceed 129.40 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.</td><td>

Complied
Domestic wastewater is being treated in STP and reused for gardening.

</td></tr>
<tr><td>31</td><td>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.</td><td>

Complied
During monsoon season, the treated sewage is stored in existing guard pond/ polishing pond.

</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>32</td><td>Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.</td><td>• Noted & Complied
• We are working on reusing of STP treated water in our cooling towers.</td></tr>
<tr><td>33</td><td>The unit shall provide metering facility at the inlet of ETP, MEE, STP and RO and maintain records for the same.</td><td>• Complied
• We have provided metering facility at inlet & outlet of the ETP and maintain the records of the same regularly.</td></tr>
<tr><td>34</td><td>Proper logbooks of ETP, MEE, STP and RO; 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.</td><td>• Complied
• Proper logbooks of ETP operations is maintained, also maintaining chemicals consumed, treated water reused, power consumed etc. and submitted in the Monthly Patrak on GPCB XGN.</td></tr>
<tr><td>A.4</td><td colspan="2">AIR:</td></tr>
<tr><td>35</td><td colspan="2">Unit shall not exceed fuel consumption for boilers, Flaker Plant and DG set as mentioned below:
<table>
<tr><th>Sr. no.</th><th>Stack/ Vent attached to</th><th>Type & Quantity of Fuel</th><th>Height of the Stack/ Vent (m)</th><th>Expected Emission</th><th>Air Pollution Control Measures</th></tr>
<tr><td colspan="6">EXISTING Flue Gas Emission</td></tr>
<tr><td>1</td><td>Boiler 1 & 2</td><td rowspan="2">Coal [100 MT/hr]</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>2</td><td>Boiler 3 & 4</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>3</td><td>Boiler-5 (175 TPH)</td><td>Coal [29.16 MT/hr]</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>4</td><td>D.G. Sets (1875 KVA x 2)</td><td>HSD [400 lit/hr. each]</td><td>36</td><td>PM
SO2
NO2</td><td rowspan="3">NA</td></tr>
<tr><td>5</td><td>D.G. Sets (750 KVA x 3)</td><td>HSD[200 lit/hr. each]</td><td>11</td><td>PM
SO2
NO2</td></tr>
<tr><td>6</td><td>D.G. Sets (1875 KVA x 2)</td><td>HSD[400 lit/hr. each]</td><td>31</td><td>PM
SO2
NO2</td></tr>
<tr><td colspan="6">PROPOSED Flue Gas Emission</td></tr>
<tr><td>1</td><td>Boiler-6 (250 TPH)</td><td>Coal [42 MT/hr]</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>2</td><td>D.G. Sets (1875 KVA x 1)</td><td>HSD (400 lit/hr. each]</td><td>36</td><td>PM
SO2
NO2</td><td>NA</td></tr>
<tr><td>3</td><td>Flaker Plant</td><td>Hydrogen [447.1 kg/hr.]</td><td>40</td><td>PM
SO2
NO2</td><td>NA</td></tr>
</table>
</td><td>• Complied
<table>
<tr><th rowspan="2">Month</th><th>Coal</th></tr>
<tr><th>MT/Month</th></tr>
<tr><td>Apr-25</td><td>72274</td></tr>
<tr><td>May-25</td><td>76267</td></tr>
<tr><td>Jun-25</td><td>67054</td></tr>
<tr><td>Jul-25</td><td>63839</td></tr>
<tr><td>Aug-25</td><td>69051</td></tr>
<tr><td>Sep-25</td><td>59776</td></tr>
</table>
</td></tr>
<tr><td>36</td><td>Unit shall provide adequate APCM with flue gas generation sources as mentioned above:</td><td>• Complied
• For existing flue gas stacks, APCM has been provided and will be complied for proposed stacks after commissioning.</td></tr>
<tr><td>37</td><td colspan="2">Unit shall provide adequate APCM with process gas generation sources as mentioned below:
<table>
<tr><td>EXISTING Process Gas Emission</td></tr>
</table>
• Complied</td></tr>
</table>

Sr. No.	EC Conditions					Compliance Status
	1	Sodium Hypo Stack 1 (Caustic Plant)	--	35	Cl_2	Alkali Scrubber	• We have provided adequate APCM to all process stacks. Online monitoring system is also provided and it is connected to CPCB & GPCB server.
	2	HCI stack 1 (Caustic Plant)	--	35	HCI	Water scrubber having bubble cap tray absorption system.	
	3	HCI stack 2 (Caustic Plant)	--	35			
	4	Poly Aluminium Chloride Plant		35	HCI Cl_2	Water scrubber system	
	5	Chlorinated Paraffin plant	--	35	HCI Cl_2	Alkali scrubbing system	
	6	Aluminium Chloride	--	35	HCI Cl_2	Alkali scrubbing system	
	7	Stable Bleaching Powder	--	35	HCI Cl_2	Alkali scrubbing system	
	8	Sodium Hypo stack 2 (Caustic Plant)	--	35	Cl_2	Alkali Scrubber	
	9	HCI stack 3 (Caustic Plant)	--	35	HCI	Water scrubber having bubble cap tray absorption system.	
	10	HCI stack 4 (Caustic Plant)	--	35			
	11	Poly Aluminium Chloride Liquid	--	35	HCI Cl_2	Water scrubber system	
	12	Poly Aluminium Chloride Powder	--	35		3 stage water scrubber system	
	13	Chlorinated Paraffin plant	--	35	HCI Cl_2	Alkali scrubbing system	
	14	Aluminium Chloride	--	35	HCI Cl_2	Alkali scrubbing system	
	15	Stable Bleaching Powder	--	35	HCI Cl_2	Alkali scrubbing system	
	Proposed						
	Not any						

Apr 25 to Sept 25					
Stack	Range	HCl mg/Nm3	Cl2 mg/Nm3	HF mg/Nm3	PM mg/Nm3
Sodium Hypo Stack 1	Min	-	2.50	-	-
	Max	-	3.00	-	-
	Avg	-	2.75	-	-
Sodium Hypo Stack 2	Min	-	1.10	-	-
	Max	-	1.60	-	-
	Avg	-	1.35	-	-
HCl Stack 1	Min	5.80	-	-	-
	Max	6.50	-	-	-
	Avg	6.15	-	-	-
HCl Stack 2	Min	4.70	-	-	-
	Max	6.90	-	-	-
	Avg	5.80	-	-	-
HCl Stack 3	Min	3.90	-	-	-
	Max	5.30	-	-	-
	Avg	4.60	-	-	-
HCl Stack 4	Min	4.00	-	-	-

Sr. No.	EC Conditions			Compliance Status		
		Max	4.50	-	-	-
		Avg	4.25	-	-	-
	PAC Liquid Plant	Min	1.40	4.30	-	-
		Max	1.80	5.60	-	-
		Avg	1.60	4.95	-	-
	PAC Powder Plant 1	Min	5.20	3.10	-	-
		Max	7.20	4.40	-	-
		Avg	6.20	3.75	-	-
	PAC Powder Plant 2	Min	6.80	3.50	-	-
		Max	7.60	4.30	-	-
		Avg	7.20	3.90	-	-
	Chlorinated Paraffin Plant	Min	2.50	3.20	-	-
		Max	3.40	4.70	-	-
		Avg	2.95	3.95	-	-
	Alluminium Chloride	Min	3.40	3.40	-	-
		Max	4.20	4.50	-	-
		Avg	3.80	3.95	-	-
	Stable Bleaching Powder Plant	Min	3.20	5.10	-	-
		Max	3.80	5.60	-	-
		Avg	3.50	5.35	-	-
	Vent attached to Dryer 1 (HSBP)	Min	-	-	-	6.10
		Max	-	-	-	11.40
		Avg	-	-	-	8.75
	Vent attached to Dryer 2 (HSBP)	Min	-	-	-	5.10
		Max	-	-	-	6.20
		Avg	-	-	-	5.65
	CMS Plant (Hydro chlorinator)	Min	6.40	-	-	7.30
		Max	7.30	-	-	7.30
		Avg	6.85	-	-	7.30
38	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to 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.					
39	Internal roads shall be either concreted or asphalted or reduce the fugitive emission during vehicular movement.			• **Complied** • We have constructed RCC roads in our site		
40	Air borne dust shall be controlled with water sprinklers locations in the plant.			• **Complied** • Water sprinklers are provided to control the fugitive emission at coal storage, coal transfer points and truck unloading area.		
41	A green belt shall be developed all around the plant boundary and also along to mitigate fugitive & transport dust emission.			• **Complied** • Green belt has been developed around the plant boundary.		
42	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.			• **Complied** • Monthly monitoring for VOC has been carried out every month regularly.		
43	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, Cl2 and VOCs shall be carried out in the GPCB. If 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.			• **Complied** • Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained. • If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately. • The location of the monitoring stations and frequency of monitoring are decided in		

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>consultation with GPCB.
• There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).</td></tr>
<tr><td>A. 4</td><td colspan="2">SOLID/ HAZARDOUS WASTE:</td></tr>
<tr><td>44</td><td colspan="2">All the hazardous waste management shall be taken care as mentioned below:
<table>
<tr><th rowspan="2">Sr. no.</th><th rowspan="2">Type/ Name of Hazardous waste</th><th rowspan="2">Specific Source of generation (Name of the Activity.</th><th rowspan="2">Category and</th><th colspan="3">Quantity (MT/Annum)</th><th rowspan="2">Management of HW</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>ETP Sludge</td><td>ETP</td><td>35.3</td><td>1524.50 MT</td><td>2557 MT</td><td>4081.5 MT</td><td>Will be collected stored, transported & Disposed at authorized TSDF site.</td></tr>
<tr><td>2</td><td>Spent Resin</td><td>From Chlor Alkali Plant</td><td>35.2</td><td>0.42 MT</td><td>0.33 MT</td><td>0.75 MT</td><td>Will be collected stored, transported & Disposed at designated CHWIF site.</td></tr>
<tr><td>3</td><td>Spent Carbon</td><td>From Chlor Alkali Plant</td><td>36.2</td><td>0.33 MT</td><td>0.07 MT</td><td>0.40 MT</td><td>Will be collected stored, transported & Disposed at designated CHWIF site.</td></tr>
<tr><td>4</td><td>Used Oil</td><td>From lubrication or D.G. set</td><td>5.1</td><td>128 KL</td><td>100 KL</td><td>228 KL</td><td>Will be collected, stored and sold to authorized recycler.</td></tr>
<tr><td>5</td><td>Discarded Containers</td><td>From Manufacturing</td><td>33.1</td><td>1680 Nos.</td><td>318 Nos.</td><td>1998 Nos.</td><td rowspan="2">Will be collected decontamination, stored and reused/sold to authorized recycler.</td></tr>
<tr><td>6</td><td>Discarded bags, Liners</td><td>From Manufacturing</td><td>33.1</td><td>41.8 MT</td><td>54.2 MT</td><td>96 MT</td></tr>
<tr><td>7</td><td>Dilute Sulphuric Acid (75%-88%)</td><td>From Chlor Alkali Plant</td><td>B-15</td><td>0 MT</td><td>11.500 MT</td><td>11.500 MT</td><td>Collection, storage, transportation and will be sold to Authorized actual users having Rule-9 permission</td></tr>
<tr><td colspan="8">Non-hazardous waste</td></tr>
<tr><td>8</td><td>Brine / Process</td><td>--</td><td></td><td>6066 MT</td><td>2934 MT</td><td>9000 MT</td><td>Will be collected stored, transporte</td></tr>
</table>
• Complied
• We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes.
<table>
<tr><td>Authorization No.</td><td>AWH-134967</td></tr>
<tr><td>Validity</td><td>01/03/2029</td></tr>
</table>
• We have provided separate covered storage area for different types of wastes.
• We are member CHWIF & TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And Shesh Enviro Infra Pvt. Ltd.
• Copy of the membership certificate is attached as Annexure 3.
• Also please note that for HCl, DSA and other haz waste selling under Rule 9 only with GPS AIS 140 Mounted & colour coded vehicles through Manifest system.</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	<table><tr><td></td><td>Sludge</td><td></td><td></td><td></td><td></td><td></td><td>d & disposed off to secured landfill site.</td></tr><tr><td>9</td><td>Fly Ash</td><td>--</td><td></td><td>111600 MT</td><td>27702 MT</td><td>139302 MT</td><td>Sold fly ash to M/s. Anmol & Co., J.K Lakshmi Cement, Ambuja Cement</td></tr></table>	
45	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes(Management and Transboundary Movement) Rules 2016.	• **Complied**
46	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable & fillable wastes before sending to CHWIF & TSDF sites respectively.	• **Complied** • We have explored Nano technology such as Sulphate Extraction System to reduce the quantity of sludge generated from Chlor-alkali plant by 30%. Further we have also installed sludge dryer for drying of sludge.
47	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.	• **Complied** • We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes. • We have provided separate covered storage area for different types of wastes. • We are member CHWIF & TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And Shesh Enviro Infra Pvt. Ltd. • Copy of the membership certificate is attached as **Annexure 3.** • Also please note that for HCl, DSA and other haz waste selling under Rule 9 only with GPS AIS 140 Mounted & colour coded vehicles through Manifest system
48	Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.	• We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal. • Photograph of sludge storage area:

Sr. No.	EC Conditions	Compliance Status
		
49	Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed. Handling of the fly ash shall be through a closed pneumatic system. Ash shall be handled only in dry state.	• At our site we have provided adequate storage facility (Fly Ash Silos) for the fly ash. • We have not constructed any Ash pond at our site 
50	The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	• **Complied** • Fly Ash has been supplied to Cement manufacturing industries, Brick manufacturing industries and used for road reclamation projects. • At our site we are strictly complying with the Fly Ash Notification under EPA and ensuring that there is 100% utilization of fly ash to be generated from the unit. Current fly ash stock is Zero.
A.5	**OTHER:**	
51	The project proponent shall allocate the separate fund of Rs. 2.18 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional	• **Complied**

Sr. No.	EC Conditions	Compliance Status
	office of MoEF&CC as 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.	
52	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd. Ahmedabad and submitted by project proponent commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	• **Complied** • As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly.
53	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules,2016. the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.	• **Noted & Complied**
54	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 unit the desired efficiency of the control equipment has been achieved.	• **Complied** • All pollution control systems installed in our plant area directly connected with process safety inter locks from DCS. For ensure, all the safe requirements meet before any start up. We are also following pre-start up safety review before restart of the system.
55	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	• **Complied** • We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority. • CCA Compliance Report is attached as **Annexure-8.**
56	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environmental Clearance from the concerned authority.	• **Noted** • All future expansion or modifications in the plant will be carried out with prior approval of the MOEF / SEIAA, as the case may be. • In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference will be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required.
57	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, 1981, 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.	• **Complied** We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
58	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.	• **Complied** • Socio-economic developmental / community welfare activities are being carried out as per CSR Rules

Sr. No.	EC Conditions	Compliance Status
		2014. • CSR activities is summarized as per below table and the same is attached as **Annexure-9**
B.	**GENERAL CONDITIONS :**	
B.1	**CONSTRUCTION PHASE**	
59	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	• **Noted and shall be Complied**
60	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 areas for controlling fugitive emission.	• **Noted and shall be Complied**
61	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	• **Noted and shall be Complied**
62	First Aid Box shall be made readily available in adequate quantity at all the times.	• **Noted & Complied**
63	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	•
64	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.	• **Noted & Complied** • We are monitoring Ambient Air quality on daily internally and monthly basis Externally and noise monitoring on month basis internally/externally
65	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.	• **Noted & Complied**
66	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	• **Noted & Complied** • We are disposing municipal waste through authorised vendor
67	All topsoil excavated during construction activity shall be used in horticultural/ landscape development within the project site.	• **Noted & shall be Complied**
68	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 off 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.	• **Noted & shall be Complied**
69	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.	• **Noted & shall be Complied**
70	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.	• **Complied** • We are selling fly ash for purpose of brick manufacturing under the E.P. Act, 1986
71	"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.	• **Noted** • Installation of wind breaker is under progress.
72	"No uncovered vehicles carrying construction material and waste shall be permitted."	• **Complied**

Sr. No.	EC Conditions	Compliance Status
		• We are closely monitoring every vehicle with our video analytic system.
73	"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."	• **Noted & Complied**
74	Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).	• **Noted & Complied**
75	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	• **Noted & Complied**
76	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	• **Noted & Complied**
77	Grinding and cutting of building materials in open area shall be prohibited.	• **Noted & Complied**
78	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	• **Noted & shall be Complied**
79	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	• **Noted & Complied**
B.2	**OPERATION PHASE:**	
B.2.1	**WATER:**	
80	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	• **Complied** • We have installed Water Meter at the inlet. Logbook is maintained to record the water consumption
81	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.	• **Noted & shall be Complied**
B.2.2	**AIR:**	
82	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.	• **Noted & shall be Complied**
83	Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the FPA Rules for air and noise emission standards.	• **Noted & Complied**
84	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 have installed all the stack in accordance to prescribed condition in our CCA.
85	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 are complying condition under prescribed limit in our CCA.
86	All the reactors/ vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	• **Complied** • All vessels and reactor used in manufacturing process are under close loop system with no fugitive emission.
B.2.3	**HAZARDOUS/ SOLID WASTE:**	
87	The company shall strictly comply with the rules and regulations	• **Complied**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>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.</td><td>• We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes.
<table><tr><td>Authorization No.</td><td>AWH-134967</td></tr><tr><td>Validity</td><td>01/03/2029</td></tr></table>• We have provided separate covered storage area for different types of wastes. Photograph of the waste storage area as per below:
• We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro Infrastructure Ltd.
• Copy of the membership certificate is attached as Annexure-3.</td></tr>
<tr><td></td><td colspan="2">   </td></tr>
<tr><td>88</td><td>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.</td><td>• Complied
• We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal.
• Photograph of sludge storage area:</td></tr>
<tr><td></td><td colspan="2">   </td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
		
89	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	• **Complied** • We are a member of TSDF & CHWIF site operated by M/s. BEIL Infrastructure Ltd. & M/s. Safe Enviro Infrastructure Ltd. • Copy of the membership certificate is attached as **Annexure-3.**
90	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** • We are complying with rules under Motor Vehicle Act, 1988 for transportation of hazardous waste. • Photograph of Hazardous Waste disposal Tanker:
		
91	The design of the Trucks/ tankers shall be such that there is no spillage during transportation	• **Complied**
92	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/ CHWIF.	• **Complied** • We have explored Nano technology such as Sulphate Extraction System to reduce the quantity of sludge generated from Chlor-alkali plant by 30%. Further we have also installed sludge dryer for drying of sludge.

Sr. No.	EC Conditions	Compliance Status
93	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 & Complied** • We are complying the Fly Ash Notification on strictly basis and ensuring that we are utilizing 100% of fly ash. • Current stock of Fly ash is Zero.
B.2.4	**SAFETY:**	
94	The occupier/ manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963	• **Complied** We are complying with the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.
95	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.	• **Complied** • We are complying with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. has been obtained. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities obtained before commissioning of the project. Copy of PLI policy is attached as **Annexure-5.** • Requisite On-site and Off-site Disaster Management Plans prepared and implemented.
96	Main entry and exit shall be separate and clearly marked in the facility .	• **Noted.**
97	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	• **Noted.**
98	Storage of flammable chemicals shall be sufficiently away from the production area.	• **Complied** • We have provided tanks and vessels to store hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS. • Photograph of tank:
	 	
99	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	• **Complied** • Sufficient nos. of Fire extinguishers are provided.
10	All necessary precautionary measures shall be taken to avoid	• **Complied**

Sr. No.	EC Conditions	Compliance Status
0	any kind of accident during storage and handling of toxic / hazardous chemicals.	• All necessary precautionary measures have been taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals
101	All the toxic/ hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	• **Complied** • All the toxic/ hazardous chemicals stored in optimum quantity and all necessary permissions in this regard obtained before commencing the expansion activities.
102	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	• **Complied** • We have identified the environment protection measures & risks and take mitigate measures accordingly.
103	Only flame proof electrical fittings shall be provided in the plant premises.	• **Complied** • Flame proof electrical fittings are provided in the required plant area.
104	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** • Storage of hazardous chemicals is minimized and stored in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
105	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.	• **Complied** • All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals. • Photograph of storage tanks:
	 	
106	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	• **Complied** • Handling and charging of the chemicals are in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
107	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	• **Complied** • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch.
10	Personal Protective Equipments (PPEs) shall be provided to	• **Complied**

Sr. No.	EC Conditions	Compliance Status
8	workers and its usage shall be ensured and supervised.	• We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
109	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	• **Complied** • We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
110	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	• **Complied** • Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. • We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site. • We have made six different sub committees of Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system. • Please find below training calendar:
	ADITYA BIRLA GRASIM **Monthly Training Calendar** — October 2025	

Safety							
Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	External	Emergency Preparedness, Basic Fire Fighting & Practical demonstration ,Enablon training for BBSO, Near miss reporting	10-10-2025	8	30	30	EHS Team
All employees	External	Safety in Chemicals Handling	16-10-2025	4	15	15	EHS Team
All employees	External	PTW, Confined Space, Hot Work, Height Work & HIRA, LOTOTO	28-10-2025	8	30	30	EHS Team
All employees	External	PSM, PSE	23-10-2025	8	30	30	EHS Team
Compliance							
Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All Mgmt Cadre	Internal	MOC	27-10-2025	1	30	15	Shubham Tanpure
All Mgmt Cadre	Internal	MOC	18-10-2025	1	30	15	Shubham Tanpure
Applicable to all	Internal	Integrated Management System (ISO-9001,14001, 45001 & 50001)-Awareness Training	08-10-2025	2	30	15	Ms. Smita Ranteke
Functional							
Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	Internal	AI & Excel analytics	YTD	8	30	30	Internal
Behavioural							
Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	Internal	ABG Values & Ethics	14-10-2025	1	30	15	Team HR

111	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.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out. • 100% employees undergo with occupational health surveillance

Sr. No.	EC Conditions	Compliance Status
		every 6 month/ 12 month depending on exposure. Record is available with Occupational Health Centre. Sample report is attached as **Annexure-6.**
112	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	• **Complied** • We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
113	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	• **Complied** • The company will implement all preventive and mitigation measures suggested in the Risk Assessment Report.
114	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	• **Complied** • Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others are obtained prior to commissioning of the project.
B.2.5	**NOISE:**	
115	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.	• **Complied** • The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. • The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules. Third party ambient noise monitoring is carried out by NABL accredited laboratory. • Noise Monitoring Report is summarized as per below table

Noise Results (Apr 25 to Sept 25)

	Reading dB(A)					
Station	**Day time**			**Night time**		
Range	**MIN**	**MAX**	**AVE**	**MIN**	**MAX**	**AVE**
Nr. Main Security Gate	59.7	65.8	62.75	55.2	60.8	58
Nr. ALCP Plant	62.4	66.3	64.35	59.6	63.7	61.65
Nr. PAC Old Powder Plant	60.4	67.3	63.85	58.1	66.3	62.2
Nr. Cl2 Liquifaction Area	61.4	68.2	64.8	57.6	67.2	62.4
Nr. Cl2 Tonner filling Area	62.5	70.9	66.7	59.3	68.1	63.7
Nr. Cl2 compressor area	66.2	73.5	69.85	62.6	68.6	65.6
Nr VAM Chiller area	63.9	71.9	67.9	61.1	69.6	65.35
Nr Utility compressor area	66.2	71.4	68.8	64.1	68.3	66.2
Nr Compressor Area	66.2	72.5	69.35	63.1	70.1	66.6
Nr HSBP Dryer	67.1	74.6	70.85	64.6	70	67.3

B.2.6	**CLEANER PRODUCTION AND WASTE MINIMISATION:**

Sr. No.	EC Conditions	Compliance Status
116	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 carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
117	The company shall undertake various waste minimization measures such as :	
118	Metering and control of quantities of active ingredients to minimize waste.	• **Complied** • We have provided flow meters for wastewater generation. • We have installed RO system for reducing the effluent. • Recycle steam and vapor condensate is used in process & cooling tower. • We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
119	Reuse of by-products from the process as raw materials or as raw materials substitutes.	• **Complied** • We are using Hydrogen as a clean fuel for producing Caustic Soda flakes & Poly Aluminum Chloride. • Use of waste chlorine gas for producing 32% HCl. • Vapor condensate from flaking plant treated by polishing unit and finally used as DM water. • By-product HCl from CPW Plant is used in PAC plant as raw material.
120	Use of automated and close filling to minimize spillages.	• **Complied** • We are using automated and closed filling to minimize spillages.
121	Use of close feed system into batch reactors.	• **Complied** • We are using close feed system into batch reactors.
122	Venting equipment through vapour recovery system.	• **Complied** • We are using venting equipment through vapour recovery system.
123	Use of high pressure hoses for cleaning to reduce wastewater generation.	• **Complied** • High pressure hoses are used for cleaning and reduce the wastewater.
124	Recycling of washes to subsequent batches.	• **Complied**
125	Recycling of steam condensate.	• **Complied** • Recycle steam and vapor condensate is used in process & cooling tower.
126	Sweeping/ mopping of floor instead of floor washing to avoid effluent generation.	• **Complied** • Floors are cleaned through mopping.
127	Regular preventive maintenance for avoiding leakage, spillage etc.	• **Complied** • We are adequately following regular preventive maintenance for avoiding leakage, spillage of any hazardous material in our facility.

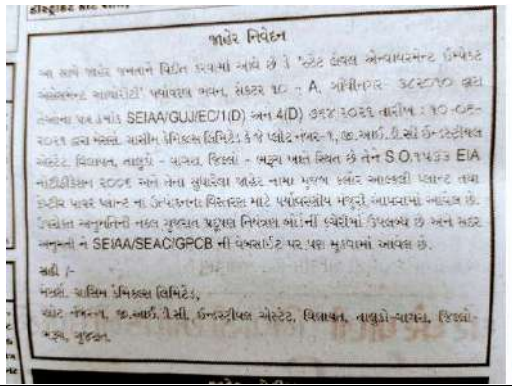
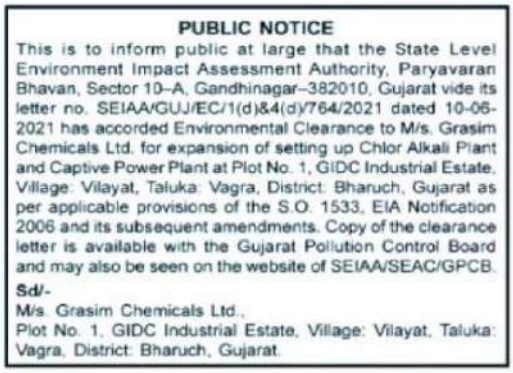
Sr. No.	EC Conditions	Compliance Status
B.2.7	**GREEN BELT AND OTHER PLANTATION:**	
128	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable 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.	• **Complied** • We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
129	Drip irrigation/ low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	• **Complied** • Drip irrigation/ low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m2 area is covered under drip irrigation & low angle sprinkler system.
B.3	**OTHER CONDITION:**	
130	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MOEF&CC vide no. F. No. 22-34/2018-IA,III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).	• **Noted & Complied**
131	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.II dated 01/05/2018 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.	• **Noted & Complied**
132	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** • Rainwater is recovered from roof tops and stored in a rain water harvesting well. • We have already installed 10 nos. of Rain water harvesting station at nearby villages like, Sachan Village, Saran Village, Saykha Vilalge, Derol, Asmita Vikas Kendra, Rahad Primary school, Ankot Primary school, Smt. M.M.M. Patel vidhyalaya, Pisad primary school, Saladra Primary school. • We are exploring more possibilities for rainwater harvesting in nearby area in consultation with a Geo-hydrology expert.

Sr. No.	EC Conditions	Compliance Status
	  	
133	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**
134	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.	• **Complied** Solar landscaping lights are installed for Admin Building and roof mounted solar panels are also installed.
135	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	• **Noted**
136	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**
137	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 & Complied** • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
138	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.	• **Complied** • All pollution control systems installed in our plant are directly connected with process safety inter locks from DCS. • For ensure, all the safe requirements meet before any start up.

Sr. No.	EC Conditions	Compliance Status
		• We are also following pre-start up safety review before restart of the system.
139	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	• **Complied** • We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority. • CCA Compliance Report is attached as **Annexure-8.**
140	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** • For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas.
141	Pucca flooring/ impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	• **Complied** • We have provided RCC and / acid brick line flooring in the required areas. • Photograph of RCC flooring: 
142	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	• **Complied** • We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
143	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.	• **Complied** • All future expansion or modifications in the plant will be carried out after obtaining prior Environment Clearance from the concerned authority.
144	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, 1981, 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.	• **Complied** • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act,1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
145	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.	• **Complied** • Socio-economic developmental / community welfare activities are being carried out as per CSR Rules 2014.

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>• CSR activities is summarized as per below table and the same is attached as Annexure-9</td></tr>
<tr><td>146</td><td>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.</td><td>• Complied
• The company will implement environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.</td></tr>
<tr><td>147</td><td>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.</td><td>• Complied
• Separate fund / budget is identified/ sanctioned on annual basis for Environmental management.
• A year wise expenditure on environmental safeguards is also reported.
<table>
<tr><th colspan="3">Fund Utilized for Environment Management</th></tr>
<tr><th>Sr. No.</th><th>Particulars</th><th>Value (in Cr)</th></tr>
<tr><td>1</td><td>CTE / CCA Application</td><td>0.15</td></tr>
<tr><td>2</td><td>GPCB sampling & analysis charges</td><td>0.05</td></tr>
<tr><td>3</td><td>Schedule-I Environment Audit</td><td>0.5</td></tr>
<tr><td>4</td><td>Monthly Monitoring by Third party</td><td>0.5</td></tr>
<tr><td>5</td><td>Waste Management</td><td>12</td></tr>
<tr><td>6</td><td>Green Belt Development</td><td>0.5</td></tr>
</table></td></tr>
<tr><td>148</td><td colspan="2">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 SEIAA/ 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.</td></tr>
<tr><td></td><td colspan="2">• Complied
• We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB.
Name of Paper: Times of India
Date of Issue: 15/06/2021
In: English language

Name of Paper: Divya Bhaskar
Date of Issue: 15/06/2021</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	In: Gujarati language  જાહેર નિવેદન ... SEIAA/GUJ/EC/1(d) ... 4(D) ... S.O.1533 EIA ...  PUBLIC NOTICE This is to inform public at large that the State Level Environment Impact Assessment Authority, Paryavaran Bhavan, Sector 10–A, Gandhinagar–382010, Gujarat vide its letter no. SEIAA/GUJ/EC/1(d)&4(d)/764/2021 dated 10-06-2021 has accorded Environmental Clearance to M/s. Grasim Chemicals Ltd. for expansion of setting up Chlor Alkali Plant and Captive Power Plant at Plot No. 1, GIDC Industrial Estate, Village: Vilayat, Taluka: Vagra, District: Bharuch, Gujarat as per applicable provisions of the S.O. 1533, EIA Notification 2006 and its subsequent amendments. Copy of the clearance letter is available with the Gujarat Pollution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB. Sd/- M/s. Grasim Chemicals Ltd., Plot No. 1, GIDC Industrial Estate, Village: Vilayat, Taluka: Vagra, District: Bharuch, Gujarat.	
149	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 1st December of each calendar year.	• **Complied** • We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
150	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	• **Complied** • All future expansion or modifications in the plant will be carried out after obtaining prior Environment Clearance from the concerned authority.
151	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• **Complied** • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
152	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	• **Complied** • Socio-economic developmental / community welfare activities are being carried out as per CSR Rules 2014. • CSR activities is summarized as per below table and the same is attached as **Annexure-9**
153	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 & Complied**
154	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 & Complied**
155	This environmental clearance is valid for seven years from the date of issue.	• **Noted** • The EC has already converted into CCA..
156	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.	• **Complied** • There is no appeal against this environmental clearance lie with the National Green Tribunal.
15	Submission of any false or misleading information or data which	• **Noted**

Sr. No.	EC Conditions	Compliance Status
7	is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	• The data submitting which is material to screening or scoping or appraisal or decision on the application are factual and are not false.

Compliance status of Environmental Clearance vide Letter No.: SEIAA/GUJ/EC/5(f)/488/2024 dated 5th Apr 2024

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>The proposal is for Environmental Clearance to M/s. Grasim Industries Limited (Chemical Division) for setting up of expansion of manufacturing plant for 'Synthetic Organic Chemicals' at Plot No.1, GIDC Industrial Estate, Village : Vilayat, Taluka:Vagra, Bharuch, Gujarat. It is an existing unit for manufacturing following products, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:.
<table>
<tr><th rowspan="2">SN</th><th rowspan="2">Product</th><th rowspan="2">CAS NO.</th><th colspan="3">Capacity,TPA</th><th rowspan="2">Enduse</th></tr>
<tr><th>Existing</th><th>Additional</th><th>Total</th></tr>
<tr><td colspan="8">EC Products</td></tr>
<tr><td>A</td><td colspan="7">Caustic Soda Lye & Other VAPs</td></tr>
<tr><td>1</td><td>Caustic Soda Lye</td><td>1310-73-2</td><td>511000</td><td>0</td><td>511000</td><td>Alumina, Textiles, Pulp and Papers, Soaps and detergents</td></tr>
<tr><td>2</td><td>Liq. Chlorine /HCl/ Sodium Hypo</td><td>7782-50-5/ 7647-01-0/ 7681-52-9</td><td>578890</td><td>0</td><td>578890</td><td>Vinyls, Chloro methanes, CPW, Organics Chemicals/ Steel Pickling, Manufacturer of Organic compound/ Disinfectant</td></tr>
<tr><td>3</td><td>Hydrogen</td><td>1333-74-0</td><td>143079999.9 6 Nm3</td><td>0</td><td>143079999.9 6 Nm3</td><td>Green Fuel and Hydrogenation</td></tr>
<tr><td>4</td><td>Poly Aluminium Chloride</td><td>1327-41-9</td><td>250000</td><td>0</td><td>250000</td><td>Potable Water treatment, Effluent Treatment & Others</td></tr>
<tr><td>5</td><td>Stable Bleaching Powder</td><td>7778-54-3</td><td>61000</td><td>0</td><td>61000</td><td>Water treatment, Aquaculture, Textile industry.</td></tr>
<tr><td>6</td><td>Chlorinated Paraffin</td><td>-</td><td>73000</td><td>-73000</td><td>0</td><td>-</td></tr>
<tr><td>7</td><td>Chlorosulphonic Acid</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>8</td><td>Sulphuric Acid</td><td>-</td><td>36500</td><td>-36500</td><td>0</td><td>-</td></tr>
<tr><td>9</td><td>Carbon Disulphide</td><td>-</td><td>31025</td><td>-31025</td><td>0</td><td>-</td></tr>
<tr><td>10</td><td>Aluminium Chloride</td><td>7446-70-0</td><td>30000</td><td>0</td><td>30000</td><td>Agrochemicals, Pigments and Dyes, Pharma, Coating Industries</td></tr>
<tr><td>11</td><td>Sodium Sulphate</td><td>7757-82-6</td><td>2672</td><td>0</td><td>2672</td><td>Sodium Sulphate is used to dryorganic liquids. Asafillerin powdered home laundry detergents. As a fining agent which removes small air bubbles from molten glass.</td></tr>
<tr><td>12</td><td>Captive Power Plant</td><td>-</td><td>176MW</td><td>0</td><td>176MW</td><td>Captive power consumption</td></tr>
<tr><td>B</td><td colspan="7">Chloromethanes</td></tr>
<tr><td>13</td><td>Methyl</td><td>56-23-</td><td>54000</td><td>66000</td><td>120000</td><td>Pharmaceuticals</td></tr>
</table>
</td><td>

Noted.
EC copy is attached as Annexure 1.
For this EC all condition will be complied after commissioning of the project

</td></tr>
</table>

Sr. No.	EC Conditions						Compliance Status
	Chloride	5				and Refrigerant Gases	
14	Methylene Chloride (50% to 80% of total production)	127-18-4					
15	Chloroform (15% to 40% of total production)	67-72-1					
16	Carbon Tetra Chloride (5% to 10% of total production)	56-23-5					
17	Perchloro ethylene	74-87-3	0	40000	40000	PCE is used as dry cleaning & Degreasing agents as well as feed stock for hydrofluorocarbon (HFC) refrigerants.	
18	Hexachloro ethane	75-09-2	0	40000	40000	Hexachloroethane has been used in the formulation of extreme pressure lubricants. It has also been used as a chain transfer agent in the emulsion polymerization of propylene tetra fluoro ethylene copolymer	
19	Carbon TetraChloride	67-66-3	0	50000	50000	As a solvent in the rubber industry	
C	**Fatty Alcohols**						
a	**Fatty Alcohol Manufacturing Plant**						
20	Fatty Alcohol	-	32400	-32400	0	-	
21	Crude Alcohol Refininq (Light)	-	300	-300	0	-	
22	Crude Alcohol Refininq (Heavies)	-	1728	-1728	0	-	
b	**Fatty Alcohol Fractionation Plant**						
23	Fractionated Fatty Alcohol-Light Cul Alcohol	-	6552	-6552	0	-	
24	Fractionated Fatty Alcohol-Middel Cut Alcohol	-	2388	-2388	0	-	
25	Fractionated Fatty Alcohol - Lioht	-	156	-156	0	-	
Non-EC Products							
26	Phosphoric Acid	7664-38-2	35000	0	35000	Detergents and Re-agent chemicals	

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>
<table>
<tr><td>27</td><td>Calcium Chloride</td><td>7440-70-2</td><td>87600</td><td>0</td><td>87600</td><td>Oil Rigs, Anti Freezing agent</td></tr>
<tr><td>28</td><td>Aluminium Chloro Hydrate</td><td>12042-91-0</td><td>5000</td><td>0</td><td>5000</td><td>Water treatment</td></tr>
<tr><td>29</td><td>Calcium Hypochlorite (High Strength Bleaching Powder-HSBP)</td><td>7778-54-3</td><td>24000</td><td></td><td>24000</td><td>Disinfectant, Water treatment, Aquaculture</td></tr>
</table>
The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(i) (lll) (i) (b) of the Environment lmpact Assessment Notification-2006. The SEAC, Gujarat vide their letter dated 11/03/2024 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above mentioned project based on its meeting held on 09l,0212024. The proposal was considered by SEIAA, Gujarat in its meeting held on 28/03/2024 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.</td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>A</td><td>CONDITIONS :</td><td></td></tr>
<tr><td>A.1</td><td>SPECIFIC CONDITION :</td><td></td></tr>
<tr><td>2</td><td>DM Water Regeneration (1745 KLD) from CPP shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in lndustrial Processes and RO reject shall be reused for Coal/ Ash sprinkling and DM Water Regeneration low COD effluent (207 KLD) from CA plant shall be treated in ETP followed by RO & MEE plant and recycle back in lndustrial different purposes.</td><td>• Complied
• Average water consumption for Apr 2025 to Sept 2025 is 11340 KLD, sourced from GIDC water supply.
<table>
<tr><th rowspan="2">Month</th><th>Water Consumption</th><th>Water Recycle / Reuse</th></tr>
<tr><th>KL/Month</th><th>KL/Month</th></tr>
<tr><td>Apr-25</td><td>365901</td><td>55404</td></tr>
<tr><td>May-25</td><td>353594</td><td>58699</td></tr>
<tr><td>Jun-25</td><td>342686</td><td>52322</td></tr>
<tr><td>Jul-25</td><td>340765</td><td>52439</td></tr>
<tr><td>Aug-25</td><td>353885</td><td>46910</td></tr>
<tr><td>Sep-25</td><td>318122</td><td>37358</td></tr>
<tr><td>Min</td><td>318122</td><td>37358</td></tr>
<tr><td>Max</td><td>365901</td><td>58699</td></tr>
<tr><td>Avg</td><td>345825</td><td>50522</td></tr>
</table></td></tr>
<tr><td>3</td><td>Boiler Condensate water (7790 KLD) shall be recycle back in boiler make up and (3830 KLD) shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in lndustrial Processes and RO reject shall be reused for Coal/Ash sprinkling.</td><td></td></tr>
<tr><td>4</td><td>Process low COD effluent (196 KLD) from CA plant shall be treated in ETP & shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.</td><td></td></tr>
<tr><td>5</td><td>PP shall operate ETP 40,000 KLD capacity & RO 10,000 KLD capacity regularly.</td><td>• Following are the GIDC offer cum allotment letter details:
<table>
<tr><th>Sr. no.</th><th>Letter no.</th><th>Water supply</th><th>Effluent discharge</th></tr>
<tr><td>1</td><td>GIDC/PROJ/MKT/GRASIM/575 Dated 6th December 2006</td><td>15.60 MLD</td><td>12.48 MLD</td></tr>
<tr><td>2</td><td>GIDC/SE/CG/BRH/1236 Dated 29th December 2016</td><td>25 MLD</td><td>19.4 MLD</td></tr>
<tr><td>3</td><td>GIDC/ENG/CE/34 Dated 9th October 2017</td><td>55-56 MLD</td><td>--</td></tr>
<tr><td>4</td><td>GIDC/BRH/DEE (DRG)/659</td><td>--</td><td>23 MLD</td></tr>
</table>
• Copy of agreement letter is attached as Annexure-4.</td></tr>
<tr><td>6</td><td>PP shall operate ETP 2500 KLD, RO 3120 KLD & MEE 630 KLD capacity regularly.</td><td></td></tr>
<tr><td>7</td><td>PP shall carry out CER activity of their project cost (1.5 Crore), as per their submission vide OM of MoEF & CC dated 1.5.2018</td><td>• It will be complied.</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	and its amendment.	
8	PP shall provide total Green area of 59% as per their submission.	• **Complied** • We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
9	Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 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.	• **Complied** • We have already installed online monitoring system at final outlet of ETP for pH & TOC parameters for existing ETP and the same can be accessed by the GPCB on real time basis. • Online Monitoring system has been installed on all process stack to monitor HCl, Cl2 & NOx concentration and also it is connected with GPCB/CPCB Server..
10	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No.826 (E) dated 16th November, 2009 shall be complied with.	• **Complied** • Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained. • If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately. • The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB. • There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).
11	National Emission Standards for Organic Chemicals Manufacturing industry issued by the Ministry vide G. S. R. 608 (E) dated 21/O712010 and amended from time to time shall be followed. (In case of other than Pharma and dyes).	• **Complied**
12	National Emission Standards for Bulk drug and formulation (Pharmaceuticals) Industry issued by the Ministry vide G. S. R. 541 (E) dated 06/08/2021 and amended from time to time shall be followed. (In case of Pharma)	• **Not Applicable**
13	National Emission Standards for Dye and dye intermediates Industry issued by the Ministry vide G. S. R. 325 (E) dated 07/05/2014 and amended from time to time shall be followed. (In case of Dyes).	• **Not Applicable**
14	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.	• **Noted & Complied**
15	All measures shall be taken to avoid soil and ground water contamination within premises.	• **Complied** • We have provided RCC and / acid brick line flooring in the required areas.

Sr. No.	EC Conditions	Compliance Status
		
	Safety & Health	
16	PP shall obtain PESO permission for the storage and handling of hazardous chemicals. (If applicable).	• **Complied** • We have obtained requisite permission from Petroleum & Explosives Safety Organization (PESO), Nagpur before commissioning of the project. • Copy of PESO License are attached as Annexure-2.
17	PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.	• **Complied** • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch
18	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.	• **Not applicable** • It is not applicable as per Circlular H/V/68 OF 2021/AGN-102021-100-L1 from DISH.
19	Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.	• **Complied** • We have adopted functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes
20	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.	• **Complied** • Unit is carrying out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in manufacturing area in case of any emergency or accident
21	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.	• **Complied** • We have already installed adequate fire hydrant system within premises and separate storage of water for existing scenario
22	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** • All the chemicals/ materials are stored in the storage tanks with required material of Construction. • Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines.
23	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	• **Complied** • Flame proof electrical fittings are provided in the required plant area.
24	Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	• **Complied**
25	Unit shall provide effective Isolation for Process area and storage of hazardous chemicals.	• **Complied**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>• Primary and Secondary containment are available for process area and Hazardous waste chemicals.</td></tr>
<tr><td>26</td><td>The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.</td><td>• Complied
• Requisite On-site and Off-site Disaster Management Plans prepared and implemented.</td></tr>
<tr><td>27</td><td>Unit shall provide chlorine leakage control emergency kit and FRP hood with scrubber system for chlorine safety.</td><td>• Complied
• Chlorine leakage control emergency kit and FRP hood with scrubber system for chlorine safety are provided in required areas.</td></tr>
<tr><td>28</td><td>Unit shall provide safety valve and rapture disc, as well as auto dump or auto quench/, suppress system for polymerization vessel safety.</td><td>• Complied
• Safety valve and rapture disc are provided wherever required.</td></tr>
<tr><td>A.2</td><td>WATER</td><td></td></tr>
<tr><td>29</td><td>Total water requirement for the project shall not exceed 27,701 KLD. Unit shall reuse 14,008 KLD of treated effluent within premises. Hence, fresh water requirement shall not exceed 13,693 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for procurement of water.</td><td>• Noted & complied</td></tr>
<tr><td>30</td><td>The industrial effluent generation from the project shall not exceed 16757.5 KLD.</td><td>• Complied
• We have generated effluent under given permission</td></tr>
<tr><td></td><td>Management of Industrial effluent shall be as under:</td><td></td></tr>
<tr><td>31</td><td><u>Concentrated Stream (645 KLD):</u>
• 645 KLD of high COD effluent generated i.e. from process (150 KLD) CMS Plant shall be treated in ETP & from that 139 KLD shall be discharge into deep sea through GIDC Pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment and 11 KLD treated effluent shall be recycle back in Process and cooling tower makeup (495 KLD) from CMS plant shall be treated in ETP followed by RO plant and recycle back in different industrial purposes.</td><td rowspan="6">• Noted
• We are in process to commissioning ZLD within premises.
<table><tr><th rowspan="2">Month</th><th>Waste water generation</th></tr><tr><th>KL/Month</th></tr><tr><td>Apr-25</td><td>95483</td></tr><tr><td>May-25</td><td>99542</td></tr><tr><td>Jun-25</td><td>95106</td></tr><tr><td>Jul-25</td><td>96277</td></tr><tr><td>Aug-25</td><td>95998</td></tr><tr><td>Sep-25</td><td>83616</td></tr><tr><td>Min</td><td>83616</td></tr><tr><td>Max</td><td>99542</td></tr><tr><td>Average</td><td>94337</td></tr></table></td></tr>
<tr><td>32</td><td><u>Dilute Stream (16112.5 KLD):</u>
• DM water regeneration (1745 KLD) from CPP shall be treated in ETP followed by RO plat and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling and DM Water Regeneration low COD effluent (207 KLD) from CA plant shall be treated in ETP followed by RO & MEE plant and recycle back in Industrial different purposes</td></tr>
<tr><td>33</td><td>• Boiler Condensate water (7790 KLD) shall be recycle back in boiler make up and (3830 KLD) shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling.</td></tr>
<tr><td>34</td><td>• Process low COD effluent (196 KLD) from CA plant shall be treated in ETP & shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.</td></tr>
<tr><td>35</td><td>• Process low COD effluent (196 KLD) from CA plant shall be treated in ETP & shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.</td></tr>
<tr><td>36</td><td>• Cooling tower makeup (1500 KLD) from CPP shall be treated in ETP followed by RO Plant and RO permeate</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling, and Cooling Tower Makeup low COD effluent (355 KLD) from CA plant shall be treated in ETP & shall be discharge to deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.</td><td></td></tr>
<tr><td>37</td><td>• Washing effluent (130 KLD) from CPP shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling, and Washing low COD effluent (355 KLD) from CA plant shall be treated in ETP & from that 49 KLD treated effluent shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment. Other 306 KLD goes for further treatment in RO followed by MEE plant and recycled back in different industrial purposes</td><td></td></tr>
<tr><td>38</td><td>• Others (Scrubber) low COD effluent (4.5 KLD) from CA plant shall be treated in ETP followed by RO & MEE plant and recycled back in different industrial purpose.</td><td></td></tr>
<tr><td>39</td><td>Domestic wastewater generation shall not exceed 138.4 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off 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.</td><td>• Complied
• Domestic wastewater is being treated in STP and average domestic wastewater generation for Apr 2025 to Sept 2025.
<table><tr><th>Month</th><th>Domestic
KL/Month</th></tr><tr><td>Apr-25</td><td>6647</td></tr><tr><td>May-25</td><td>8149</td></tr><tr><td>Jun-25</td><td>7119</td></tr><tr><td>Jul-25</td><td>7174</td></tr><tr><td>Aug-25</td><td>9035</td></tr><tr><td>Sep-25</td><td>9234</td></tr></table></td></tr>
<tr><td>40</td><td>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.</td><td>• Complied
• During monsoon season, the treated sewage is stored in existing guard pond/ polishing pond. We will ensure that no discharge of waste water outside the premises.</td></tr>
<tr><td>41</td><td>Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy day.</td><td>• Noted & Complied
• We are working on reusing of STP treated water in our cooling towers.</td></tr>
<tr><td>42</td><td>Treated waste water shall be sent to common facilities into deep sea through GIDC 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>• Complied
• The treated waste water confirming to the GPCB/ CPCB/ MoEF&CC norms are discharged into GIDC underground pipeline for final disposal to deep sea through GIDC.</td></tr>
<tr><td>43</td><td>The PP shall ensure to dispose off Waste water to the Common Facilities having valid CTO of GPCB.</td><td>• Complied
• The Waste water has been disposed off to the common facilities as per valid CTO.</td></tr>
<tr><td>44</td><td>Unit shall feed wastewater to in-house MEE only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.</td><td>• Noted and will be followed</td></tr>
<tr><td>45</td><td>Unit shall provide STP and ETP with adequate capacity.</td><td>• Complied
• We have provided primary treatment facility (neutralization pit) in our unit and</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>then neutralized effluent is sent to SFD plant ETP comprising of primary & secondary treatment facility. We have installed STP as per following specification:
• Design Capacity of STP: 1080 KLD
• Design Basis:
• Flow: 1080 m3/day.
• BOD: 250-270 mg/l.
• COD: 400-600 mg/l
• TSS: 400 mg/l
• pH: 6 - 9
• We are operating our ETP & STP regularly and efficiently so as to achieve desired norms prescribed by MoEF&CC / CPCB / GPCB.</td></tr>
<tr><td>46</td><td>The unit shall provide metering facility at the inlet and outlet of ETP and maintain records for the same.</td><td>• Complied
• We have provided metering facility at inlet & outlet of the ETP and maintain the records of the same regularly.</td></tr>
<tr><td>47</td><td>Proper logbooks of ETP, reuse/ recycle of treated/ untreated effluent; chemical consumption in effluent treatment; quantity & quality of treated effluent sent to common facilities; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.</td><td>• Complied
• Proper logbooks of ETP operations is maintained, also maintaining chemicals consumed, treated water reused, power consumed etc. and submitted in the Monthly Patrak on GPCB XGN.</td></tr>
<tr><td>A.3</td><td>AIR:</td><td></td></tr>
<tr><td>48</td><td>Unit shall not exceed fuel consumption for boilers, Flaker Plant and DG set as mentioned below:
<table>
<tr><th>Sr. no.</th><th>Source of emission with Capacitv</th><th>Type & Quantity of Fuel</th><th>Height of the Stack/ Vent (m)</th><th>Type of emissions i.e. Air Pollutants</th><th>Air Pollution Control Measures</th></tr>
<tr><td colspan="6">Total After Proposed Expansion</td></tr>
<tr><td>1</td><td>Boiler 1 & 2</td><td rowspan="2">Coal [100 MT/hr]</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>2</td><td>Boiler 3 & 4</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>3</td><td>Boiler 5 & 6</td><td>Coal [71.16 MT/hr]</td><td>125</td><td>PM
SO2
NO2</td><td>ESP and Low NOx Burners</td></tr>
<tr><td>4</td><td>D.G. Sets (1875 KVA x 2)</td><td>HSD [400 lit/hr. each]</td><td>36</td><td>PM
SO2
NO2</td><td>Adequate Stack Height</td></tr>
<tr><td>5</td><td>D.G. Sets (750 KVA x 3)</td><td>HSD[200 lit/hr. each]</td><td>11</td><td>PM
SO2
NO2</td><td>Adequate Stack Height</td></tr>
<tr><td>6</td><td>D.G. Sets (1875 KVA x 2)</td><td>HSD[400 lit/hr. each]</td><td>31</td><td>PM
SO2
NO2</td><td>Adequate Stack Heiqht</td></tr>
<tr><td>7</td><td>D.G. Sets (1875 KVA x 1)</td><td>HSD (400 lit/hr. each]</td><td>36</td><td>PM
SO2
NO2</td><td>Adequate Stack Heiqht</td></tr>
<tr><td>8</td><td>Flaker Plant</td><td>Hydrogen [447.1 kg/hr.]</td><td>40</td><td>PM
SO2
NO2</td><td>Adequate Stack Heiqht</td></tr>
<tr><td>9</td><td>2 nos. of Hot Oil Furnace</td><td>NG 150KG/HR</td><td>30</td><td>PM
SO2
NO2</td><td>Adequate Stack Heiqht</td></tr>
</table></td><td>• Complied
<table>
<tr><th rowspan="2">Month</th><th>Coal</th><th>Diesel</th><th>Hydrogen</th></tr>
<tr><th colspan="3">MT/Month</th></tr>
<tr><td>Apr-25</td><td>72274</td><td>0</td><td>0</td></tr>
<tr><td>May-25</td><td>76267</td><td>0</td><td>0</td></tr>
<tr><td>Jun-25</td><td>67054</td><td>0</td><td>0</td></tr>
<tr><td>Jul-25</td><td>63839</td><td>0</td><td>0</td></tr>
<tr><td>Aug-25</td><td>69051</td><td>0</td><td>0</td></tr>
<tr><td>Sep-25</td><td>59776</td><td>0</td><td>0</td></tr>
</table></td></tr>
<tr><td>49</td><td>PP shall use approved fuels only as fuel in Boilers, Flaker Plant, Hot Furnaces and DG Sets.</td><td>• Noted</td></tr>
<tr><td>50</td><td>Unit shall provide adequate APCM with flue gas generation</td><td>• Complied</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>sources to achieve the norms prescribed by GPCB</td><td>• We have provided ESPs in Boiler stacks.</td></tr>
<tr><td>51</td><td>Unit shall provide adequate APCM with process gas generation sources as mentioned below:
<table>
<tr><th>SN</th><th>Specific Source of emission (Name of the Product & Process</th><th>Stack/ Vent Height (meter)</th><th>Type of Emission</th><th>Air Pollution Control Measures (APCM)</th></tr>
<tr><td>1</td><td>Sodium Hypo Stack 1 (Caustic Plant)</td><td>35</td><td>Cl_2-9 mg/Nm^3</td><td>Alkali Scrubber</td></tr>
<tr><td>2</td><td>HCI stack 1 (Caustic Plant)</td><td>35</td><td rowspan="2">HCl- 35 mg/Nm^3
Cl_2-9 mg/Nm</td><td rowspan="2">Water scrubber having bubble cap tray absorption system.</td></tr>
<tr><td>3</td><td>HCI stack 2 (Caustic Plant)</td><td>35</td></tr>
<tr><td>4</td><td>Poly Aluminium Chloride Plant</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Water scrubber system</td></tr>
<tr><td>5</td><td>Chlorinated Paraffin plant</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Alkali scrubbing system</td></tr>
<tr><td>6</td><td>Aluminium Chloride</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Alkali scrubbing system</td></tr>
<tr><td>7</td><td>Stable Bleaching Powder</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Alkali scrubbing system</td></tr>
<tr><td>8</td><td>Phosphoric Acid Plant</td><td>35</td><td>HCl- 20 mg/Nm^3
HF- 6 mg/Nm^3</td><td>Water Scrubber</td></tr>
<tr><td>9</td><td>Calcium Chloride</td><td>35</td><td>HCl- 20 mg/Nm3</td><td>Water Scrubber</td></tr>
<tr><td>10</td><td>Sodium Hypo stack 2 (Caustic Plant)</td><td>35</td><td>Cl_2- 9 mg/Nm^3</td><td>Alkali Scrubber</td></tr>
<tr><td>11</td><td>HCl stack 3 (Caustic Plant)</td><td>35</td><td>HCl- 35 mg/Nm^3</td><td rowspan="2">Water scrubber having bubble cap tray absorption system.</td></tr>
<tr><td>12</td><td>HCl stack 4 (Caustic Plant)</td><td>35</td><td></td></tr>
<tr><td>13</td><td>Poly Aluminium Chloride Liquid</td><td>35</td><td rowspan="2">HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Water scrubber system</td></tr>
<tr><td>14</td><td>Poly Aluminium Chloride Powder</td><td>35</td><td>3 stage water scrubber system</td></tr>
<tr><td>15</td><td>Chlorinated Paraffin plant</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Alkali scrubbing system</td></tr>
<tr><td>16</td><td>Aluminium Chloride</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Alkali scrubbing system</td></tr>
<tr><td>17</td><td>Stable Bleaching Powder</td><td>35</td><td>HCl- 20 mg/Nm^3
Cl_2- 9 mg/Nm^3</td><td>Alkali scrubbing system</td></tr>
<tr><td>18</td><td>Vent attached to Reactor</td><td>35</td><td>H2 gas*</td><td>--</td></tr>
<tr><td>19</td><td>Vent attached to dryer 1 (HSBP)</td><td>21</td><td>PM<150mg/Nm3</td><td>Bag Filter</td></tr>
<tr><td>20</td><td>Vent attached to dryer 2 (HSBP)</td><td>21</td><td>PM<150mg/Nm3</td><td>Bag Filter</td></tr>
<tr><td>21</td><td>Vent attached to reaction vessel-1 (HSBP)</td><td>21</td><td>Cl2< 5 mg/m3</td><td>Water/ Caustic Scrubber</td></tr>
<tr><td>22</td><td>Vent attached to reaction vessel-2 (HSBP)</td><td>21</td><td>Cl2< 5 mg/m3</td><td>Water/ Caustic Scrubber</td></tr>
<tr><td>23</td><td>Hydro Chlorinator - CMS plant</td><td>35</td><td>HCl- 20 mg/Nm3</td><td>Alkali Scrubber</td></tr>
<tr><td>24</td><td>Crude CMS Distillation – CMS Plant</td><td>35</td><td>VOC< 1µg/m3</td><td>Condenser and guard condenser with cooling water circulation & chilled circulation</td></tr>
<tr><td>25</td><td>Heavies CMS Distillation – CMS Plant</td><td>35</td><td>VOC< 1µg/m3</td><td>Condenser and guard condenser with cooling water circulation & chilled circulation</td></tr>
</table></td><td>• Complied
• We have provided adequate APCM to all process stacks. Online monitoring system is also provided and it is connected to CPCB & GPCB server.</td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status

26	HCl stack-5 (Caustic Plant)	35	HCl- 20 mg/Nm3	Water Scrubber having bubble cap tray absorption system
27	HCl stack-6 (Caustic Plant)	35		Water Scrubber having bubble cap tray absorption system
28	CTC Plant Stack	30	HCl & Cl_2	Alkali Scrubber
29	PCE plant Stack	30	HCl & Cl_2	Alkali Scrubber
30	CMS Plant Stack	30	HCl & Cl_2	Alkali Scrubber

Apr 25 to Sept 25

Stack	Range	HCl mg/Nm3	Cl2 mg/Nm3	HF mg/Nm3	PM mg/Nm3
Sodium Hypo Stack 1	Min	-	2.50	-	-
	Max	-	3.00	-	-
	Avg	-	2.75	-	-
Sodium Hypo Stack 2	Min	-	1.10	-	-
	Max	-	1.60	-	-
	Avg	-	1.35	-	-
HCl Stack 1	Min	5.80	-	-	-
	Max	6.50	-	-	-
	Avg	6.15	-	-	-
HCl Stack 2	Min	4.70	-	-	-
	Max	6.90	-	-	-
	Avg	5.80	-	-	-
HCl Stack 3	Min	3.90	-	-	-
	Max	5.30	-	-	-
	Avg	4.60	-	-	-
HCl Stack 4	Min	4.00	-	-	-
	Max	4.50	-	-	-
	Avg	4.25	-	-	-
PAC Liquid Plant	Min	1.40	4.30	-	-
	Max	1.80	5.60	-	-
	Avg	1.60	4.95	-	-
PAC Powder Plant 1	Min	5.20	3.10	-	-
	Max	7.20	4.40	-	-
	Avg	6.20	3.75	-	-
PAC Powder Plant 2	Min	6.80	3.50	-	-
	Max	7.60	4.30	-	-
	Avg	7.20	3.90	-	-
Chlorinated Paraffin Plant	Min	2.50	3.20	-	-
	Max	3.40	4.70	-	-
	Avg	2.95	3.95	-	-
Alluminium Chloride	Min	3.40	3.40	-	-
	Max	4.20	4.50	-	-
	Avg	3.80	3.95	-	-
Stable Bleaching Powder Plant	Min	3.20	5.10	-	-
	Max	3.80	5.60	-	-
	Avg	3.50	5.35	-	-
Vent attached to Dryer 1 (HSBP)	Min	-	-	-	6.10
	Max	-	-	-	11.40
	Avg	-	-	-	8.75
Vent attached to Dryer 2 (HSBP)	Min	-	-	-	5.10
	Max	-	-	-	6.20
	Avg	-	-	-	5.65
CMS Plant (Hydro chlorinator)	Min	6.40	-	-	7.30
	Max	7.30	-	-	7.30
	Avg	6.85	-	-	7.30

52	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to 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:

Sr. No.	EC Conditions	Compliance Status
53	Internal roads shall be either concreted or asphalted or reduce the fugitive emission during vehicular movement.	• **Complied** • We have constructed RCC roads in our site
54	Air borne dust shall be controlled with water sprinklers locations in the plant.	• **Complied** • Water sprinklers are provided to control the fugitive emission at coal storage, coal transfer points and truck unloading area.
	  	
55	A green belt shall be developed all around the plant boundary and also along to mitigate fugitive & transport dust emission.	• **Complied** • Green belt has been developed around the plant boundary.
56	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.	• **Complied** • Monthly monitoring for VOC has been carried out every month regularly. • Photograph 
43	Regular monitoring of ground level concentration of PM10, PM2.5, SO_2, NO_x, Cl_2 and VOCs shall be carried out in the GPCB. If 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.	• **Complied** • Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained. • If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately. • The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB. • There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).
44	For control of fugitive emission, VOCs, following steps shall be followed :	
	a. Closed handling and charging system shall be provided for chemicals	• **Complied** • Closed handling and charging system is provided in required areas

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>b. Reflux condenser shall be provided over Reactors / Vessels</td><td>• Complied
• Guard condenser provided</td></tr>
<tr><td></td><td>c. Pumps shall be provided with mechanical seals to prevent leakages</td><td>• Complied
• Closed mechanical seal provided in pumps</td></tr>
<tr><td></td><td>d. Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.</td><td>• Complied</td></tr>
<tr><td>45</td><td>Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.</td><td>• Complied
• LDAR program has been prepared and sufficient sensors/detectors are provided.</td></tr>
<tr><td>46</td><td>Regular monitoring of ground level concentration of PM 10, PM 2.5, SO_2, NO_x, HCl, HF, Cl2 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. If 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.</td><td>• Complied
• Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained.
• If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately.
• The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB.
• There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).</td></tr>
<tr><td>A.4</td><td colspan="2">SOLID/ HAZARDOUS WASTE:</td></tr>
<tr><td>44</td><td colspan="2">All the hazardous waste management shall be taken care as mentioned below:
<table>
<tr><th rowspan="2">Sr. no.</th><th rowspan="2">Type/ Name of Hazardous waste</th><th rowspan="2">Specific Source of generation</th><th rowspan="2">Category and Schedule</th><th colspan="3">Quantity (MT/Annum)</th><th rowspan="2">Treatment / Disposal</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Chemical Sludge from Waste water Treatment</td><td>Waste water Treatment Plant</td><td>35.3</td><td>10,005 MT</td><td>0 MT</td><td>10,005 MT</td><td>Collection, storage, transportation & disposal at TSDF site OR disposal by selling to end user under Rule-9</td></tr>
<tr><td>2</td><td>Spent ion Exchange Resin</td><td>From Chlor Alkali Plant/ Filters</td><td>35.2</td><td>5 MT</td><td>-</td><td>5 MT</td><td>Collection, storage, transportation & disposal at TSDF.</td></tr>
<tr><td>3</td><td>Spent Carbon</td><td>From Chlor Alkali Plant</td><td>36.2</td><td>40.4 MT</td><td>0 MT</td><td>40.4 MT</td><td>Will be collected stored, transported & Disposed at designated CHWIF site.</td></tr>
<tr><td>4</td><td>Used Spent Oil</td><td>From lubrication or D.G. set</td><td>5.1</td><td>228 KL</td><td>2 KL</td><td>230 KL</td><td>Collection, storage, transportation & disposal by selling to registered re-refiners</td></tr>
</table>
• Complied
• We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes.
<table>
<tr><td>Authorization No.</td><td>AWH-134967</td></tr>
<tr><td>Validity</td><td>01/03/2029</td></tr>
</table>
• We have provided separate covered storage area for different types of wastes.
• We are member CHWIF & TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And M/s. Safe Enviro Infrastructure Ltd..
• Copy of the membership certificate is attached as Annexure 3.
• Also please note that for HCl, DSA and other haz waste selling under Rule 9 only with GPS AIS 140 Mounted & colour coded vehicles through Manifest system.
• Proposed Qty will be disposed in sound manner as mentioned in disposal mode when the prposed plant will be in operation</td></tr>
</table>

Sr. No.	EC Conditions								Compliance Status
	5	Discarded Containers	From Manufacturing	33.1	2318 Nos.	182 Nos.	2500 Nos.	Collection storage, transportation, reuse or disposal by by selling to end user under Rule-9.	
	6	Discarded bags/ Liners	From Manufacturing	33.1	96 Nos.	454 Nos.	550 Nos.		
		Incinerable Waste	From Process	36.1	142 MT	940 MT	1082 MT	Collection. Storage, transportation, disposal at CHWIF site	
		Spent Acid (HCl)	from CPW, CMS & PCE Plant	B15	142500 MT	246834MT	389334 MT	Collection, storage, transportation through pipeline and disposal by consuming in house in manufacturing of Poly Aluminium Chloride and Phosphoric Acid and selling to end user under Rule-9.	
		Spent Acid (Dilute Sulphuric Acid)	from CPW & CMS Plant	815	27000 MT	58249 MT	85249 MT	Collection, Storage, Transportation through pipeline and disposal by selling to end user under Rule-9.	
		Residue/ sludge & filter cake	From CA Plant	16.2	1500 MT	0	1500 MT	Collection, storage, transportation & disposal at TSDF site OR disposal by selling to end user under Rule-9.	
		ETP Sludge	From ETP	35.3	4081.5 MT	210 MT	4291.5 MT	Collection, storage, transportation & disposal at TSDF site OR disposal by selling to end user under Rule-9	
		MEE Salt	From MEE/ATFD	35.3	0	2500 MT	2500 MT	Collection, Storage, transportation & Disposal at TSDF Site	
		Sodium Chloride (consist of 90% NaCl)	From Process	-	9000 MT	0	9000 MT	Collection, Storage, transportation and disposal by selling to end User or TSDF site.	
		Aluminium Dross Waste	From ALCP	-	50 MT	-	50 MT	Collection, storage,	

Sr. No.	EC Conditions	Compliance Status

		Process					transportation and disposal at TSDF site.
	Batteries	From entire site	-	100 Nos.	20 Nos	120 Nos.	Collection, storage, disposal as per the Batteries Management and Handling Rules,2010
	E-Waste	From entire site	-	1 MT	9MT	10 MT	Collection, storage, disposal as per the E-Waste Management Rules 2016
	Insulating Material	From entire site	-	25 MT	25 MT	50 MT	Collection, storage, disposal by selling to authorized recycler.
	Spent Catalyst	From CMS Process	-	25 MT	2333 MT	2358 MT	Collection, storage, transportation & disposal at TSDF site.
8	Brine Sludge	From CA plant	-	9000 MT	0 MT	9000 MT	Collection, storage, transportation & disposal at TSDF site

NON-HAZARDOUS WASTE MANAGEMENT MATRIX

SN	Type/ Name of non-hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Quantity per Year			Management of HW
			Existing	Proposed	Total	
1	Municipal Solid Waste	Canteen	540 Kg/Day	construction phase = 18 kg/day Operation phase = 49 Kg/Day	607 Kg/Day	Shall be handled as per the Solid Waste Management Rules, 2016 as amended from time to time. On-site facilities (such as Organic Waste Converters (OWC)) for biodegradable wastes generated by canteen has been set up.
2	Fly Ash	From Boiler-CP	139302 MT	0	139302 MT	Collection, storage, Transportation & Disposal by selling to Brick manufacturing /Cement industry as per fly ash notification/rules
3	Phospho gypsum Sludge from PA Plant	From PA Plant	30215 MT	0	30215 MT	Collection, storage, transportation & disposal as per the "Guidelines for Management, Handling, Utilisation and Disposal of Phospho Gypsum Generated from

Sr. No.	EC Conditions	Compliance Status
	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>Phosohoric Acid Plants" issued bv Central Pollution Control Board in October 2014.</td></tr><tr><td>4</td><td>Biomedical Waste</td><td>Occupational Health Centre (OHC)</td><td colspan="3">As & when generated</td><td>Shall be handled as per the Bio-Medical Waste Management Rules,2016 as amended from time to time</td></tr><tr><td>5</td><td>Construction and Demolition (C&D) Wastes</td><td>Entire Site</td><td colspan="3">As & when generated</td><td>Shall be handled as per the Construction and Demolition Waste Management Rules, 2016 as amended from time to time.</td></tr><tr><td>6</td><td>Plastic wastes</td><td>Entire Site</td><td colspan="3">As & when generated</td><td>Shall be handled as per the Plastic waste (Management & Handling) Rules,2016 as amended.</td></tr><tr><td>7</td><td>Non-Hazardou metallic scrap, wooden & paper scrap</td><td>Entire Site</td><td colspan="3">As & when generated</td><td>Sold to scrap dealers duly approved by the company</td></tr></table>	
45	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes(Management and Transboundary Movement) Rules 2016.	• **Complied**
46	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable & fillable wastes before sending to CHWIF & TSDF sites respectively.	• **Complied** • We have explored Nano technology such as Sulphate Extraction System to reduce the quantity of sludge generated from Chlor-alkali plant by 30%. Further we have also installed sludge dryer for drying of sludge.
47	The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB.	• **Complied** • We are a member of TSDF & CHWIF site operated by M/s. BEIL Infrastructure Ltd., M/s. Safe Enviro, Jambusar, M/s. Shesh Enviro Infrastructure Pvt. Ltd. • Copy of the membership certificate is attached as Annexure-3**.**
48	Management of fly ash 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.	• **Complied** • At our site we are strictly complying with the Fly Ash Notification under EPA and ensuring that there is 100% utilization of fly ash to be generated from the unit. Current fly ash stock is Zero.
49	STP sludge shall be collected and used as manure in gardening activity or send to TSDF site for landfilling.	• **Noted & will be complied**
50	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.	• **Noted & will be complied**
A.5	**OTHER:**	
51	The project proponent shall carry out the activities of amount of Rs. 1.5 Crores Environment: Providing solar street lights for self-sustaining Green technology, Rooftop rain water harvesting with percolation well in Government primary	• **Noted and shall be Complied**

Sr. No.	EC Conditions	Compliance Status
	schools for self-sustaining Green technology, Toilet blocks in schools, Tree Plantation, Waste collection and disposal system and Rooftop Solar panel for Anganwadi, Primary schools and health centres, Social/Health/Hygiene: School infrastructure and Facilities, Anganwadi infrastructure, Medical camps and Other infrastructure development i.e. renovation, road, shed etc.) proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No.22-65/2017-IA.lll dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as 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.	
52	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Kadam Environmental Consultants and submitted by the project proponent and commitments made during presentation before SEAC and proposed ln the EIA report shall be strictly adhered to in letter and spirit.	• **Noted and shall be Complied**
B.	**GENERAL CONDITIONS :**	
B.1	**CONSTRUCTION PHASE**	
59	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	• **Noted and shall be Complied**
60	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 areas for controlling fugitive emission.	• **Noted and shall be Complied**
61	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	• **Noted and shall be Complied**
62	First Aid Box shall be made readily available in adequate quantity at all the times.	• **Noted & Complied**
63	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	• Complied
64	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.	• **Noted & Complied** • We are monitoring Ambient Air quality on daily internally and monthly basis Externally and noise monitoring on month basis internally/externally
65	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	• **Noted & Complied**
66	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	• **Noted & Complied** • We are disposing municipal waste through authorised vendor
67	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	• **Noted & shall be Complied**
68	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 off 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	• **Noted & shall be Complied**

Sr. No.	EC Conditions	Compliance Status
	neighbouring communities.	
69	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.	• **Noted & shall be Complied**
70	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.	• **Complied** • We are selling fly ash for purpose of brick manufacturing under the E.P. Act, 1986
71	"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.	• **Provided** • Installation of wind breaker is under progress.
72	"No uncovered vehicles carrying construction material and waste shall be permitted."	• **Complied** • We are closely monitoring every vehicle with our video analytic system.
73	"No loose soil or sand or construction & demolition waste or any other construction material that can cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	• **Noted & Complied**
74	Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).	• **Noted & Complied**
75	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	• **Noted & Complied**
76	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	• **Noted & Complied**
77	Grinding and cutting of building materials in open area shall be prohibited.	• **Noted & Complied**
78	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	• **Noted & shall be Complied**
79	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	• **Noted & Complied**
B.2	**OPERATION PHASE:**	
B.2.1	**WATER:**	
80	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	• **Complied** • We have installed Water Meter at the inlet. Logbook is maintained to record the water consumption
81	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.	• **Noted & shall be Complied**
B.2.2	**AIR:**	
82	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.	• **Not Applicable**
83	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.	• **Noted & Complied**
84	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 have installed all the stack in accordance to prescribed condition in our CCA.
85	Flue gas emission & Process gas emission (If any) shall	• **Complied**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>conform to the standards prescribed by the GPCB/ CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.</td><td>• We are complying condition under prescribed limit in our CCA.</td></tr>
<tr><td>86</td><td>All the reactors/ vessels used in the manufacturing process shall be closed to reduce the fugitive emission.</td><td>• Complied
• All vessels and reactor used in manufacturing process are under close loop system with no fugitive emission.</td></tr>
<tr><td>B.2.3</td><td colspan="2">HAZARDOUS/ SOLID WASTE:</td></tr>
<tr><td>87</td><td>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.</td><td>• Complied
• We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes.<table><tr><td>Authorization No.</td><td>AWH-134967</td></tr><tr><td>Validity</td><td>01/03/2029</td></tr></table>• We have provided separate covered storage area for different types of wastes. Photograph of the waste storage area as per below:
• We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro Infrastructure Ltd.
• Copy of the membership certificate is attached as Annexure-3.</td></tr>
<tr><td></td><td colspan="2">  </td></tr>
<tr><td>88</td><td>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.</td><td>• Complied
• We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal.
• Photograph of sludge storage area:</td></tr>
<tr><td></td><td colspan="2">  </td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
	 	
89	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	• **Complied** • We are a member of TSDF & CHWIF site operated by M/s. BEIL Infrastructure Ltd. & M/s. Safe Enviro Infrastructure Ltd. • Copy of the membership certificate is attached as **Annexure-3.**
90	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** • We are complying with rules under Motor Vehicle Act, 1988 for transportation of hazardous waste. • Photograph of Hazardous Waste disposal Tanker:
		
91	The design of the Trucks/ tankers shall be such that there is no spillage during transportation	• **Complied**
92	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/ CHWIF.	• **Complied** • We have explored Nano technology such as Sulphate Extraction System to reduce the quantity of sludge generated from Chlor-alkali plant by 30%. Further we have also installed sludge dryer for drying of sludge.
93	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be	• **Noted & Complied**

Sr. No.	EC Conditions	Compliance Status
	ensured that there is 100% utilization of fly ash to be generated from the unit.	• We are complying the Fly Ash Notification on strictly basis and ensuring that we are utilizing 100% of fly ash. • Current stock of Fly ash is Zero.
B.2.4	**SAFETY:**	
94	The occupier/ manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	• **Complied** • We are complying with the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.
95	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.	• **Complied** • We are complying with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. has been obtained. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities obtained before commissioning of the project. Copy of PLI policy is attached as **Annexure-5.** • Requisite On-site and Off-site Disaster Management Plans prepared and implemented.
96	Main entry and exit shall be separate and clearly marked in the facility .	• **Complied** • We have clearly mark the entry and exit separately in facility
97	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	• **Noted and Complied**
98	Storage of flammable chemicals shall be sufficiently away from the production area.	• **Complied** • We have provided tanks and vessels to store hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS. • Photograph of tank:
	 	
99	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	• **Complied** • Sufficient nos. of Fire extinguishers are provided.
100	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	• **Complied** • All necessary precautionary measures have been taken to avoid any kind of

Sr. No.	EC Conditions	Compliance Status
		accident during storage and handling of toxic/ hazardous chemicals
101	All the toxic/ hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	• **Complied** • All the toxic/ hazardous chemicals stored in optimum quantity and all necessary permissions in this regard obtained before commencing the expansion activities.
102	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	• **Complied** • We have identified the environment protection measures & risks and take mitigate measures accordingly.
103	Only flame proof electrical fittings shall be provided in the plant premises.	• **Complied** • Flame proof electrical fittings are provided in the required plant area.
104	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** • Storage of hazardous chemicals is minimized and stored in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
105	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.	• **Complied** • All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals. Photograph of storage tanks:
	 	
106	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	• **Complied** • Handling and charging of the chemicals are in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
107	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	• **Complied** • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch.
108	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	• **Complied** • We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
109	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	• **Complied** • We have 60 Nos. of first aid boxes at different locations of our plant

Sr. No.	EC Conditions	Compliance Status
		containing required antidote for the chemicals used in the plant.
110	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	• **Complied** • Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. • We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site. • We have made six different sub committees of Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system. • Please find below training calendar:
		
111	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.	• **Complied** • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out. • 100% employees undergo with occupational health surveillance every 6 month/ 12 month depending on exposure. Record is available with Occupational Health Centre. Sample report is attached as **Annexure-6.**
112	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	• **Complied** • We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
113	The company shall implement all preventive and mitigation	• **Complied**

ADITYA BIRLA GRASIM

Monthly Training Calendar

October 2025

Safety

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	External	Emergency Preparedness, Basic Fire Fighting & Practical demonstration ,Enablon training for BBSO, Near miss reporting	10-10-2025	8	30	30	EHS Team
All employees	External	Safety in Chemicals Handling	16-10-2025	4	15	15	EHS Team
All employees	External	PTW, Confined Space, Hot Work, Height Work & HIRA, LOTOTO	28-10-2025	8	30	30	EHS Team
All employees	External	PSM, PSE	23-10-2025	8	30	30	EHS Team

Compliance

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All Mgmt Cadre	Internal	MOC	27-10-2025	1	30	15	Shubham Tanpure
All Mgmt Cadre	Internal	MOC	18-10-2025	1	30	15	Shubham Tanpure
Applicable to all	Internal	Integrated Management System (ISO-9001,14001, 45001 & 50001)-Awareness Training	08-10-2025	2	30	15	Ms. Smita Ramteke

Functional

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	Internal	AI & Excel analytics	YTD	8	30	30	Internal

Behavioural

Cadre	Faculty Type	Training Topic	Date	Training Duration in Hrs	Target Trainees	Target Mandays	Faculty
All employees	Internal	ABG Values & Ethics	14-10-2025	1	30	15	Team HR

ATTENTION PLEASE

Sr. No.	EC Conditions	Compliance Status
	measures suggested in the Risk Assessment Report.	• The company will implement all preventive and mitigation measures suggested in the Risk Assessment Report.
114	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	• **Complied** • Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others are obtained prior to commissioning of the project.
B.2.5	**NOISE:**	
115	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.	• **Complied** • The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. • The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules. Third party ambient noise monitoring is carried out by NABL accredited laboratory. • Noise Monitoring Report is summarized as per below table

Noise Results (Apr 25 to Sept 25)

	Reading dB(A)					
Station	**Day time**			**Night time**		
Range	**MIN**	**MAX**	**AVE**	**MIN**	**MAX**	**AVE**
Nr. Main Security Gate	59.7	65.8	62.75	55.2	60.8	58
Nr. ALCP Plant	62.4	66.3	64.35	59.6	63.7	61.65
Nr. PAC Old Powder Plant	60.4	67.3	63.85	58.1	66.3	62.2
Nr. Cl2 Liquifaction Area	61.4	68.2	64.8	57.6	67.2	62.4
Nr. Cl2 Tonner filling Area	62.5	70.9	66.7	59.3	68.1	63.7
Nr. Cl2 compressor area	66.2	73.5	69.85	62.6	68.6	65.6
Nr VAM Chiller area	63.9	71.9	67.9	61.1	69.6	65.35
Nr Utility compressor area	66.2	71.4	68.8	64.1	68.3	66.2
Nr Compressor Area	66.2	72.5	69.35	63.1	70.1	66.6
Nr HSBP Dryer	67.1	74.6	70.85	64.6	70	67.3

B.2.6	**CLEANER PRODUCTION AND WASTE MINIMISATION:**	
116	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 carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
117	The company shall undertake various waste minimization measures such as :	
118	Metering and control of quantities of active ingredients to minimize waste.	• **Complied** • We have provided flow meters for wastewater generation. • We have installed RO system for reducing the effluent. • Recycle steam and vapor condensate is used in process & cooling tower.

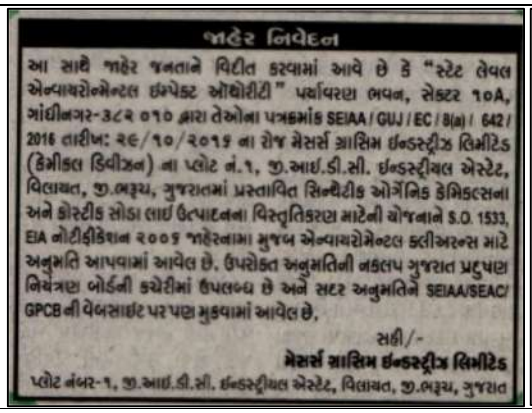
Sr. No.	EC Conditions	Compliance Status
		• We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
119	Reuse of by-products from the process as raw materials or as raw materials substitutes.	• **Complied** • We are using Hydrogen as a clean fuel for producing Caustic Soda flakes & Poly Aluminum Chloride. • Use of waste chlorine gas for producing 32% HCl. • Vapor condensate from flaking plant treated by polishing unit and finally used as DM water. By-product HCl from CPW Plant is used in PAC plant as raw material.
119	Use of automated and close filling to minimize spillages.	• **Complied** • We are using automated and closed filling to minimize spillages.
120	Use of close feed system into batch reactors.	• **Complied** • We are using close feed system into batch reactors.
121	Venting equipment through vapour recovery system.	• **Complied** • We are using venting equipment through vapour recovery system.
122	Use of high pressure hoses for cleaning to reduce wastewater generation.	• **Complied** • High pressure hoses are used for cleaning and reduce the wastewater.
123	Recycling of washes to subsequent batches.	• **Complied**
124	Recycling of steam condensate.	• **Complied** • Recycle steam and vapor condensate is used in process & cooling tower.
126	Sweeping/ mopping of floor instead of floor washing to avoid effluent generation.	• **Complied** • Floors are cleaned through mopping.
127	Regular preventive maintenance for avoiding leakage, spillage etc.	• **Complied** • We are adequately following regular preventive maintenance for avoiding leakage, spillage of any hazardous material in our facility.
B.2.7	**GREEN BELT AND OTHER PLANTATION:**	
128	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.	• **Complied** • We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. • We have already planted about 13727 trees within plant premises. • As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
129	Drip irrigation/ low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	• **Complied** • Drip irrigation/ low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m2 area is covered under drip irrigation & low angle sprinkler system.
130	The PP shall develop greenbelt [40,478 Sq m (21.00%) inside plant premises + 72,843 Sq m (38.00%) at outside the premises in villages named Vilayat, Argama, Ankot, Rahad, Saran and Sarnar. Total 18 Acres (i.e. 72843 m2 area) is developed with approx. 28,000 trees near project site. =	• **Noted & shall be complied**

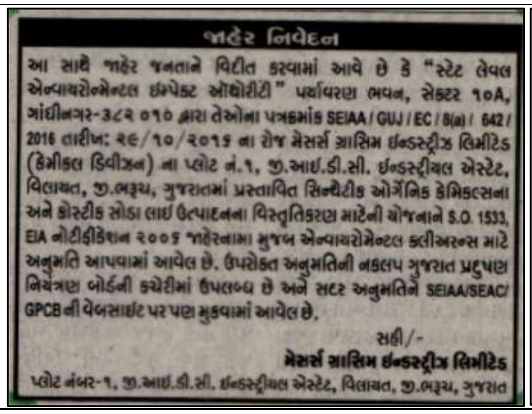
Sr. No.	EC Conditions	Compliance Status
	Total: 113321 Sq. m.) i.e. 59 % of total plot areal as submitted before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	
B.3	**OTHER CONDITION:**	
131	Project Proponent shall provide mechanism/ System for wastewater stream segregation at source and strictly follow up to treatment and final disposal of the same if applicable.	• **Complied** • The treated waste water confirming to the GPCB/ CPCB/ MoEF&CC norms are discharged into GIDC underground pipeline for final disposal to deep sea through GIDC.
132	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.	• **Complied** • We carried out safety and environment audit regularly as per the standards laid down by the GPCB and CPCB.
133	PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety	• **Complied** • We carried out the Internal and Third party safety audit and Risk Assessment Report wherever required such as HAZOP, PSSR etc. as per the prevailing guidelines of safety
134	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.	• **Noted & Complied** • We are complying the Fly Ash Notification on strictly basis and ensuring that we are utilizing 100% of fly ash. • Current stock of Fly ash is Zero.
135	EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures.	• **Complied** • We have developed EMP for Environmental Monitoring and for noise pollution control measures.
136	In EMP proponent should separately indicate majors of occupational health, fire and safety measures.	• **Noted & Complied**
137	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.	• **Noted & Complied**
138	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 & Complied** • We have no discharge in any open drainage we are transferring our effluent to GIDC Dahej and from GIDC it is disposed in deep sea.
139	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.	• **Complied** • We are maintaining record of gate pass and logbook regularly.
140	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 & Complied**
141	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 & Complied**
142	EMP should include STP and detail cost including maintenance, transportation of waste water to CETP / CITIEE etc as well as transportation cost or transit cost.	• **Noted & Complied**
143	In LDAR preventive and predictive maintenance plan.	• **Noted & Complied**
145	In LDAR leakage component, source of equipment leak, detention method should be given in table form.	• **Noted & Complied**

Sr. No.	EC Conditions	Compliance Status
146	In storage component should be shown separately in terms whether inflammable, toxic, corrosive, reactive etc.	• **Noted & Complied**
147	In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100 % utilization should be ensured.	• **Complied**
148	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 installed all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition
149	Project proponent shall display the copy of Environment Clearance at the site prominently.	• **Noted & Complied**
150	Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.	• **Noted & Complied**
151	Project Proponent will have to display the safety procedure in working area	• **Complied**
152	The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.	• **Complied** • Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others are obtained.
153	Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP / TSDF/ CHWIF / CIMEE / Common Spray Dryer as the case may be.	• **Complied** • We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro, Jambusar. • Copy of the membership certificate is attached as **Annexure-3.**
154	Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.	• **Complied** • All necessary precautionary measures have been taken to avoid any kind of accidental blast in boiler, reactor or any machinery in the plant.
155	Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.	• **Complied** • Regular Environment monitoring is carried out through third party every month and its records are maintained. • Requisite On-site and Off-site Disaster Management Plans prepared and implemented.
156	Integrated Regional Office of MoEF&CC, Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.	• **Noted & Complied**
157	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 legal action in the cases of non-compliance.	• **Noted & Complied** • We have 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
158	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 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).	• **Noted & Complied**
159	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-6512o17-lA.lll daled 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities	• **Noted & Complied**

Sr. No.	EC Conditions	Compliance Status
	proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC 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.	
160	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** • Rainwater is recovered from roof tops and stored in a rain water harvesting well. • We have already installed 10 nos. of Rain water harvesting station at nearby villages like, Sachan Village, Saran Village, Saykha Vilalge, Derol, Asmita Vikas Kendra, Rahad Primary school, Ankot Primary school, Smt. M.M.M. Patel vidhyalaya, Pisad primary school, Saladra Primary school. • We are exploring more possibilities for rainwater harvesting in nearby area in consultation with a Geo-hydrology expert.
161	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 & Complied**
162	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.	• **Complied** • Solar landscaping lights are installed for Admin Building and roof mounted solar panels are also installed.
163	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	• **Complied** • We have used area earmarked as green area only for plantation.
164	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 & Complied**
165	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 & Complied** • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
166	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,	• **Complied** • All pollution control systems installed in our plant are directly connected with process safety inter locks from DCS. • For ensure, all the safe requirements meet before any start up. • We are also following pre-start up safety review before restart of the system.
167	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), Government and any statutory authority.	• **Complied** • We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority. • CCA Compliance Report is attached as **Annexure-8.**
168	During material transfer there shall be no spillages and	• **Complied**

<table>
<tr><th>Sr. No.</th><th>EC Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.</td><td>• For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas.</td></tr>
<tr><td>169</td><td>Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.</td><td>• Complied
• We have provided RCC and / acid brick line flooring in the required areas.
• Photograph of RCC flooring:
•  </td></tr>
<tr><td>170</td><td>Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.</td><td>• Complied
• We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.</td></tr>
<tr><td>171</td><td>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.</td><td>• Complied
• All future expansion or modifications in the plant will be carried out after obtaining prior Environment Clearance from the concerned authority.</td></tr>
<tr><td>172</td><td>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, 1981, 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.</td><td>• Complied
• We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</td></tr>
<tr><td>173</td><td>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.</td><td>• Complied
• Socio-economic developmental / community welfare activities are being carried out as per CSR Rules 2014.
• CSR activities is summarized as per below table and the same is attached as Annexure-9</td></tr>
<tr><td>174</td><td>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.</td><td>• Complied
• The company will implement environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.</td></tr>
<tr><td>175</td><td>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.</td><td>• Complied
• Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
• A year wise expenditure on environmental safeguards is also reported.
<table><tr><th colspan="3">Fund Utilized for Environment Management</th></tr><tr><th>Sr. No.</th><th>Particulars</th><th>Value (in Cr)</th></tr></table></td></tr>
</table>

Sr. No.	EC Conditions	Compliance Status
		1 | CTE / CCA Application | 0.15 2 | GPCB sampling & analysis charges | 0.05 3 | Schedule-I Environment Audit | 0.5 4 | Monthly Monitoring by Third party | 0.5 5 | Waste Management | 12 6 | Green Belt Development | 0.5
176	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 SEIAA/ 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.	• **Complied** • We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. Name of Paper: Times of India Date of Issue: 06.11.2016 In: English language Name of Paper: Gujarati Samachar Date of Issue: 07.11.2016 In: Gujarati language
	 જાહેર નિવેદન આ સાથે જાહેર જનતાને વિદીત કરવામાં આવે છે કે "સ્ટેટ લેવલ એન્વાયરોન્મેન્ટલ ઇમ્પેક્ટ ઓથોરીટી" પર્યાવરણ ભવન, સેક્ટર ૧૦A, ગાંધીનગર-૩૮૨ ૦૧૦ દ્વારા તેઓના પત્રકમાંક SEIAA/GUJ/EC/8(a)/ 642/ 2016 તારીખ: ૨૯/૧૦/૨૦૧૬ ના રોજ મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીઝ લિમીટેડ (કેમીકલ ડિવીઝન) ના પ્લોટ નં.૧, જી.આઇ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાતમાં પ્રસ્તાવિત સિન્થેટીક ઓર્ગેનિક કેમિકલ્સના અને કોસ્ટીક સોડા લાઇ ઉત્પાદનના વિસ્તૃતિકરણ માટેની યોજનાને S.O. 1533, EIA નોટીફીકેશન ૨૦૦૬ જાહેરનામા મુજબ એન્વાયરોમેન્ટલ ક્લીઅરન્સ માટે અનુમતિ આપવામાં આવેલ છે. ઉપરોકત અનુમતિની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે અને સદર અનુમતિને SEIAA/SEAC/ GPCB ની વેબસાઇટ પર પણ મુકવામાં આવેલ છે. સહી/- મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીઝ લિમીટેડ પ્લોટ નંબર-૧, જી.આઇ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાત  PUBLIC NOTICE This is to inform public at large that the State Level Environment Impact Assessment Authority, Paryavaran Bhuvan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/GUJ/EC/8(a)/642/2016, Dated 29/10/2016 has accorded Environmental Clearance to M/s. Grasim Industries Ltd. (Chemical Division) for the proposed expansion of Synthetic Organic Chemical and Caustic Soda Lye plant at Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat as per applicable provisions of the S.O 1533, EIA Notification 2006. Copies of the clearance letters are available with the Gujarat Poilution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB. Sd/- M/s. Grasim Industries Ltd., Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat.	
177	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 1st December of each calendar year.	• **Noted & Complied** • We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
178	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	• **Noted** • The data submitting herewith are factual and are not false / fabricated.
179	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• **Noted & Complied** • We are complying all the conditions stipulated by the Gujarat Pollution Control Board.
180	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	• **Noted** • We have been complying the conditions issued by the SEIAA. • No suspension order issued by the SEIAA till date.
181	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional	• **Noted & Complied**

Sr. No.	EC Conditions	Compliance Status
	conditions, if the same is found necessary.	
182	This environmental clearance is valid for Ten years from the date of issue.	• **Noted**
183	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.	• **Complied** • There is no appeal against this environmental clearance lie with the National Green Tribunal.
184	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** • The data submitting which is material to screening or scoping or appraisal or decision on the application are factual and are not false.
B4	**COMPLIANCE OF ENVIRONMENTAL CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:**	
185	Project proponent shall submit Certified Compliance Report of IRO, Gandhinagar for Existing EC obtained Within 10 days.	• **Noted & Complied**
186	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.	• **Complied** • We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. Name of Paper: Times of India Date of Issue: 06.11.2016 In: English language Name of Paper: Gujarati Samachar Date of Issue: 07.11.2016 • In: Gujarati language
	 જાહેર નિવેદન આ સાથે જાહેર જનતાને વિદીત કરવામાં આવે છે કે "સ્ટેટ લેવલ એન્વાયરોન્મેન્ટલ ઈમ્પેક્ટ ઓથોરીટી" પર્યાવરણ ભવન, સેક્ટર ૧૦A, ગાંધીનગર-૩૮૨ ૦૧૦ દ્વારા તેઓના પત્રકમાંક SEIAA/GUJ/EC/8(a)/ 642/ 2016 તારીખ: ૨૯/૧૦/૨૦૧૬ ના રોજ મેસર્સ ગ્રાસિમ ઈન્ડસ્ટ્રીઝ લિમીટેડ (કેમીકલ ડિવીઝન) ના પ્લોટ નં.૧, જી.આઈ.ડી.સી. ઈન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાતમાં પ્રસ્તાવિત સિન્થેટીક ઓર્ગેનિક કેમિકલ્સના અને કોસ્ટીક સોડા લાઈ ઉત્પાદનના વિસ્તૃતિકરણ માટેની યોજનાને S.O. 1533, EIA નોટીફીકેશન ૨૦૦૬ જાહેરનામા મુજબ એન્વાયરોમેન્ટલ ક્લીઅરન્સ માટે અનુમતિ આપવામાં આવેલ છે. ઉપરોકત અનુમતિની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે અને સદર અનુમતિને SEIAA/SEAC/ GPCB ની વેબસાઈટ પર પણ મુકવામાં આવેલ છે. સહી/- મેસર્સ ગ્રાસિમ ઈન્ડસ્ટ્રીઝ લિમીટેડ પ્લોટ નંબર-૧, જી.આઈ.ડી.સી. ઈન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાત  PUBLIC NOTICE This is to inform public at large that the State Level Environment Impact Assessment Authority, Paryavaran Bhavan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/GUJ/EC/8(a)/642/2016, Dated 29/10/2016 has accorded Environmental Clearance to M/s. Grasim Industries Ltd. (Chemical Division) for the proposed expansion of Synthetic Organic Chemical and Caustic Soda Lye plant at Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat as per applicable provisions of the S.O 1533, EIA Notification 2006. Copies of the clearance letters are available with the Gujarat Pollution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB. Sd/- M/s. Grasim Industries Ltd., Plot No.-1, GIDC Industrial Estate, Vilayat, Dist.- Bharuch, Gujarat.	
187	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 & Complied**
188	Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.	• **Noted & Complied**
189	The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and the facilities, for verification of compliances of environment clearance conditions.	• **Noted & Complied**
190	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	• **Noted & Complied**

Sr. No.	EC Conditions	Compliance Status
	keep in abeyance, the Environment Clearance accorded.	
191	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.	• **Noted & Complied**

R.G. SHAH
MEMBER SECRETARY
SEIAA (GUJARAT)

Government of Gujarat

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/ /2011 **Date:**

Time Limit

Sub: Environment Clearance for the proposed Expansion : Putting Chlor-alkali unit with value added products (as a backward integration of VSF plant) along with expansion of captive power plant from 25 MW to 85 MW at located at Plot No. 1, GIDC Industrial Estate, Vilayat - 392 140, Tal. Vagra, Dist. Bharuch by M/s. Grasim Cellulosic (A Unit of Grasim Industries Ltd.)…… in Category 1(d), 4(d) & 5(f) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir,

This has reference to your application in Application Form-I along with Pre - feasibility Report , EIA Report and Copy of MoU between the coal supplier and the company submitted vide letter dated 02/04/2011 submitted to the SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance for **Expansion : Putting Chlor-alkali unit with value added products (as a backward integration of VSF plant) along with expansion of captive power plant from 25 MW to 85 MW at located at Plot No. 1, GIDC Industrial Estate, Vilayat - 392 140, Tal. Vagra, Dist. Bharuch by M/s. Grasim Cellulosic (A Unit of Grasim Industries Ltd.).** M/s. Grasim Cellulosic obtained environmental clearance in the year 2008 for manufacturing of VSF, CS2, Sulphuric Acid, Sodium Sulphate and captive power at Vilayat Vagra. In addition to above products, it is now proposed to expand the project by putting Chlor-alkali unit as a backward integration to Viscose Staple Fibre (VSF) with forward integration chlorine products. The proposal also includes expansion of power plant from 25 MW to 85 MW. Bipolar Membrane Cell technology shall be adopted for the Chlor-alkali unit. The applicant has applied for Expansion following Product.

Product :

Sr. No.	Product	Capacity
1	Caustic Soda Lye	219000 TPA (600 TPD)
2	Liquid Chlorine / Hydrochloric Acid	197100 TPA (540 TPD)
3	Hydrogen	61320000 Nm3/Year (168000 Nm3/day)
4	Chlorosulphonic Acid	73000 TPA (200 TPD)
5	Sulphuric Acid	36500 TPA (100 TPD)
6	Carbon Disulphide	31025 TPA (85 TPD)
7	Liquid Poly Aluminium Chloride	146000 TPA (400 TPD)
8	Staple Bleaching Powder	36500 TPA (100 TPD)
9	Chlorinated Paraffin	36500 TPA (100 TPD)
10	Aluminium Chloride	14600 TPA (40 TPD)
11	Power Generation	60 MW

The project activity is covered in 1(d), 4(d) & 5(f) and is of 'B' Category. Since the unit is located in the notified industrial estate, it does not need Public Consultation as per Para 7(i) III. Stage (3) (b) – Public Consultation of EIA Notification, 2006.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned products. The proposal was considered by SEIAA, Gujarat in its meeting held on 12.05.2011 at Gandhinagar. Since the EIA Report was found to be adequate and complete and the public consultation is not required for the project, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following Specific and General conditions.:

A. SPECIFIC CONDITIONS:

1. The unit shall obtain requisite permission from PESO, Nagpur for storage of chlorine, hydrogen etc. before commissioning of the project.

A.1 WATER:

2. No ground water shall be used for the project. Entire water requirement of 35000 KLD after the proposed expansion shall be met through the GIDC water supply only.
3. The industrial effluent generation from the project shall not exceed 25600 KLD after the proposed expansion.
4. The industrial effluent shall be treated in the ETP consisting of Zinc Clarifier Tanks (3 no.), Grit Chambers (3 no.), Primary Clarifier (2 no.), Equalization Tank, Biological Reactor, Final Clarifiers (2 no.), Thickeners (2 no.), Belt Press (2 no.) and Sludge Dryers (6 no.) etc. The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the ETP outlet.
5. The treated waste water conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal into the deep sea.
6. A Guard / Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain. The unit shall provide on line pH meter, TDS meter & TOC meter for online monitoring of the treated effluent.
7. The domestic wastewater generation shall not exceed 800 KLD after the proposed expansion.
8. The domestic wastewater shall be treated in the adequate STP. The STP shall be operated regularly and efficiently so as to achieve the GPCB norms at the STP outlet.
9. The treated domestic wastewater conforming to the GPCB norms shall be utilized for gardening / plantation within premises. However during the rainy season, it shall be transferred to the ETP for its discharge into the GIDC underground drain.
10. The unit shall provide metering facility at the inlets and outlets of the ETP & STP and maintain the records of the same.
11. Proper logbooks of ETP & STP operation and also showing the quantity of effluent generated, discharged into GIDC underground drain, utilized for plantation / gardening etc. shall be maintained and furnished to the GPCB from time to time.
12. Regular performance evaluation of the ETP & STP shall be undertaken every year to check its adequacy, through credible institutes like L.D. College of Engineering, NPC or such other institutes of similar repute, and its records shall be maintained.
13. 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.
14. 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 GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.

A.2 AIR:

15. Process emission shall be controlled with the air pollution control equipments (APCE) as mentioned below.
    a. Poly Aluminium Chloride Plant - Water scrubber for absorption of HCl vapor
    b. Caustic Soda Plant - Water scrubber having bubble cap tray system for absorption of HCl

vapour & three tower systems with alkali scrubber for absorption of unreacted chlorine to produce sodium hypochlorite.

c. Bleaching Powder Plant, Aluminium Chloride Plant and Chlorinated Paraffin Plant – Alkali scrubbers of absorption of Cl2 emission.
d. Sulphuric Acid Plant – DCDA system in manufacturing and scrubbing system.
e. Chlorosulphonic Acid Plant – Acid scrubber for absorption of SO3 emission.

16. The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets. Adequate stack height as per prevailing norms shall be provided for the process emissions.
17. Natural gas shall be used as a raw material in the CS2 plant. Thus, there shall be no CS2 & H2S emission from the CS2 Plant.
18. Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 60 MW Power Plant. Stack of 175 meter height shall be provided for the proposed power plant.
19. High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the power plant. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified norms or boiler shall shut down totally.
20. There shall be one extra field in the ESP to ensure that even though one field goes out of order, the prescribed standard of PM is met with. In case of failure of two or more fields of the ESP, the unit shall immediately shut down the power plant.
21. Online monitoring system shall be installed to monitor at least SOx & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.
22. The company shall prepare schedule, carry regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.
23. Adequate air pollution control systems shall be provided as proposed for control of fugitive emission viz. water sprinklers at all coal transfer points and truck unloading points, dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc.
24. 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).
25. Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy, through credible institutes like L.D. College of Engineering, NPC or other such other institutes of similar repute, and its records shall be maintained.
26. Regular monitoring of ground level concentration of CS2, H2S, SO2, NOx, Cl2, HCl, PM10 and PM2.5 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 Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.

A.3 HAZARDOUS /SOLID WASTE:

27. The company must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handing and Transboundary Movement) Rules 2008, as may be amended from time to time. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
28. The hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
29. The unit shall dispose its ETP sludge, brine / process sludge, spent resin, spent catalyst and spent

carbon at the nearest common TSDF. The unit shall obtain membership of the nearest common TSDF for disposal of the aforesaid solid wastes.

30. Discarded containers / barrels / bags / liners shall be either reused or sold only to the authorized recyclers after decontamination.
31. Used oil shall be sold only to the registered recyclers.
32. Fly ash shall be handled in dry state and handling of the fly ash shall be done through a closed pneumatic system.
33. At least seven days storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed for storage of fly ash.
34. The ash shall be supplied to the manufacturers of ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under the E.P.Act and it shall be ensured that there is 100% utilization of ash to be generated from the unit.

A.4 SAFETY:

35. Provisions of the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1986 & Factories Act, 1948 shall be strictly complied with.
36. A well designed fire hydrant system shall be installed as per the prevailing standards.
37. All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.
38. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals, especially chlorine, hydrogen, CS2, HCl etc.
39. Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risk generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank for safety purpose.
40. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
41. 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. Close handling system for chemicals shall be provided.
42. Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check up of the workers and keeping its record etc.
43. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
44. First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
45. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
46. 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.
47. Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
48. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.

A.5 NOISE:

49. To minimize the noise pollution the following noise control measures shall be implemented:
    - ✓ Selection of any new plant equipment shall be made with specification of low noise levels.
    - ✓ Manufacturers / suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national / international regulatory norms with respect to noise generation for individual units

- ✓ Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.
- ✓ Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.
- ✓ Employees shall be provided with ear protection measures like earplugs or earmuffs.
- ✓ Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.
- ✓ Construction equipment generating minimum noise and vibration shall be chosen.
- ✓ Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.
- ✓ Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.
- ✓ Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
- ✓ Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.
- ✓ Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.

50. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

A.6 ENERGY CONSERVATION :

51. The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.
52. The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented.
53. The project proponent shall implement the application of solar energy which shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating systems.
54. The transformers and motors shall have minimum efficiency of 85 %.
55. Variable frequency drives shall be installed.
56. Energy conservation measures shall include use of electronic lighting system, use of CFL tubes to minimize energy use, use of programmable timers for pumping system and lighting, water level controllers for water pumps, centralized cooling etc.
57. Energy saving practices as follows shall be practiced:-
    - ➢ Constant monitoring of energy consumption and defining targets for energy conservation.
    - ➢ Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level.
    - ➢ Use of solar cells for lighting.
    - ➢ Use of solar water heater for canteen & washing area.
    - ➢ Proper load factor shall be maintained by the unit.
    - ➢ Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting.
    - ➢ Use of electronic ballast to save energy.
    - ➢ Automatic switching system for lighting & water tank pumping shall be used.
    - ➢ To the maximum extent possible and technically feasible, energy efficient equipment like motors, pumps, air conditioning systems shall be selected.
    - ➢ Gravity flow shall be preferred wherever possible to save pumping energy.
    - ➢ Promoting awareness on energy conservation.
    - ➢ Training to the staff on methods of energy conservation and to be vigilant for this.

A.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

58. 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.
59. The company shall undertake following waste minimization measures:
    a) Metering and control of quantities of active ingredients to minimize waste.
    b) Reuse of by-products from the process as raw materials or raw materials substitutes in other process.
    c) Use of automated and enclosed filling to minimize spillages.
    d) Use of close feed system into batch reactors.
    e) Dry cleaning / mopping of floor instead of floor washing
    f) Use of high pressure hoses for cleaning to reduce wastewater generation
    g) Regular preventive maintenance for avoiding leakage, spillage etc.

A.7 GREEN BELT AND OTHER PLANTATION:

60. 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 the GIDC estate, nearby schools, gram panchayat areas and any other open areas in consultation with the GIDC / local bodies / GPCB and submit an action plan of plantation for next three years to the GPCB.
61. Minimum of 15000 trees shall be planted every year up to five years and budget of Rs. 10 lacs per annum shall be earmarked for the green belt development, as committed by the project proponent.
62. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development.

B. GENERAL CONDITIONS:

63. 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.
64. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.
65. A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.
66. The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.
67. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
68. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
69. All the recommendations made in the EIA/EMP submitted by the project proponent shall be strictly implemented.
70. The applicant 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 of the environmental protection and management.
71. No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF/ SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/ SEIAA/ SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
72. 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.

73. 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 SEIAA/ 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.
74. 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 hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
75. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
76. 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.
77. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
78. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, 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.
79. This Environmental Clearance is valid for five years from the date of issue.

With regards,

Yours sincerely,

(R.G.SHAH)
Member Secretary

Issued to:
M/s. Grasim Industries Limited (Unit : Grasim Cellulosic),
P.O. Birladham, Nagda – 456 331,
Dist. Ujjain (M.P.).

Copy to:-

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat, Secretariat, Gandhinagar-382010.
2. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010.
6. Select File.

(R.G.SHAH)
Member Secretary

R. G. SHAH
MEMBER SECRETARY
SEIAA (GUJARAT)

Government of Gujarat

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/ /2012 **Date:**

Amendment to Environment Clearance Order No:-

(Under the provision of Environmental Impact Assessment (ElA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (ElA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to Grasim Cellulosic (A Unit of Grasim Industries Ltd.) for expansion by putting Chlor-alkali unit with value added products (as a backward integration of VSF plant) along with expansion of captive power plant from 25 MW to 85 MW**,** vide order no. SEIAA / GUJ / EC / 1(d), 4(d) & 5(f) / 96 / 2011 dated 30-05-2011**,** is being subjected to amendment for the following condition only.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA / GUJ / EC / 1(d), 4(d) & 5(f) / 96 / 2011 dated 30-05-2011**,** under the provisions of the aforesaid Notification.

And whereas SEIAA has received recommendation from SEAC**,** for the amendment of Environment Clearance of this SEIAA under the provision of the aforesaid Notification. The proposal was considered by SEIAA, Gujarat in its meeting held on 15.03.2012 at Gandhinagar. Environment Clearance is hereby amended as under, subjected to amendment for the following condition only.

The Environment Clearance order no. SEIAA / GUJ / EC / 1(d), 4(d) & 5(f) / 96 / 2011 dated 30-05-2011 shall be read henceforth as under.

1. In the second paragraph, increase in power generation shall be read as **"25 MW to 96 MW"** instead of "25 MW to 85 MW".
2. In the Table of Products, at serial number 11, Power Generation shall be read as "**96 MW [Total Capacity After Expansion]"** instead of 60 MW.
3. The condition no. 18 shall be amended as below :

   18. Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 96 MW Power Plant. Two stacks, each of 125 meter height shall be provided for the proposed power plant.

The other conditions of the Environment Clearance order no. SEIAA / GUJ / EC / 1(d), 4(d) & 5(f) / 96 / 2011 dated 30-05-2011 shall remain unchanged.

The Environment Clearance is subject to the conditions as may be specified in the rules from time to time under the Environmental Impact Assessment (ElA) Notification, 2006 and Environment

(Protection) Rules, 1986.

With regards,

Yours sincerely,

(R.G.SHAH)
Member Secretary

Issued to:

Mr. S. S. Maru, Sr. Executive President,
Grasim Industries Limited (Unit : Grasim Cellulosic),
P.O. Birladham, Nagda – 456 331,
Dist. Ujjain (M.P.)

Copy to:-

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat, Secretariat, Gandhinagar-382010.
2. The Chairman, CPCB , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010.
6. Select File.

(R.G.SHAH)
Member Secretary

R. G. SHAH
MEMBER SECRETARY
SEIAA (GUJARAT)

Government of Gujarat

STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/ /2012 **Date:**

Amendment to Environment Clearance Order No:-

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3. The condition no. 18 shall be amended as below :

   18. Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 96 MW Power Plant. Two stacks, each of 125 meter height shall be provided for the proposed power plant.

The other conditions of the Environment Clearance order no. SEIAA / GUJ / EC / 1(d), 4(d) & 5(f) / 96 / 2011 dated 30-05-2011 shall remain unchanged.

The Environment Clearance is subject to the conditions as may be specified in the rules from time to time under the Environmental Impact Assessment (EIA) Notification, 2006 and Environment

(Protection) Rules, 1986.

With regards,

Yours sincerely,

(R.G.SHAH)
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Issued to:

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5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010.
6. Select File.

(R.G.SHAH)
Member Secretary

N.K. PATEL
MEMBER SECRETARY
SEIAA (GUJARAT)

Government of Gujarat

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

No. SEIAA/GUJ/EC/5(f)/ /2014 **Date:**

Time Limit

Sub: Environment Clearance for - M/s. Grasim Cellulosic (A Unit of Grasim Industries Ltd.) located at Plot No. 1, GIDC Industrial Estate, Vilayat - 392 140, Tal. Vagra, Dist. Bharuch.....,….. in Category 5 (f) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir,

This has reference to your application along with Form-I vide letter dated 21/09/2012, additional information / documents vide letter dated 07/07/2014 submitted to the SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance for - **M/s. Grasim Cellulosic (A Unit of Grasim Industries Ltd.) located at Plot No. 1, GIDC Industrial Estate, Vilayat - 392 140, Tal. Vagra, Dist. Bharuch.** Grasim Cellulosic is proposing to manufacture the following products as a forward integration to their existing Chlor-alkali plant, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:

Sr No	Name of Product	Quantity (MT/Month)	
		Product	By-Product
Chloromethanes			
1	Methyl Chloride	Produced as 1st step of manufacturing of all other product	
2	Methylene Chloride (50 % to 80 % of total production)	4500	--
3	Chloroform (15% to 40 % of total production)		
4	Carbon Tetra Chloride (5 % to 10 % of total production)		
5	Hydrochloric Acid	--	2250
FATTY ALCOHOLS			
A) FATTY ALCOHOLMANUFACTURING PLANT			
6	Fatty Alcohol	2700	--
7	Crude Alcohol Refining (Light)	--	25
8	Crude Alcohol Refining (Heavies)	--	144
B) FATTY ALCOHOL FRACTINATION PLANT			
9	Fractionated Fatty Alcohol – Light Cut Alcohol	541	5
10	Fractionated Fatty Alcohol – Middle Cut Alcohol	199	
11	Fractionated Fatty Alcohol - Light	13	

As the proposed project is situated in the notified industrial estate, it falls in Category B as per the schedule of the EIA Notification-2006.

The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in the notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project. The proposal was considered by SEIAA, Gujarat in its meeting held on 28.07.2014 at Ahmedabad. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.1 CONDITIONS WITH WHICH ENVIRONMENT CLEARANCE IS GRANTED :

A. 1.1 WATER:

1. Fresh water requirement for Chloromethanes and Fatty Alcohol Plants shall not exceed 553 KL/day and it shall be met only through GIDC water supply only. Metering of water shall be done and its records shall be maintained. No ground water shall be used for the project.

2. Cooling tower blow down to the tune of 275 KL/day and 20 KL/day of waste water from VRC Unit & Heat Recovery Unit shall be treated by RO system. RO reject to the tune of 88 KL/day shall be treated in the ETP whereas RO permeate to the tune of 207 KL/day shall be reused back in process plants.
3. Industrial effluent generated from process of Fatty Alcohols - 25 KL/day & Chloromethane (Hydro Chlorination & Photo Chlorination) - 60 KL/day, VRC Unit & Heat Recovery Unit - 30 KL/day, RO reject - 88 KL/day and safety showers - 4.5 KL/day; hence total 207.5 KL/day shall be treated in the ETP consisting of primary, secondary and tertiary treatment facilities.
4. Domestic wastewater generation shall be 12.5 KL/day and it shall be treated in the ETP along with the industrial wastewater.
5. The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the ETP outlet.
6. The treated waste water conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal in deep sea.
7. A Guard / Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain.
8. Online monitoring system shall be provided at final outlet of the ETP for pH, TDS & TOC parameters and arrangement shall be made to reflect monitored data on server of the company, which can be accessed by the GPCB on real time basis. The unit shall also provide metering facility at the inlets and outlets of the ETP and maintain the records of the same.
9. Proper logbooks of ETP operation and also showing the quantity of effluent generated, discharged into GIDC underground drain, utilized for plantation / gardening etc. shall be maintained and furnished to the GPCB from time to time.
10. Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through credible institute and its records shall be maintained.
11. 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 GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.

A.1.2 AIR :

12. Hydrogen gas shall be used as a fuel in Volatile Reduction Chamber (VRC) whereas HSD shall be used as a fuel in the D.G. Set of 750 KVA proposed for new plants.
13. Process emission shall be controlled with the air pollution control equipments (APCE) as mentioned below.
    a. Hydro Chlorinator of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
    b. Crude CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
    c. Heavies CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
    d. Volatile Reduction Chamber (VRC) of Chloromethanes Plant – Water and Caustic Scrubber for control of NOx, HCl & Cl_2.
    e. Methanol Column DT 111 of Fatty Alcohol Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
    f. Crude Alcohol Let Down Drum S1301 of Fatty Alcohol Plant – Water Seal and Flame Arrester for control of VOC.
    g. Product Alcohol Let Down Drum S1301 of Fatty Alcohol Plant – Water Seal and Flame Arrester for control of VOC.
14. In Chloromethanes Plant, all vents after guard condenser shall be directed to Volatile Reduction Chamber (VRC) Unit, where gases shall be incinerated. Water Scrubber followed by Caustic Scrubber shall pro provided for control of emission from VRC.
15. The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets. Adequate stack height as per prevailing norms shall be provided for process and flue gas emissions.
16. Online monitoring system shall be installed on VRC stack to monitor HCl, Cl_2 & NOx concentrations and arrangement shall be made to reflect monitored data on server of the company, which can be accessed by the GPCB on real time basis
17. The fugitive emission in the work area 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).
18. Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy, through credible institute and its records shall be maintained.
19. Regular monitoring of ground level concentration of CS_2, H_2S, SO_2, NOx, Cl_2, HCl, PM_{10} and $PM_{2.5}$ 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 Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits,

necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.

A.1.3 HAZARDOUS / SOLID WASTE :

20. The company must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handing and Transboundary Movement) Rules 2008, as may be amended from time to time. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
21. The hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
22. The unit shall dispose ETP sludge and Spent Carbon from Chloromethanes and Fatty Alcohol Plants at the nearest common TSDF.
23. Exhausted Resin and Spent Catalyst shall be sent back for regeneration or reactivation.
24. Used oil shall be sold only to the registered recyclers.
25. Discarded containers / barrels / bags / liners shall be either reused or sold only to the authorized recyclers after decontamination.
26. Exhausted Batteries of UPS shall be managed as per the provisions of the Batteries (Management and Handling) Rules, 2001 as amended in 2010.
27. E-Waste from Plant Electronic system shall be managed as per the provisions of the E-waste Management and Handling Rules 2011.
28. Exhausted Insulating Materials shall be sold to authorized recyclers.

A1..4 SAFETY:

29. Provisions of the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1986 & Factories Act, 1948 shall be strictly complied with.
30. A well designed fire hydrant system shall be installed as per the prevailing standards.
31. All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.
32. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals, especially chlorine, hydrogen, HCl etc.
33. Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risk generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank for safety purpose.
34. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
35. 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. Close handling system for chemicals shall be provided.
36. Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check up of the workers and keeping its record etc.
37. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
38. First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
39. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
40. 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.
41. Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
42. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.

A.1.5 NOISE:

43. 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.

A.1.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

44. 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.
45. The company shall undertake following waste minimization measures:
    a) Metering and control of quantities of active ingredients to minimize waste.
    b) Reuse of by-products from the process as raw materials or raw materials substitutes in other process.
    c) Use of automated and enclosed filling to minimize spillages.

d) Use of close feed system into batch reactors.
e) Dry cleaning / mopping of floor instead of floor washing
f) Use of high pressure hoses for cleaning to reduce wastewater generation
g) Regular preventive maintenance for avoiding leakage, spillage e.

A.1.7 GREEN BELT AND OTHER PLANTATION:

46. The unit shall develop and maintain green belt within premises as per the CPCB guidelines. In addition to this, the unit shall also take up adequate plantation at suitable open land on road sides and other open areas within the Nandesari Industrial Area or in nearby locality or schools in consultation with the GIDC / Gram Panchayat / GPCB and submit an action plan of plantation for next three years to the GPCB.
47. Total 48000 nos. of trees shall be planted within the premises within next five years in addition to the existing 6113 nos. of trees & shrubs.
48. Drip irrigation system shall be used for the green belt development.

B.OTHER CONDITIONS:

49. 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.
50. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.
51. A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.
52. The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.
53. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
54. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
55. The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards recommended in the EIA / EMP report as well as other proposals made by them.
56. The company shall undertake socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.
57. 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 of the environmental protection and management.
58. 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.
59. 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.
60. 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 SEIAA/ 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.
61. 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 hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
62. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
63. 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.
64. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
65. 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. 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, 1981, 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.
66. This environmental clearance is valid for five years from the date of issue.
67. 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.

With regards,
Yours sincerely,

(N.K. PATEL)
Member Secretary

Issued to:

Mr. K. C. Jhanwar, Group Executive President,
Grasim Industries Limited – Chemical Division,
P.O. Birladham, Nagda – 456 331,
Dist. Ujjain (M.P.).

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File

(N.K. PATEL)
Member Secretary

G. J. DAVE
MEMBER SECRETARY
SEIAA (GUJARAT)

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/5(f)&4(d)/642/2016

Date: 29 OCT 2016 By R P A D

Time Limit

Sub: Environment Clearance to M/s. Grasim Industries Ltd. for setting up of the proposed expansion of manufacturing of Caustic Soda Lye plant and Synthetic organic chemical plant located at Plot No:1, GIDC Industrial Estate, Vilayat, Dist.: Bharuch..... In Category 5(f)&4(d) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND2/12124/2015 and File No. SIA/GJ/70505/2016.

Dear Sir,

This has reference to your application along with EIA Report dated **19/05/2016** submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006 and additional information / documents submitted vide letter dated **31/08/2016** to the SEAC.

The proposal is for Environmental Clearance to **M/s. Grasim Industries Ltd. for setting up of the proposed expansion of manufacturing of Caustic Soda Lye plant and Synthetic organic chemical plant located at Plot No:1, GIDC Industrial Estate, Vilayat, Dist.: Bharuch.** It is an existing unit for manufacturing following products, which falls in the category - 5(f)&4(d) of the schedule of the EIA Notification-2006:

Sr. No.	Name of Product	Production Capacity (MT/Annum)		
		Existing	Proposed	Total
1	Chlorinated Paraffin Wax	36500	33500	70000
2	Caustic Soda Lye	219000	146000	365000
3	Poly Aluminum Chloride	146000	104000	250000
4	Aluminum Chloride	14600	10400	25000
5	Stable Bleaching Powder	36500	24500	61000
6	Hydrogen	61320000 (Nm^3)	40880000 (Nm^3)	102200000 (Nm^3)
7	Liquid Chlorine / Sodium Hypochlorite Hydrochloric Acid	197100	131400	328500

The project activity is covered in 5(f)&4(d) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated **18/10/2016** had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on **07/09/2016**. The proposal was considered by SEIAA, Gujarat in its meeting held on **29/10/2016** at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A. CONDITIONS :

A. 1 SPECIFIC CONDITION :

1. The unit shall obtain requisite permission from PESO, Nagpur for storage of chlorine, hydrogen etc. before commissioning of the project.

A. 2 WATER :

2. Total water requirement after proposed expansion shall not exceed 6500 KL/day for the Synthetic Organic Chemicals and Caustic Lye plant. Unit shall recycle/reuse 400 KL/day of waste water within Synthetic Organic Chemicals and Caustic Lye plants. Hence, fresh water requirement shall not exceed 6100 KL/day. Fresh water shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.
3. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
4. Total industrial waste water generation from Synthetic Organic Chemicals and Caustic Lye plant shall not exceed 600 KL/day.
5. Unit shall treat the additional effluent in their existing ETP having capacity 35 MLD comprises of primary & secondary treatment plants.

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"Paryavaran Bhawan"
Sector-10-A, Gandhinagar-10

6. Total quantity waste water discharge of the group companies (i.e. Chemical division + Cellulosic division + Epoxy division) shall not exceeds 19.4 MLD at any time. The treated waste water conforming to the GPCB/CPCB/MoEF&CC norms shall be discharged into the GIDC underground drain for its final disposal into the deep sea.
7. A Guard / Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain. The unit shall provide on line pH meter, TDS meter & TOC meter for online monitoring of the treated effluent.
8. Additional domestic waste water (40 KL/day) shall be treated in existing STP (Capacity 140 m3/day)and treated sewage shall be used for gardening-plantation within premises.
9. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, treated sewage (40 KL/day) shall be stored in guard pond / polishing pond within premises. This additional treated sewage (40 KL/day) shall not be discharged in any case.
10. The unit shall provide adequate effluent treatment plant (ETP) & STP and it shall be operated regularly and efficiently so as to achieve desired norms prescribed by MoEF&CC/CPCB/GPCB.
11. A separate electric meter shall be placed for the ETP & STP system. Proper logbook of ETP & evaporator operations also showing chemicals consumed, treated water reused, power consumed etc. shall be maintained and furnished to the GPCB from time to time.
12. Regular performance evaluation of the ETP & STP shall be undertaken every year to check its adequacy, through credible institutes of National repute and its records shall be maintained.
13. 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.
14. 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 GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.

A. 3 AIR:

15. The excess steam requirement (100 MT/day) shall be met by generating the same with clean fuel i.e. Hydrogen at the rate of 30000 Nm3 per day in a 10 ton/hour and 10 kg/cm2 capacity of hydrogen boiler.
16. Process emission shall be controlled with the air pollution control equipments (APCE) as mentioned below.
    a. Sodium Hypo stack of Caustic Plant- Alkali scrubber for control of Cl2.
    b. HCl stack-1 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.
    c. HCl stack-2 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.
    d. Poly Aluminum Chloride Liquid – Water scrubber system for control of HCl & Cl2.
    e. Poly Aluminum Chloride Powder – 3 stage Water scrubber system for control of HCl & Cl2.
    f. Chlorinated paraffin Plant – Alkali Scrubbing system for control of HCl & Cl2.
    g. Aluminium Chloride - Alkali Scrubbing system for control of HCl & Cl2.
    h. Staple Bleaching Powder - Alkali Scrubbing system for control of HCl & Cl2.
17. The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB/CPCB/MoEF&CC at stack outlets. Adequate stack height as per prevailing norms shall be provided for the process emissions. At no time, emission level should go beyond the stipulated standards.
18. Online monitoring system shall be installed to monitor at least SOx & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.
19. Adequate air pollution control systems shall be provided as proposed for control of fugitive emission viz. water sprinklers at all coal transfer points and truck unloading points, dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc.
20. 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).
21. Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy, through credible institutes of national repute, and its records shall be maintained.
22. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, Cl2, HCl & VOC 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 Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.
23. The air pollution control systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB/CPCB/MoEF&CC at vent / stack outlets.
24. Fugitive emissions of VOC's must be regularly monitored. Sensors for detecting VOC's shall be provided at strategic locations. Leak Detection and Repair (LDAR) programme shall be implemented to control VOC emissions.
25. All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

A. 4 SOLID / HAZARDOUS WASTE:

26. 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,

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Gujarat Pollution Control Board
"Paryavaran Bhavan"
Sector-10-A, Gandhinagar-382 010

as may be amended from time to time. Authorization of the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.

27. 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.
28. ETP waste, Brine/ process Sludge, Spent Resin & Spent carbon from filters will be disposed off at the nearby common TSDF.
29. Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination.
30. Used oil shall be sold only to the registered recyclers.
31. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.
32. Vehicles used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
33. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.

A. 5 SAFETY:

34. The company shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended.
35. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 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.
36. All the recommendations / commitments made in the revised EIA report of the project prepared by M/s: Anand Consultants, Ahmedabad and submitted vide letter no. NIL dated 29/06/2016 shall be implemented in letter and spirit.
37. All necessary precautionary measures as per the prevailing guidelines shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals, especially chlorine, hydrogen, HCl etc.
38. Storage of flammable chemicals shall be sufficiently away from the production area.
39. Sufficient no. of fire extinguishers shall be provided near the plant and storage area.
40. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
41. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
42. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment repot.
43. Only flame proof electrical fittings shall be provided in the plant premises.
44. 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.
45. 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.
46. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
47. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
48. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
49. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
50. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
51. 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.
52. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
53. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
54. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

A. 6 NOISE:

55. 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.

A. 7 ENERGY CONSERVATION:

56. The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.

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"Paryavaran Bhawan"
Sector-10-A, Gandhinagar-10

57. The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented.
58. The project proponent shall implement the application of solar energy which shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating systems.
59. The transformers and motors shall have minimum efficiency of 85 %.
60. Variable frequency drives shall be installed.
61. Energy conservation measures shall include use of electronic lighting system, use of CFL tubes to minimize energy use, use of programmable timers for pumping system and lighting, water level controllers for water pumps, centralized cooling etc.
62. Energy saving practices as follows shall be practiced:-
    - Constant monitoring of energy consumption and defining targets for energy conservation.
    - Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level.
    - Use of solar cells for lighting.
    - Use of solar water heater for canteen & washing area.
    - Proper load factor shall be maintained by the unit.
    - Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting.
    - Use of electronic ballast to save energy.
    - Automatic switching system for lighting & water tank pumping shall be used.
    - To the maximum extent possible and technically feasible, energy efficient equipment like motors, pumps, air conditioning systems shall be selected.
    - Gravity flow shall be preferred wherever possible to save pumping energy.
    - Promoting awareness on energy conservation.
    - Training to the staff on methods of energy conservation and to be vigilant for this.

A. 7 CLEANER PRODUCTION AND WASTE MINIMISATION:

63. 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.
64. The company shall undertake following waste minimization measures:
    a. Metering and control of quantities of active ingredients to minimize waste.
    b. Reuse of by-products from the process as raw materials or raw materials substitutes in other process.
    c. Use of automated and enclosed filling to minimize spillages.
    d. Use of close feed system into batch reactors.
    e. Dry cleaning / mopping of floor instead of floor washing
    f. Use of high pressure hoses for cleaning to reduce wastewater generation
    g. Regular preventive maintenance for avoiding leakage, spillage etc.

A. 8 GREEN BELT AND OTHER PLANTATION:

65. 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 the GIDC estate, nearby schools, gram panchayat areas and any other open areas in consultation with the GIDC / local bodies / GPCB and submit an action plan of plantation for next three years to the GPCB.
66. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development.

B. OTHER CONDITIONS:

67. 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.
68. All the recommendations / commitments made in the EIA report of the project prepared by M/s: Anand Consultants, Ahmedabad and submitted vide letter no. NIL dated 29/06/2016 shall be implemented in letter and spirit.
69. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
70. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
71. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
72. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
73. 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.
74. 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, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991

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Gujarat Pollution Control Board,
"Paryavaran Bhavan"
Sector-10-A, Gandhinagar-10

along with their amendments and rules.

75. The company shall undertake socio-economic developmental / community welfare activities as per the CSR Rules 2014.
76. 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.
77. 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 SEIAA/ 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.
78. 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 of the environmental protection and management.
79. 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 hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
80. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
81. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
82. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
83. 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.
84. 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.
85. This environmental clearance is valid for seven years from the date of issue.
86. 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.

With regards,
Yours sincerely,

(G. J. DAVE)
Member Secretary

Issued to:
Mr. Ashu Pareek,,
M/s. Grasim Industries Limited.
Skyline Building,
3rd floor, Nr. Shital Guest House,
Old NH-8, Bharuch-392002

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. .Select File

MEMBER SECRETARY
State Level Environment
Impact Assessment Authority
(SEIAA) Gujarat)
Gujarat Pollution Control Board,
"Paryavaran Bhavan"
Sector-10-A, Gandhinagar-10

(G. J. DAVE)
Member Secretary

S. M. SAIYAD, IFS
MEMBER SECRETARY
SEIAA (GUJARAT)

सत्यमेव जयते

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/1(d)/ 287/2019 Date: 4 FEB 2019 By R P A D

Time Limit

Sub: **Environment Clearance to M/s. Grasim Industries Ltd., for expansion of Captive Power Plant within the existing premises located at Plot No. -1, GIDC Industrial Estate, P.O.-Vilayat, Ta.: Vagra, Dist.: Bharuch. In Category 1(d) of Schedule annexed with EIA Notification dated 14/09/2006.**

Ref: **Your Proposal No. SIA/GJ/THE/28933/2017.**

Dear Sir,

This has reference to your application along with EIA report dated **05/10/2018** submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006 and additional information / documents submitted vide letter dated **10/12/2018** to the SEAC.

The proposal is for Environmental Clearance to **M/s. Grasim Industries Ltd., for expansion of Captive Power Plant within the existing premises located at Plot No. -1, GIDC Industrial Estate, P.O.-Vilayat, Ta.: Vagra, Dist.: Bharuch.** It is an existing unit for manufacturing following, which falls in the category - 1(d) of the schedule of the EIA Notification-2006:

Sr. No.	Name of Product/Activity	Quantity, MT/Month			End-use of product
		Existing	Proposed	Total	
1.	Captive Power Plant (CPP)	96 MW	45 MW	141 MW	Power Generation for Captive use

The project activity is covered in 1(d) and is of 'B' Category. Public hearing was conducted on 21/08/2018.

The SEAC, Gujarat vide their letter dated **21/01/2019** had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on **27/12/2018**. The proposal was considered by SEIAA, Gujarat in its meeting held on **23/01/2019** at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A. CONDITIONS :

A. 1 SPECIFIC CONDITION :

1. Unit shall comply the emission standards mentioned in the Notification by MoEF&CC vide no. S.O. 3305 (E) dated 07/12/2015 and amended time to time.
2. Unit shall comply all the conditions stipulated in Coal Handling Guidelines published by GPCB.
3. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority
4. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
5. Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time for CPP.
6. All measures shall be taken to prevent soil and ground water contamination.
7. There shall be no drainage connection to discharge waste water from the premises.

A. 2 WATER :

8. The fresh water requirement for the proposed expansion shall not exceed 14883 KL/day. Unit shall reuse 11689 KLD [5870 KLD steam condensate from boiler for Boiler make-up, 4518 KLD permeate from RO plant for cooling tower make-up, washing and DM plant, 1301 KLD reject from RO plant for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning(45 KLD)] within premises. Hence, fresh water requirement shall not exceed 4495 KLD and it shall be met through GIDC water supply system. Permission from the Concern authority for additional water requirement shall be obtained.
9. Metering of water shall be done and its records shall be maintained. No ground water shall be tapped in any case for meeting the project requirements.
10. Unit shall reuse 5870 KLD of Boiler condensate for Boiler feed water.
11. The industrial effluent generation after proposed expansion in power plant shall not exceed 6505 KL/day.
12. Entire quantity of waste water shall be subjected to Primary ETP (Cap. 500 KLD X 2) followed by RO plant.
13. RO permeate (5204 KLD) shall be reused for cooling tower make-up (4000 KLD), washing (75 KLD), DM plant (443 KLD) and gardening plantation (686 KLD) within premises.

State Level Environment Impact Assessment Authority SEIAA Gujarat

14. RO reject (1301 KLD) shall be reused for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning (45 KLD)] within premises.
15. Complete Zero Liquid Discharge (ZLD) shall be maintained and there shall be no discharge of industrial effluent in any case.
16. Domestic wastewater generation shall not exceed 6.4 KL/day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.
17. 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.
18. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
19. The unit shall provide metering facility at the inlets and outlets of the collection cum reuse system of waste water and maintain records of the same.
20. The unit shall provide adequate effluent treatment plant (ETP) with RO system for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve Zero Liquid Discharge (ZLD) for CPP by reusing entire waste water within premises. .
21. The unit shall provide metering facility at the inlet and outlet of the ETP & RO system and maintain records for the same.
22. Proper logbooks of ETP, chemical consumption, quantities and qualities of effluent reuse, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

A. 3 AIR:

23. Unit shall not exceed fuel consumption for Steam Boiler and stand-by DG set as mentioned below:

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
	Existing					
1.	Boiler 1 & 2 (2 x 175 TPH)	125	Coal	100 MT/hr	SPM, SO_2, NOx	ESP and Low NOx burners
2.	Boiler 3 & 4 (2 x 175 TPH)	125			SPM, SO_2, NOx	ESP and Low NOx burners
	Proposed					
3.	Boiler-5 (175 TPH)	125	Coal	29.16MT/hr	SPM, SO_2, NOx	ESP and Low NOx burners

24. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:
25. There shall be no process gas emission from existing as well as from the proposed project.
26. Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.
27. A long term study of radio activity and heavy metals contents on coal/lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/lignite and fly ash (including bottom ash) shall be put in place.
28. Height of flue gas stacks attached to Boilers shall be minimum 125 meters.
29. A flue gas stack of 125 m height shall be provided with online monitoring system to existing Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis.
30. High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.
31. Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.
32. Lime stone injection technology shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.
33. The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.
34. Online monitoring system shall be installed to monitor the SOx, NOx and SPM in the flue gas stack. An arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.
35. Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed.
36. Handling of the fly ash shall be through a closed pneumatic system.
37. Ash shall be handled only in dry state.
38. The unit shall strictly comply with the Fly Ash Notification under the EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.
39. 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.

- All handling & transport of coal shall be exercised through covered coal conveyors only.
- Enclosure shall be provided at Coal loading and unloading operations.
- Water shall be sprinkled on Coal stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.
- All transfer points shall be fully enclosed.
- Adequate dust suppression/extraction system at crusher house as well as for the Coal/Lignite stock yard and other vulnerable areas shall be provided to abate dust nuisance
- Accumulated coal dust /fly ash on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.
- 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.
- Coal/Lignite shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.
- A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.

40. Regular monitoring of ground level concentration of PM2.5, PM10, NOx, SO2 and Hg 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. If 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.

A. 4 SOLID / HAZARDOUS WASTE:

41. 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.
42. Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.
43. ETP waste & spent resin shall be disposed off to authorized TSDF site.
44. Used oil shall be sold to only to the registered recyclers / rerefiners.
45. Discarded containers / barrels / bags / liners shall be sold only to the authorized registered recycler.
46. For storage of fly ash, closed silos of adequate capacity shall be provided. No ash pond shall be constructed in the project.
47. Fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.
48. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
49. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

A. 5 SAFETY:

50. The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals.
51. Necessary precautions like continuous monitoring of hot spots [ignited lignite] using temperature detection systems, water sprinklers, avoiding stacking of lignite near steam pipeline etc. shall be made for storing lignite to prevent fire hazard.
52. All the risk mitigation measures, general & specific recommendations mentioned in Risk Assessment Report shall be implemented.
53. A well designed fire hydrant system shall be installed as per the prevailing standards.
54. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
55. First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.
56. 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.
57. Flameproof fittings shall be provided in the plant area.
58. Adequate fire fighting facilities shall be provided at the proposed power plant.
59. Proper ventilation shall be provided in the work area.
60. All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.

61. The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.

A. 6 NOISE:

62. To minimize the noise pollution the following noise control measures shall be implemented:
    - ✓ Selection of any new plant equipment shall be made with specification of low noise levels.
    - ✓ Manufacturers / suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national / international regulatory norms with respect to noise generation for individual units
    - ✓ Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.
    - ✓ Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.
    - ✓ Employees shall be provided with ear protection measures like earplugs or earmuffs.
    - ✓ Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.
    - ✓ Construction equipment generating minimum noise and vibration shall be chosen.
    - ✓ Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.
    - ✓ Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.
    - ✓ Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
    - ✓ Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.
    - ✓ Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.
63. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

A. 7 GREEN BELT AND OTHER PLANTATION:

64. 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.
65. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

B. OTHER CONDITIONS:

66. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.
67. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.
68. 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.
69. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd., Ahmedabad and commitments made during presentation before SEAC, proposed in the EIA report shall be strictly adhered to in letter and spirit.
70. All the recommendations of CREP guidelines as may be applicable from time to time shall be followed vigorously.
71. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
72. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
73. 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.
74. 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, 1981, 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.
75. 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.
76. Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein.

77. 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.
78. 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.
79. 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 SEIAA/ 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.
80. 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 of the environmental protection and management.
81. 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 hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
82. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
83. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
84. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
85. 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.
86. 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.
87. This environmental clearance is valid for seven years from the date of issue.
88. 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.
89. 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.

With regards,
Yours sincerely,

(S. M. SAIYAD)
Member Secretary

Issued to:
M/s. Grasim Industries Ltd.,
Plot No. -1, GIDC Industrial Estate,
P.O.:Vilayat, Ta.: Vagra, Dist.: Bharuch

S. J. PANDIT, IFS (Retd.)
MEMBER SECRETARY
SEIAA (GUJARAT)

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/1(d)&4(d)/764/2021 Date: 10 JUN 2021 By R P A D

Time Limit

Sub: Environment Clearance to M/s. Grasim Chemicals Ltd. for expansion of setting up of Chlor Alkali Plant and Captive Power Plant (CPP) at Plot No.-1, GIDC Industrial Estate, Vill: Vilayat, Tal: Vagra & Dist: Bharuch, Gujarat. In Category 1(d)&4(d) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND2/12124/2016.

Dear Sir,

This has reference to your application along with EIA report dated **27/11/2020** submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to **M/s. Grasim Chemicals Ltd. for expansion of setting up of Chlor Alkali Plant and Captive Power Plant (CPP) at Plot No.-1, GIDC Industrial Estate, Vill: Vilayat, Tal: Vagra & Dist: Bharuch, Gujarat.** It is a proposed an existing unit for manufacturing following products, which falls in the category - 1(d) & 4(d) of the schedule of the EIA Notification-2006:

Sr. no.	Name of the Products	CAS no. / CI no.	Quantity (MT/Month)			End-use of the products
			Existing	Proposed	Total	
1.	Caustic Soda Lye	1310-73-2	30416.67	12166.67	42583.33	Manufacture of pulp and paper, alumina, soap and detergents, petroleum products and chemical production. Other application include water treatment, food, textile, metal processing, mining, glass making and others.
2.	Hydrogen	1333-74-0	8516666.67 (Nm^3)	3406666.67 (Nm^3)	11923333.33 (Nm^3)	Industrial application such as refining, treating metals and food processing. It is also used as alternate fuel in many industries.
3.	Liquid Chlorine / Sodium Hypochlorite / Hydrochloric Acid	7782-50-5	27375	20865.83	48240.83	It is a disinfectant. It is used to treat drinking water and swimming pool water. It is also used to make hundreds of consumer products from paper to paints, and from textiles to insecticides. About 20% of chlorine produced is used to make PVC. It can be used Vinyls, Chloromethanes, CPW, Organics Chemicals

4.	Aluminium Chloride	7746-70-0	2083.33	416.67	2500	It finds application in the chemical industry as a catalyst for Friedel–Crafts reactions, both acylations and alkylations. It can be used in Agrochemical s, Pigments and Dyes, Pharma, Coating Industries
5.	Sodium Sulphate	7757-82-6	0	222.67	222.67	Sodium sulfat e is used to dry organic liquids. As a filler in powdered home laundry detergents.
6.	Captive Power Plant	---	141 MW	35 MW	176 MW	Power Generation

The project activity is covered in 1(d)& 4(d) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(ii) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated **03/05/2021** had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on **01/03/2021**. The proposal was considered by SEIAA, Gujarat in its meeting held on **03/05/2021** at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.CONDITIONS :

A.1SPECIFIC CONDITION :

1. All the issues raised in the earlier public hearing dated 21.08.2018 shall be comprehensively addressed / complied with in a time bound manner.
2. Total Sulphur content of fuel use in CPP shall not exceed 0.8% at any point of time.
3. Transportation route for vehicles carrying Fly Ash and Coal shall have least minimum pass near human habitation.
4. Unit shall comply Coal Handling Guidelines published by GPCB.
5. Project Proponent (PP) shall maintain Complete Zero Liquid Discharge [ZLD] status all the time and there shall be no drainage connection from the premises and wastewater discharge outside premises by any means for CPP all the time.
6. Unit shall install CEMS **[Continuous Emission Monitoring System]** in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 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].**
7. PP shall pursue health check-ups of the workers on regular basis and shall provide adequate personal protective equipments.
8. Unit shall comply the emission standards mentioned in the Notification by MoEF&CC vide no. S.O. 3305 (E) dated 07/12/2015 and amended time to time.
9. Transportation route for vehicles carrying Fly Ash and Coal shall have least minimum pass near human habitation.
10. Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.
11. A long term study of radio activity and heavy metals contents on coal/lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/lignite and fly ash (Including bottom ash) shall be put in place.
12. A flue gas stack of 125 m height shall be provided with online monitoring system to proposed Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis.
13. High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified

standards or boiler shall shut down totally.

14. Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.
15. Lime stone injection technology shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.
16. The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company
17. The PP shall develop green belt within premises and nearby villages (154057.21 Sq. m i.e. 33 % of the total plot area) as committed 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.
18. **Safety & Health**
    a) PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.
    b) 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.
    c) 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.
    d) PP shall install adequate fire hydrant system within premises and separate storage of water for the same shall be ensured by PP.
    e) PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labour within premises.
    f) Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.

A-2 WATER :

19. Total water requirement for the project shall not exceed 24,768 KLD. Unit shall reuse 13,488 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 11,280 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.
20. The industrial effluent generation from the project shall not exceed 8,313 KLD.
21. 8,313 KLD, total industrial effluent shall be treated in ETP consists of primary, secondary & tertiary treatment units. Out of 8313 KLD, treated effluent, 600 KLD shall be disposed into deep sea, 7713 KLD shall be treated in RO Plants.
22. 5566 KLD, RO permeate shall be reused within premises and 686 KLD, RO permeate shall be reused for gardening/plantation.
23. 1301 KLD, RO reject shall be used in coal yard, dust/ ash suppression and road cleaning and 140 KLD, RO reject shall be treated in MEE followed by ATFD. 112 KLD, MEE condensate shall be reused within premises.
24. Domestic wastewater generation shall not exceed 129.40 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.
25. 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.
26. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
27. The unit shall provide metering facility at the inlet of ETP, MEE, STP and RO and maintain records for the same.
28. Proper logbooks of ETP, MEE, STP and RO; 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.

A-3 AIR:

29. Unit shall not exceed fuel consumption for boilers, Flaker Plant and D G Sets as mentioned below:

Sr. No.	Stack / Vent attached to	Type & Quantity of Fuel	Height of the Stack/ Vent (m)	Expected Emission	Air Pollution Control Measures
EXISTING Flue Gas Emission					
1.	Boiler 1 & 2	Coal [100 MT/hr]	125	PM SO_2 NO_2	ESP and Low NOx Burners
2.	Boiler 3 & 4		125	PM SO_2 NO_2	ESP and Low NOx Burners
3.	Boiler-5 (175 TPH)	Coal [29.16 MT/hr]	125	PM SO_2 NO_2	ESP and Low NOx Burners

4.	D.G. Sets (1875 KVA x 2)	HSD [400 lit/hr. each]	36	PM SO_2 NO_2	NA
5.	D.G. Sets (750 KVA x 3)	HSD [200 lit/hr. each]	11	PM SO_2 NO_2	
6.	D.G. Sets (1875 KVA x 2)	HSD [400 lit/hr. each]	31	PM SO_2 NO_2	
PROPOSED Flue Gas Emission					
1.	Boiler -6 (250 TPH)	Coal [42 MT/hr]	125	PM SO_2 NO_2	ESP and Low NOx Burners
2.	D.G. Sets (1875 KVA x 1)	HSD [400 lit/hr. each]	36	PM SO_2 NO_2	NA
3.	Flaker Plant	Hydrogen [447.1 kg/hr.]	40	PM SO_2 NO_2	NA

30. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:

31. Unit shall provide adequate APCM with process gas generation sources as mentioned below:

EXISTING Process Gas Emission					
1.	Sodium Hypo Stack 1 (Caustic Plant)	--	35	Cl_2	Alkali Scrubber
2.	HCl stack 1 (Caustic Plant)	--	35	HCl	Water scrubber having bubble cap tray absorption system.
3.	HCl stack 2 (Caustic Plant)	-- --	35		
4.	Poly Aluminum Chloride plant		35	HCl Cl_2	Water scrubber system
5.	Chlorinated Paraffin Plant	--	35	HCl Cl_2	Alkali scrubbing system
6.	Aluminum Chloride	--	35	HCl Cl_2	Alkali scrubbing system
7.	Stable Bleaching Powder	--	35	HCl Cl_2	Alkali scrubbing system
8.	Sodium Hypo Stack 2 (Caustic Plant)	--	35	Cl2	Alkali Scrubber
9.	HCl stack 3 (Caustic Plant)	--	35	HCl	Water scrubber having bubble cap tray absorption system.
10.	HCl stack 4 (Caustic Plant)	--	35		
11.	Poly Aluminum Chloride Liquid		35	HCl	Water scrubber system
12.	Poly Aluminum Chloride Powder	--	35	Cl_2	3 stage Water scrubber system
13.	Chlorinated Paraffin Plant	--	35	HCl Cl_2	Alkali scrubbing system
14.	Aluminum Chloride	--	35	HCl Cl_2	Alkali scrubbing system
15.	Stable Bleaching Powder	--	35	HCl Cl_2	Alkali scrubbing system
Proposed					
Not any					

32. 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.

33. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
34. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, HCl, Cl2 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. If 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.

A.4 SOLID / HAZARDOUS WASTE:

35. All the hazardous waste management shall be taken care as mentioned below:

Sr. no.	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/Annum)			Management of HW
				Existing	Proposed	Total	
1	ETP Sludge	ETP	35.3	1524.50 MT	2557 MT	4081.5 MT	Will be collected, stored, transported & Disposed at authorized TSDF site.
2	Spent Resin	From Chlor Alkali Plant	35.2	0.42 MT	0.33 MT	0.75 MT	Will be collected, stored, transported & Disposed at designated CHWIF site
3	Spent Carbon	From Chlor Alkali Plant	36.2	0.33 MT	0.07 MT	0.40 MT	Will be collected, stored, transported & Disposed at designated CHWIF site.
4	Used Oil	From lubrication or D. G. Set	5.1	128 KL	100 KL	228 KL	Will be collected, stored and sold to authorized recycler.
5	Discarded Containers	From Manufacturing	33.1	1680 Nos.	318 Nos.	1998 Nos.	Will be collected, decontamination, stored and reused/ sold to authorized recycler
6	Discarded Bags/ Liners	From Manufacturing	33.1	41.8 MT	54.2 MT	96 MT	
7	Dilute Sulphuric Acid (75%-88%)	From Chlor-Alkali Plant	B-15	0 MT	11,500 MT	11,500 MT	Collection, storage, transportation and will be sold to Authorized actual users having Rule-9 permission
Non-hazardous waste							

8	Brine/ process Sludge	--		6066 MT	2934 MT	9000 MT	Will be collected, stored, transported & disposed off to secured landfill site.
9	Fly Ash	--		111600 MT	27702 MT	139302 MT	Sold fly ash to M/s. Anmol & Co., J.K. Lakshmi Cement, Ambuja Cement

36. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
37. Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.
38. 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.
39. Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.
40. Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed Handling of the fly ash shall be through a closed pneumatic system Ash shall be handled only in dry state.
41. The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

A. SOTHER:

42. The project proponent shall allocate the separate fund of Rs. 2.18 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as 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.
43. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd . Ahmedabad and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.
44. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.
45. 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.
46. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
47. 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.
48. 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, 1981, 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.
49. 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.

B.GENERAL CONDITIONS:

B.1 CONSTRUCTION PHASE:

50. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
51. 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 areas for controlling fugitive emission.

52. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
53. First Aid Box shall be made readily available in adequate quantity at all the times.
54. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
55. 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.
56. 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.
57. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
58. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
59. 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 off 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.
60. 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.
61. 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.
62. "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.
63. "No uncovered vehicles carrying construction material and waste shall be permitted."
64. "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."
65. Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).
66. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
67. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
68. Grinding and cutting of building materials in open area shall be prohibited.
69. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
70. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

B.2 OPERATION PHASE:

B.2.1 WATER:

71. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
72. 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.

B.2.2 AIR:

73. 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.
74. 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.
75. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
76. 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.
77. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

B.2.3 HAZARDOUS/SOLID WASTE:

78. 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.
79. 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.

80. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
81. 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.
82. The design of the Trucks/tankers shall be such that there is no spillage during transportation
83. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
84. 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.

B.2.4 SAFETY:

85. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
86. 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.
87. Main entry and exit shall be separate and clearly marked in the facility.
88. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
89. Storage of flammable chemicals shall be sufficiently away from the production area.
90. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
91. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
92. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
93. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
94. Only flame proof electrical fittings shall be provided in the plant premises.
95. 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.
96. 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.
97. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
98. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
99. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
100. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
101. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
102. 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.
103. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
104. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
105. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

B.2.5 NOISE:

106. 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.

B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

107. 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.
108. 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.

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.

B.2.7 GREEN BELT AND OTHER PLANTATION:

109. 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.
110. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

B.3 OTHER CONDITION:

111. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).
112. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 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.
113. 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.
114. 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.
115. 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.
116. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
117. 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.
118. 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.
119. 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.
120. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
121. 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.
122. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
123. Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.
124. 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.
125. 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, 1981, 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.
126. 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.
127. 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.
128. 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.

129. 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 SEIAA/ 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.
130. 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 1st December of each calendar year.
131. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
132. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
133. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
134. 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.
135. 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.
136. This environmental clearance is valid for seven years from the date of issue.
137. 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.
138. 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.

With regards,
Yours sincerely.

(S. J. PANDIT)
Member Secretary

Issued to:
Grasim Chemicals Ltd.
Plot No.-1, GIDC Industrial Estate
Vill: Vilayat,
Tal: Vagra
Dist: Bharuch,
Gujarat.

State Level Environment Impact Assessment Authority Gujarat SEIAA

ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), GUJARAT)

To,

The President and Unit Head

GRASIM INDUSTRIES LTD

M/s. Grasim Chemicals Ltd.(Chemical Division),Plot No.-1, GIDC Industrial Estate, Vilayat, Taluka-Vagra, Distric-Bharuch, Gujarat -392140

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/GJ/IND3/426081/2023 dated 15 May 2023. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC24B021GJ166124**
2.	**File No.**	Please upload covering letter
3.	**Project Type**	Expansion
4.	**Category**	B
5.	**Project/Activity including Schedule No.**	5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk
6.	**Name of Project**	Proposed expansion of value added products (VAPs) and Chloro-Methanes manufacturing plant at Plot No. 1, GIDC Industrial Estate, Village: Vilayat, Taluka: Vagra, Bharuch, Gujarat
7.	**Name of Company/Organization**	GRASIM INDUSTRIES LTD
8.	**Location of Project**	GUJARAT
9.	**TOR Date**	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

(e-signed)
Asav P. Gadhvi
Member Secretary
SEIAA - (GUJARAT)

Date: 09/04/2024

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.

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ASAV P. GADHVI
MEMBER SECRETARY
SEIAA (GUJARAT)

सत्यमेव जयते

GOVERNMENT OF INDIA
MOEF & CC
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
GUJARAT

No. SEIAA/GUJ/EC/5(f)/ 488 /2024 **Date: 5 APR 2024** By R P A D

Time Limit

Sub: Environment Clearance to M/s. Grasim Industries Limited (Chemical Division) for setting up of expansion of manufacturing plant for 'Synthetic Organic Chemicals' at Plot No.1, GIDC Industrial Estate, Village: Vilayat, Taluka:Vagra, Bharuch, Gujarat. In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND3/426081/2023.

Dear Sir,

This has reference to your application along with EIA report dated **15/04/2023**, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to **M/s. Grasim Industries Limited (Chemical Division) for setting up of expansion of manufacturing plant for 'Synthetic Organic Chemicals' at Plot No.1, GIDC Industrial Estate, Village: Vilayat, Taluka:Vagra, Bharuch, Gujarat.** It is **an existing** unit for manufacturing following products, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:

S. No.	Product	CAS Number	Capacity,TPA			Enduse
			Existing	Additional	Total	
	ECProducts					
A	**CausticSodaLye&OtherVAPs**					
1	CausticSodaLye	1310-73-2	511000	0	511000	Alumina,Textiles,PulpandPapers, Soapsanddetergents
2	Liq.Chlorine/HCL/ SodiumHypo	7782-50-5/ 7647-01-0/ 7681-52-9	578890	0	578890	Vinyls,Chloromethanes,CPW, OrganicsChemicals/ SteelPickling,Manufacturerof Organic compound/Disinfectant
3	Hydrogen	1333-74-0	143079999.96Nm^3	0	143079999.96Nm^3	GreenFuelandHydrogenation
4	Poly AluminiumChloride	1327-41-9	250000	0	250000	PotableWater treatment, EffluentTreatment&Others
5	Stable BleachingPowder	7778-54-3	61000	0	61000	Water treatment,Aquaculture, TextileIndustry
6	ChlorinatedParaffin	63449-39-8	70000	0	70000	Wires and Cable,Footwear,Leather,Metalworking
7	ChlorosulphonicAcid	-	73000	-73000	0	-
8	SulphuricAcid	-	36500	-36500	0	-
9	CarbonDisulphide	-	31025	-31025	0	-
10	Aluminium Chloride	7446-70-0	30000	0	30000	Agrochemicals,PigmentsandDyes, Pharma, CoatingIndustries
11	SodiumSulphate	7757-82-6	2672	0	2672	Sodium Sulphate isusedtodryorganic liquids.Asafillerin powdered homelaundry detergents.As a fining agentwhichremovessmall airbubblesfrommoltenglass.
12	CaptivePowerPlant	--	176MW	0	176MW	Captivepower consumption
B	**Chloromethanes**					
13	MethylChloride	56-23-5	54000	66000	120000	PharmaceuticalsandRefrigerantGases
14	MethyleneChloride (50% to 80% oftotalproduction)	127-18-4				
	Chloroform(15%to					

15	40%oftotalproduction)	67-72-1				
16	Carbon TetraChloride(5%to 10%oftotalproduction)	56-23-5				
17	Perchloroethylene	74-87-3	0	40000	40000	PCE is used as drycleaning &Degreasingagentsaswell as feed stock forhydrofluorocarbon (HFC)refrigerants
18	Hexachloroethane	75-09-2	0	4000	4000	Hexachloroethane has been used in theformulation ofextreme pressurelubricants.Ithasalsobeen used as a chaintransferagentin the emulsionpolymerization ofpropylenetetrafluoroethylenecopolymer.
19	Carbon TetraChloride	67-66-3	0	50000	50000	Asasolventintherubberindustry
C	**Fatty Alcohols**					
a	Fatty Alcohol Manufacturing Plant					
20	Fatty Alcohol	-	32400	-32400	0	-
21	Crude Alcohol Refining (Light)	-	300	-300	0	-
22	Crude Alcohol Refining (Heavies)	-	1728	-1728	0	-
b	Fatty Alcohol Fractionation Plant					
23	Fractionated Fatty Alcohol – Light Cut Alcohol	-	6552	-6552	0	-
24	Fractionated Fatty Alcohol – Middel Cut Alcohol	-	2388	-2388	0	-
25	Fractionated Fatty Alcohol -Light	-	156	-156	0	-
	Non-ECProducts					
26	PhosphoricAcid	7664-38-2	35000	0	35000	DetergentsandRe-agentchemicals
27	CalciumChloride	7440-70-2	87600	0	87600	Oil Rigs, AntiFreezingagent
28	Aluminium ChloroHydrate	12042-91-0	5000	0	5000	Watertreatment
29	CalciumHypochlorite (HighStrengthBleachingPowder-HSBP)	7778-54-3	24000	0	24000	Disinfectant,Watertreatment,Aquaculture

 # Brief Note of Product Profile:

1. No of Manufacturing Plants: 1
2. Brief Note regarding number of Products to be manufactured considering plant capacity: The project falls under Category B1 of project activity 5(f) as per the schedule of EIA Notification 2006.

The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated **11/03/2024** had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on **09/02/2024**. The proposal was considered by SEIAA, Gujarat in its meeting held on **28/03/2024** at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.CONDITIONS :

A.1SPECIFIC CONDITION :

1. **DM Water Regeneration (1745 KLD) from CPP shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling and DM Water Regeneration low COD effluent (207 KLD) from CA plant shall be treated in ETP followed by RO & MEE plant and**

recycle back in Industrial different purposes.

2. **Boiler Condensate water (7790 KLD) shall be recycle back in boiler make up and (3830 KLD) shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling.**
3. **Process low COD effluent (196 KLD) from CA plant shall be treated in ETP & shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.**
4. **PP shall operate ETP 40,000 KLD capacity & RO 10,000 KLD capacity regularly.**
5. **PP shall operate ETP 2500 KLD, RO 3120 KLD & MEE 630 KLD capacity regularly.**
6. **PP shall carry out CER activity of their project cost (1.5 Crore) , as per their submission vide OM of MoEF & CC dated 1.5.2018 and its amendment.**
7. **PP shall provide total Green area of 59% as per their submission.**
8. Unit shall install CEMS **[Continuous Emission Monitoring System]** in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 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].**
9. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
10. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21/07/2010 and amended from time to time shall be followed. (In case of other than Pharma and dyes)
11. National Emission Standards for Bulk drug and formulation (Pharmaceuticals) Industry issued by the Ministry vide G. S. R. 541 (E) dated 06/08/2021 and amended from time to time shall be followed. (In case of Pharma)
12. National Emission Standards for Dye and dye intermediates Industry issued by the Ministry vide G. S. R. 325 (E) dated 07/05/2014 and amended from time to time shall be followed. (In case of Dyes)
13. 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.
14. All measures shall be taken to avoid soil and ground water contamination within premises.
15. **Safety & Health:**
    a. PP shall obtain PESO permission for the storage and handling of hazardous chemicals. (If applicable).
    b. PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.
    c. 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.
    d. Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.
    e. 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.
    f. 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.
    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.
    h. PP shall take all the necessary steps for human safety 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.
    j. Unit shall never store drum/barrels/carboys of incompatible material/chemical together.
    k. Unit shall provide effective Isolation for Process area and storage of hazardous chemicals.
    l. The projectmanagement shall prepare a detailed Disaster ManagementPlan (DMP) for the project as per the guidelinesfromDirectorateof IndustrialSafety and Health.
    m. Unit shall provide chlorine leakage control emergency kit and FRP hood with scrubber system for chlorine safety.
    n. Unit shall provide safety valve and rapture disc, as well as auto dump or auto quench/, suppress system for polymerization vessel safety.

A. 2 WATER :

16. Total water requirement for the project shall not exceed 27,701 KLD. Unit shall reuse 14,008 KLD of treated effluent within

premises. Hence, fresh water requirement shall not exceed 13,693 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for procurement of water.

17. The industrial effluent generation from the project shall not exceed 16757.5 KLD.
18. Management of Industrial effluent shall be as under:

Concentrated Stream (645 KLD)

- **645 KLD** of high COD effluent generated i.e from process (**150 KLD**) CMS plant shall be treated in ETP & from that **139 KLD** shall be discharge into deep sea through GIDC Pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment and **11 KLD** treated effluent shall be recycle back in Process and cooling tower makeup (**495 KLD**) from CMS plant shall be treated in ETP followed by RO plant and recycle back in different industrial purposes.

Dilute Stream (16112.5 KLD):

- DM Water Regeneration (**1745 KLD**) from CPP shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling and DM Water Regeneration low COD effluent (**207 KLD**) from CA plant shall be treated in ETP followed by RO & MEE plant and recycle back in Industrial different purposes.
- Boiler Condensate water (**7790 KLD**) shall be recycle back in boiler make up and (**3830 KLD**) shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling.
- Process low COD effluent (**196 KLD**) from CA plant shall be treated in ETP & shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.
- Cooling Tower Makeup (**1500 KLD**) from CPP shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling, and Cooling Tower Makeup low COD effluent (**355 KLD**) from CA plant shall be treated in ETP & shall be discharge to deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.
- Washing effluent (**130 KLD**) from CPP shall be treated in ETP followed by RO plant and RO permeate shall be recycle back in Industrial Processes and RO reject shall be reused for Coal/Ash sprinkling, and Washing low COD effluent (**355 KLD**) from CA plant shall be treated in ETP & from that 49 KLD treated effluent shall be discharge into deep sea through GIDC pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment. Other 306 KLD goes for further treatment in RO followed by MEE plant and recycled back in different industrial purposes.
- Others (Scrubber) low COD effluent (**4.5 KLD**) from CA plant shall be treated in ETP followed by RO & MEE plant and recycled back in different industrial purposes.

19. Domestic wastewater generation shall not exceed 138.4 KL/day for proposed project and it shall be treated in STP.It shall not be disposed off 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.
20. 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.
21. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
22. Treated waste water shall be sent to common facilities into deep sea through GIDC pipeline only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human Health and Environment.
23. The PP shall ensure to dispose off Waste water to the Common Facilities having valid CTO of GPCB.
24. Unit shall feed wastewater to in-house MEE only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.
25. Unit shall provide STP and ETP with adequate capacity.
26. The unit shall provide metering facility at the inlet and outlet of ETP and maintain records for the same.
27. Proper logbooks of ETP; reuse/ recycle of treated/ untreated effluent; chemical consumption in effluent treatment; quantity & quality of treated effluent sent to common facilities; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

A.3AIR:

28. Unit shall not exceed fuel consumption for Boilers, Flaker Plant, Hot Oil Furnaces and D G Sets as mentioned below.

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
Total After Proposed Expansion						
1.	Boiler1 & 2	125	Coal	100MT/Hr.	PM,	ESP & Low NO_x Burners

2.	Boiler3 & 4	125	Coal		SO_2, NO_x	ESP & Low NO_x Burners
3.	Boiler 5 & 6	125	Coal	71.16 MT/Hr		ESP & Low NO_x Burners
4.	D.G.Sets	36	HSD	400Lit/Hr.		Adequate Stack Height
5.	D.G.Sets	31	HSD	400Lit/hr.		Adequate Stack Height
6.	DGSets	11	HSD	200Lit/hr.		Adequate Stack Height
7.	DGSet	36	HSD	400Lit/Hr.		Adequate Stack Height
8.	FlakerPlant	40	Hydrogen	447.1kg/hr.		Adequate Stack Height
9.	2 nos. of HotOilFurnace	30	NG	150KG/HR		Adequate Stack Height

29. PP shall use approved fuels only as fuel in Boilers, Flaker Plant, Hot Oil Furnaces and D G Sets.
30. Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.
31. Unit shall provide adequate APCM with process gas generation sources as mentioned below.

S. No.	Specific Source of emission (Name of the Product & Process)	Type of Emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
	Total after proposed expansion			
1	Sodium Hypo stack-1(CausticPlant)	Cl2-9 mg/Nm^3	35	AlkaliScrubber
2	HClstack-1(CausticPlant)	HCl- 35 mg/Nm^3	35	Water Scrubber having bubblecaptrayabsorptionsystem
3	HClstack-2(CausticPlant)		35	Water Scrubber having bubblecaptrayabsorptionsystem
4	Poly Aluminum ChlorideLiquid	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Waterscrubbersystem
5	ChlorinatedParaffinPlant	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Alkaliscrubbingsystem
6	AluminumChloride	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Alkaliscrubbingsystem
7	Stable Bleaching PowderPlant	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Alkaliscrubbingsystem
8	PhosphoricAcidPlant	HCl- 20 mg/Nm^3 HF- 6 mg/Nm^3	35	WaterScrubber
9	CalciumChloride	HCl- 20 mg/Nm^3	35	WaterScrubber
10	Sodium Hypo stack-2(CausticPlant)	Cl2-9 mg/Nm^3	35	AlkaliScrubber
11	HClstack-3(CausticPlant)	HCl- 35 mg/Nm^3	35	Water Scrubber having bubblecaptrayabsorptionsystem
12	HClstack-4(CausticPlant)		35	Water Scrubber having bubblecaptrayabsorptionsystem
13	Poly Aluminum ChlorideLiquid	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Waterscrubbersystem
14	Poly Aluminum ChloridePowder	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	3stagewaterscrubber
15	ChlorinatedParaffinPlant	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Alkaliscrubbingsystem
16	AluminumChloride	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Alkaliscrubbingsystem
17	Stable Bleaching PowderPlant	HCl- 20 mg/Nm^3 Cl2-9 mg/Nm^3	35	Alkaliscrubbingsystem
18	VentattachedtoReactor	H2gas*	35	--
19	Vent attached to dryer-1(HSBP)	PM< 150mg/Nm^3	21	BagFilter
20	Vent attached to dryer-2(HSBP)	PM< 150mg/Nm^3	21	BagFilter
21	Ventattachedtoreactionvessel-1(HSBP)	Cl2< 5 mg/m^3	21	Water/CausticScrubber
22	Ventattachedtoreactionvessel-2(HSBP)	Cl2< 5 mg/m^3	21	Water/CausticScrubber
23	Hydro Chlorinator – CMSplant	HCl- 20 mg/Nm^3	35	AlkaliScrubber
24	Crude CMS Distillation - CMSPlant	VOC< 1µg/m^3	35	Condenserandguardcondenser with cooling water circulation

				&chilledcirculation
25	Heavies CMS Distillation - CMSPlant	VOC< 1µg/m^3	35	Condenser and guard condenserwithcoolingwatercirculation& chilledcirculation
26	HClstack-5(CausticPlant)	HCl- 35 mg/Nm^3	35	Water Scrubber having bubblecaptrayabsorptionsystem
27	HClstack-6(CausticPlant)		35	Water Scrubber having bubblecaptrayabsorptionsystem
28	CTCPlantStack	HCl& Cl_2	30	AlkaliScrubber
29	PCEplantStack	HCl& Cl_2	30	AlkaliScrubber
30	CMSPlantStack	HCl& Cl_2	30	AlkaliScrubber

32. 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.
33. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
34. For control of fugitive emission, VOCs, following steps shall be followed :
    a. Closed handling and charging system shall be provided for chemicals.
    b. Reflux condenser shall be provided over Reactors / Vessels.
    c. Pumps shall be provided with mechanical seals to prevent leakages.
    d. Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.
35. Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.
36. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, HCl,HF, Cl2 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. If 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.

A.4 SOLID / HAZARDOUS WASTE:

37. All the hazardous/ solid waste management shall be taken care as mentioned below.

S. No.	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity per Year			Treatment / Disposal
				Existing	Proposed	Total	
1	Chemical Sludge from waste water Treatment	Wastewater Treatment Plant	35.3	10,005 MT	0	10,005 MT	Collection, storage, transportation & disposal at TSDF site OR disposal by selling to end user under Rule-9
2	Spent Carbon	From CA plant/Filters	36.2	40.4 MT	0	40.4 MT	Collection, storage, transportation & disposal at TSDF
3	Used Spent Oil	From Lubrication or DG Set	5.1	228 KL	2 KL	230 KL	Collection, storage, transportation & disposal by selling to registered re-refiners
4	Spent ion exchange resin	From CA Plant	35.2	5 MT	-	5 MT	Collection, storage, transportation & disposal at TSDF
5	Discarded container /	From Manufacturing	33.1	2318 Nos.	182 Nos.	2500 Nos.	Collection storage, transportation, reuse or disposal by by selling to end user under Rule-9
6	Bags / Liners	From Manufacturing		96 Nos.	454 Nos.	550 Nos.	
7	Incinerable Waste	From	36.1	142	940 MT	1082	Collection, storage,

		Process		MT		MT	transportation, disposal at CHWIF site
8	Spent Acid (HCl)	from CPW, CMS & PCE Plant	B15	142500 MT	246834 MT	389334 MT	Collection, storage, transportation through pipeline and disposal by consuming in- house in manufacturing of Poly Aluminium Chloride and Phosphoric Acid and selling to end user under Rule-9.
9	Spent Acid (Dilute Sulphuric Acid)	from CPW & CMS Plant	B15	27000 MT	58249 MT	85249 MT	Collection, Storage, Transportation through pipeline and disposal by selling to end user under Rule-9.
10	Residue/sludge & filter cake	From CA Plant	16.2	1500 MT	0	1500 MT	Collection, storage, transportation & disposal at TSDF site OR disposal by selling to end user under Rule-9
11	ETP Sludge	From ETP	35.3	4081.5 MT	210 MT	4291.5 MT	Collection, storage, transportation & disposal at TSDF site OR disposal by selling to end user under Rule-9
12	MEE Salt	From MEE/ATFD	35.3	0	2500 MT	2500 MT	Collection, Storage, Transportation & Disposal at TSDF Site
13	SodiumChloride(consist of90%NaCl)	FromProcess	-	9000 MT	0	9000 MT	Collection,Storage,Transportationand disposal byselling to end userorTSDFsite
14	AluminiumDrossWaste	From ALCPProcess	-	50 MT	-	50 MT	Collection,storage,transportationand disposal atTSDFsite.
15	Batteries	From entire site	-	100 Nos.	20Nos.	120 Nos.	Collection,storage, disposalas per theBatteriesManagement andHandling Rules,2010
16	E-Waste	From entire site	-	1 MT	9 MT	10 MT	Collection,storage, disposalas per the E-WasteManagementRules 2016
17	Insulating Material	From entire site	-	25 MT	25 MT	50 MT	Collection, storage, disposal by selling to authorized recycler.
18	SpentCatalyst	From CMS Process	-	25 MT	2333 MT	2358 MT	Collection,storage,transportation &disposal at TSDFsite
19	Brine Sludge	From CA plant	-	9000 MT	0	9000 MT	Collection,storage,transportation &disposal at TSDFsite

NON-HAZARDOUS WASTE MANAGEMENT MATRIX

S. No.	Type/Name of non-hazardous waste	**Specific Source of generation (Name of the Activity, Product etc.)**	QuantityperYear			Management of HW
			Existing	Proposed	Total	
1	Fly Ash	From Boiler-CPP	139302 MT	0	139302 MT	Collection,storage,Transportation &Disposal by sellingto Brickmanufacturing /Cement industry asper fly ashnotification/rules.
2	Phosphogypsum Sludge from PA Plant	From PA Plant	30215 MT	0	30215 MT	Collection, storage, transportation & disposal as per the "Guidelines for Management, Handling, Utilisation and Disposal of PhosphoGypsum Generated from Phosphoric Acid Plants" issued by

						Central Pollution Control Board in October 2014.
3	Municipal Solid Waste	Canteen	540 Kg/Day	Construction phase = 18 kg/day Operation phase = 49 Kg/Day	607 Kg/Day	Shall be handled as per the Solid Waste Management Rules, 2016 as amended from time to time. On-site facilities (such as Organic Waste Converters (OWC)) for biodegradable wastes generated by canteen has been set up.
4	Biomedical Waste	Occupational Health Centre (OHC)	As & when generated			Shall be handled as per the Bio-Medical Waste Management Rules, 2016 as amended from time to time
5	Construction and Demolition (C&D) Wastes	Entire Site	As & when generated			Shall be handled as per the Construction and Demolition Waste Management Rules, 2016 as amended from time to time
6	Plastic wastes	Entire Site (Office blocks, Canteen etc.)	As & when generated			Shall be handled as per the Plastic waste (Management & Handling) Rules, 2016 as amended
7	Non-Hazardous metallic scrap, wooden & paper scrap	Entire Site	As & when generated			Sold to scrap dealers duly approved by the company

38. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
39. Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.
40. The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB.
41. Management of fly ash 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.
42. STP sludge shall be collected and used as manure in gardening activity or send to TSDF site for landfilling.
43. 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.

A. 5OTHER:

44. The project proponent shall carry out the activities of amount of Rs. 1.5 Crores Environment: Providing solar street lights for self-sustaining Green technology, Rooftop rain water harvesting with percolation well in Government primary schools for self-sustaining Green technology, Toilet blocks in schools, Tree Plantation, Waste collection and disposal system and Rooftop Solar panel for Anganwadi, Primary schools and health centers, Social/Health/Hygiene: School Infrastructure and Facilities, Anganwadi Infrastructure, Medical camps and Other infrastructure development i.e. renovation, road, shed etc.) proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as 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.
45. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Kadam Environmental Consultantsand 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.

B.GENERAL CONDITIONS:

B.1 CONSTRUCTION PHASE:

46. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
47. 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 areas for controlling fugitive emission.

48. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
49. First Aid Box shall be made readily available in adequate quantity at all the times.
50. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
51. 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.
52. 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.
53. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
54. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
55. 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 off 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.
56. 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.
57. 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.
58. "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.
59. "No uncovered vehicles carrying construction material and waste shall be permitted."
60. "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."
61. Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).
62. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
63. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
64. Grinding and cutting of building materials in open area shall be prohibited.
65. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
66. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

B.2 OPERATION PHASE:

B.2.1 WATER:

67. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
68. 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.

B.2.2 AIR:

69. 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.
70. 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.
71. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
72. 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.
73. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

B.2.3 HAZARDOUS/SOLID WASTE:

74. 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.

75. 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.
76. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
77. 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.
78. The design of the Trucks/tankers shall be such that there is no spillage during transportation
79. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
80. 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.

B.2.4 SAFETY:

81. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
82. 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.
83. Main entry and exit shall be separate and clearly marked in the facility.
84. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
85. Storage of flammable chemicals shall be sufficiently away from the production area.
86. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
87. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
88. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
89. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
90. Only flame proof electrical fittings shall be provided in the plant premises.
91. 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.
92. 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.
93. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
94. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
95. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
96. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
97. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
98. 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.
99. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
100. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
101. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

B.2.5 NOISE:

102. 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.

B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

103. 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.
104. 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.
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.

B.2.7 GREEN BELT AND OTHER PLANTATION:

105. 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.
106. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.
107. The PP shall develop green belt [40,478 Sq m (21.00 %) inside plant premises + 72,843 Sq m (38.00 %) at outside the premises in villages named Vilayat, Argama, Ankot, Rahad, Saran and Samar. Total 18 Acres (i.e. 72843 m2 area) is developed with approx. 28,000 trees near project site. = Total: 113321 Sq. m.) i.e. 59 % of total plot area] as 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.

B.3 OTHER CONDITION:

108. **Project Proponent shall provide mechanism/ System for wastewater stream segregation at source and strictly follow up to treatment and final disposal of the same if applicable.**
109. 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.
110. PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety.
111. 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.
112. EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures.
113. In EMP proponent should seperately indicate majors of occupational health, fire and safety measures.
114. 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/ GPCBfailing to which this provisional EC will stand withdrawn.
115. 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.
116. 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.
117. 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.
118. 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.
119. 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.
120. In LDAR preventive and predictive maintenance plan.
121. In LDAR leakage component, source of equipment leak, detention method should be given in table form.
122. In storage component should be shown separately in terms whether inflammable, toxic, corrosive, reactive etc.
123. In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100 % utilization should be ensured.
124. Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.
125. Project proponent shall display the copy of Environment Clearance at the site prominently.
126. Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.
127. Project Proponent will have to display the safety procedure in working area.

128. The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.
129. 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.
130. Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.
131. Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.
132. Integrated Regional Office of MoEF&CC,Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.
133. The PP has to maintain the logsheets / 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.
134. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).
135. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 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.
136. 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.
137. 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.
138. 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.
139. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
140. 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.
141. 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.
142. 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.
143. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
144. 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.
145. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
146. Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.
147. 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.
148. 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, 1981, 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.
149. 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.
150. 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.
151. 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.
152. 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 SEIAA/ 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.

153. 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 1st December of each calendar year.

154. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

155. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.

156. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.

157. 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.

158. 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.

159. This environmental clearance is valid for Ten years from the date of issue.

160. 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.

161. 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.

B.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:

162. Project proponent shall submit Certified Compliance Report of IRO, Gandhinagar for Existing EC obtained Within 10 days.

163. 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.

164. 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.

165. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.

166. 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.

167. 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.

168. Any person including the project proponent affected by this Environment Clearance order may file appeal to Honorable 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.

169. All complaints and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.com& (b) seacgujarat@gmail.com

(ASAV P. GADHVI)
Member Secretary

Issued to:
M/s. Grasim Industries Limited (Chemical Division)
Plot No.1, GIDC Industrial Estate,
Village: Vilayat, Taluka:Vagra, Bharuch, Gujarat

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Additional Chief Secretary, Forests & Environment Department, Govt. of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar-382010.
3. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032

4. Scientist C, Integrated Regional Office, Ministry of Environment and Forests, Aranya Bhavan, Sector-10, Gandhinagar – 382010.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
7. Select File

Signature Not Verified
Digitally signed by: Asav P. Gadhvi
Designation: Member Secretary
Date and Time: 4/9/2024 4:33:04 PM

भारत सरकार /Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन /Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग, सयाजी गंज
वडोदरा- 390020
8th Floor, Yash Kamal Building, Sayajigunj, Vadodara - 390020

ईमेल/E-mail :
dyccebaroda@explosives.gov.in
दूरभाष/Phone/Fax No : **0265 - 2225159**

सं/No : G/WC/GJ/06/1803(G34271) दि/Dated : **27/07/2022**

सेवा में/To,

M/s. Grasim Industries Limited,
5 & 6, 3RD FLOOR, SHREE MANGALAM COMPLEX,,
KASAK CIRCLE
City: BHARUCH,
District: BHARUCH
State: Gujarat
Pin : 392002

विषय/Sub : **Plot No: 1, GIDC INDL. ESTATE, Village/Town: VILAYAT, City: Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 392140 -** में सिलेंडरों में **CHLORINE** गैस का भंडारण- गैस सिलेंडर नियम, 2016 के अंतर्गत नवीकरण के बारे में/Storage of **CHLORINE** gas in cylinders at **Plot No: 1, GIDC INDL. ESTATE, Village/Town: VILAYAT, City: Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 392140 -** under Gas Cylinders Rules, 2016 - Renewal regarding.

Sir(s),

कृपया आपके दि. 13/07/2022 के आवेदन सं. **OIN1101712** का संदर्भ ग्रहण करें/Please refer to your application No.**OIN1101712** dated 13/07/2022 .

30th September 2032 तक विधिमान्य अनुज्ञप्ति संख्या **G/WC/GJ/06/1803** इसके साथ नवीकरण कर अग्रेषित की जा रही है।/ Licence Number: **G/WC/GJ/06/1803** is renewed and valid upto 30th September 2032 is forwarded herewith.

कृपया नोट करें कि गैस सिलेंडर नियम, 2016 के नियम 55(5) के अनुसार, अनुज्ञप्ति के पुनः नवीकरण हेतु आवेदन, इस कार्यालय को इस अनुज्ञप्ति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर **2032** को या इससे पूर्व) जमा कर दें । दिनांक 30 सितम्बर 2032 के पश्चात परंतु दिनांक 30 सितम्बर 2033 से पूर्व प्राप्त नवीनीकरण आवेदन, गैस सिलेंडर नियम, 2016 के नियम 55(7) के अनुसार विलंब शुल्क के साथ ही विचाराधीन होगा । दिनांक 30 सितम्बर 2033 तक कोई नवीनीकरण आवेदन प्राप्त नही होने की स्थिति में यह अनुज्ञप्ति स्वतः निरस्त हो जाएगी । /Please note that application for renewal of the licence should be submitted so as to reach this office before the licence expires (i.e. on or before 30th September, **2032**) as required under Rule 55(5) of Gas Cylinders Rules, 2016. Application for renewal of licence received after 30th September, **2032** but not later than 30th September, **2033** shall be considered only with late fee applicable vide Rule 55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th September, **2033**.

कृपया इस पत्र की प्राप्ति की पावती दें । /Please acknowledge the receipt of the same.

भवदीय/Yours faithfully,

((गणेश आर.)
(GANESH R.))
उप विस्फोटक नियंत्रक
Dy. Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
वडोदरा/Vadodara

Note:-This is system generated document does not require physical signature.

Disclaimer : This page gives the latest action taken by this organization on your application. This page is made available for the information of concerned applicant/licensee only. All efforts have been made to secure this information. However, PESO will not be responsible for any misuse of the information by unauthorized persons including the hackers.

भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग, सयाजी गंज
वडोदरा- 390020
8th Floor, Yash Kamal Building, Sayajigunj,
Vadodara - 390020

E-mail : dyccebaroda@explosives.gov.in
Phone/Fax No : 0265 - 2225159

संख्या /No. : P/WB/GJ/15/5600 (P451445)

दिनांक /Dated : 05/10/2021

सेवा में /To,

M/s. Grasim Industries Limited,
Plot No.1, GIDC Vilayat Industrial Estae,,
Vilayat Taluk Vagra,
Vilayat,
Bharuch,
Taluka: Vagra,
District: BHARUCH,
State: Gujarat
PIN: 392140

05 OCT 2021

विषय /Sub : Plot No, Plot No.1, Plot No.1, G.I.D.C Estate, Village Vilayat, Tahsil Vagra, Dist. Bharuch 392012 (Gujarat), India, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392012 में पेट्रोलियम वर्ग A का अधिष्ठापन -अनुज्ञप्ति जारी करने के बारे में ।

Petroleum Class A Installation at **Plot No, Plot No.1, Plot No.1, G.I.D.C Estate, Village Vilayat, Tahsil Vagra, Dist. Bharuch 392012 (Gujarat), India, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392012 Grant of License** regarding.

महोदय /Sir (s),

कृपया आपके पत्र क्रमांक nil दिनांक 05/10/2021 का अवलोकन करें ।

Please refer to your letter No. nil dated 05/10/2021

विषयान्तर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक 31/12/2025 तक वैध अनुज्ञप्ति संख्या P/WB/GJ/15/5600 (P451445) दिनांक 05/10/2021 भेजी जा रही है ।

Licence No. P/WB/GJ/15/5600 (P451445) dated 05/10/2021 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2025 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटर्रों में अनुज्ञप्त क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	1570.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्ना /Petroleum Class C,otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	1570.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें और अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्ती की तारीख या उससे पूर्व **Jt. Chief Controller of Explosives, Vadodara** को प्रेषित करें ।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to **Jt. Chief Controller of Explosives, Vadodara**, so as to reach his office on or before the date on which Licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियो से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नही देती है ।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

((संजय कुमार))
(Sanjay Kumar))
विस्फोटक नियंत्रक
Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
वडोदरा/Vadodara

Copy forwarded to :-
1. The District Magistrate & Collector, BHARUCH(Gujarat) with reference to his NOC No MAG/NOC/WS/9073/9087/9531/2021 Dated 31/08/2021

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : **P/WB/GJ/15/5600(P451445)** फीस रुपए (Fee Rs.) **50000**/- per year

M/s. Grasim Industries Limited, Plot No.1, GIDC Vilayat Industrial Estae,, Vilayat Taluk Vagra, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम **1570.00 KL** आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या **P/WB/GJ/15/5600(P451445)** तारीख **05/10/2021** जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती हैं ।

Licence is hereby granted to **M/s. Grasim Industries Limited, Plot No.1, GIDC Vilayat Industrial Estae,, Vilayat Taluk Vagra, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140** valid only for the importation and storage of **1570.00 KL** Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No **P/WB/GJ/15/5600(P451445)** dated **05/10/2021** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2025** तक प्रवृत रहेगी ।
The Licence shall remain in force till the 31st day of December **2025**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	**1570.00 KL**
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	**NIL**
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	**NIL**
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	**NIL**
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	**NIL**
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	**NIL**
कुल क्षमता /Total Capacity	**1570.00 KL**

October 5, 2021

For Jt. Chief Controller of Explosives
WB, Vadodara
संयुक्त मुख्य विस्फोटक नियंत्रक, वडोदरा
Joint Chief Controller of Explosives, Vadodara

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों में दिखाई गई हैं **Plot No: Plot No.1, Plot No.1, G.I.D.C Estate, Village Vilayat, Tahsil Vagra, Dist. Bharuch 392012 (Gujarat), India, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392012** स्थान पर अवस्थित है तथा उसमें निम्नलिखित **2 Above Ground tank(s) for CLASS A of 785 KL each,** सम्मिलित हैं ।

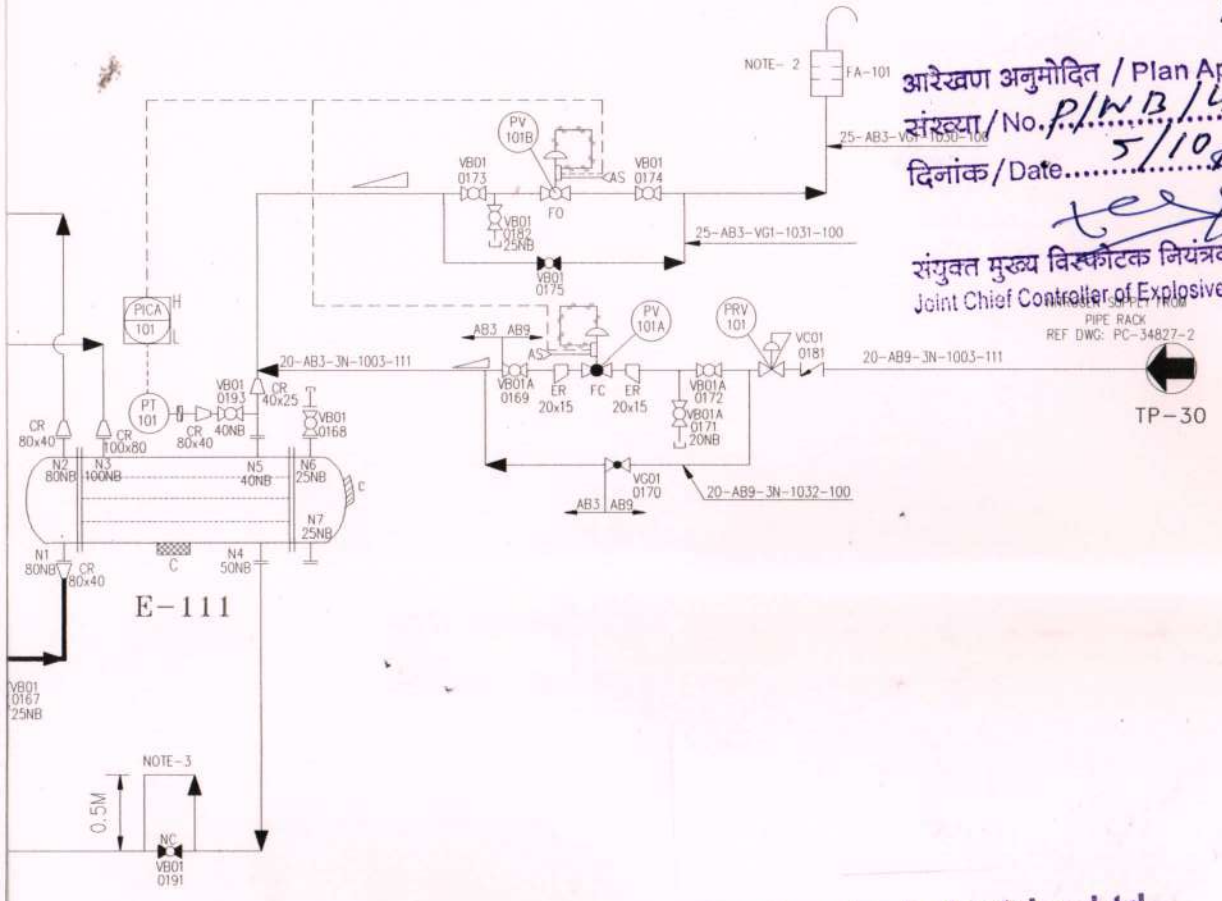
The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at **Plot No: Plot No.1, Plot No.1, G.I.D.C Estate, Village Vilayat, Tahsil Vagra, Dist. Bharuch 392012 (Gujarat), India, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392012** and consists of **2 Above Ground tank(s) for CLASS A of 785 KL each,** together with connected facilities.

Note:-This is system generated document does not require signature.

P/451445

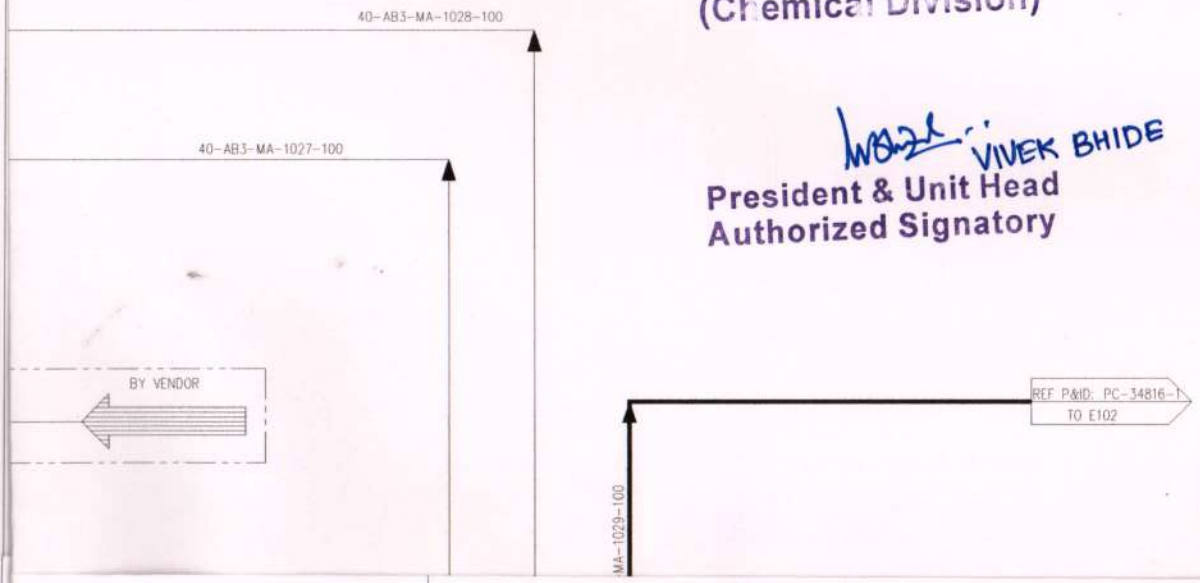
आरेखण अनुमोदित / Plan Approved
संख्या / No. PNB/43/15/5600
दिनांक / Date 5/10/2021

संयुक्त मुख्य विस्फोटक नियंत्रक, वडोदरा
Joint Chief Controller of Explosives, Vadodara



For Grasim Industries Ltd.
(Chemical Division)

VIVEK BHIDE
President & Unit Head
Authorized Signatory



VED FOR CONSTRUCTION

MMENTS INCORPORATED & MARKED AS 2	S.F	RVK
MMENTS INCORPORATED & MARKED AS 1	AB	RVK
PRELIMINARY ISSUE	S.G	GSS
DESCRIPTION	BY.	CHD.

Protech Consultants Pvt. Ltd.,
OFFICE: 173 T.T.K ROAD ALWARPET CHENNAI-600 018

CLIENT : GRASIM INDUSTRIES LIMITED, VILAYAT, BHARUCH (GUJRAT)
PROJECT : HYDROCHLORINATION
ADITYA BIRLA GROUP

TITLE :

P&ID FOR METHANOL STORAGE & HANDLING

	NAME	DATE
DGN.	PCPL	18.01.2019
DRN.	S.GANESAN	18.01.2019
CHD.	GSS	24.01.2019
APPD.	NRP	24.01.2019

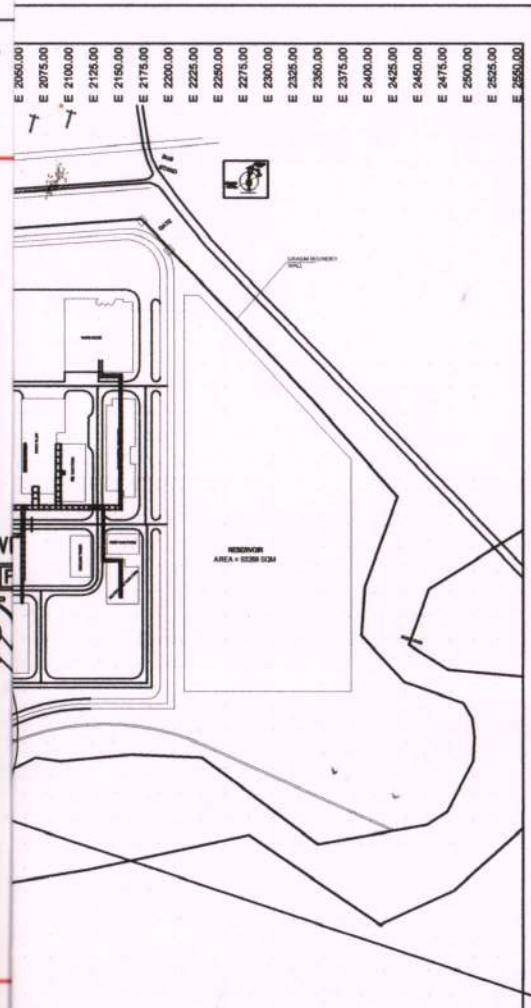
SCALE : NTS JOB NO.: 517

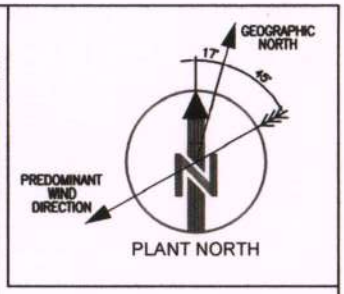
CIVIL	STRUCT.	MECH	PROCESS	ELE.	INS.
			✓		

DRAWING No. PC-34815-1 REV.NO. 2

Z:\Drawings\GRASIM-HYDRO CHLORINATION\1. PROCESS\2.P&ID\PC-34815-1 R2 (P&ID FOR METHANOL STORAGE & HANDLING).dwg

A1 SIZE: 841mm x 594mm





P 451445

आरेखण अनुमोदित / Plan Approved
संख्या / No. P/WB/GJ/15/5600
दिनांक / Date 5/10/2021

संयुक्त मुख्य विस्फोटक नियंत्रक, वडोदरा
Joint Chief Controller of Explosives, Vadodara

RASIM BOUNDARY WALL

REFER DWG: PC-35158-1

PARTIAL PLOT PLAN
FOR BLOWN UP VIEW
(SCALE 1:600)

000m = RL EL+12.500

1.000m = RL EL+11.500

DESCRIPTION	BY.	CHD.
S PER PESO COMMENT	RP/PP	DM
	RP/PP	DM
E-MAIL DATED 26.09.19) INCORPORATED AND REVISION MARKED AS 3	MKK	SP
(VIDE Lr. APPROVAL No. NA (P451445) Dt.27.08.19) INCORPORATED.	MKK	SP
OMMENTS (VIDE E-MAIL DATED 10.06.19) INCORPORATED.	MKK	SP

SIM INDUSTRIES LIMITED.

L DIVISION, VILAYAT, PLOT 1, GIDC VILAYAT INDUSTRIAL ESTATE,
YAT, TALUK: VAGRA, BHARUCH-392130, GUJARAT-INDIA.

NGEMENT FOR
TALLATION OF
TANK - (2 x 826.6 KL)
M CLASS-A)

	NAME	DATE
DGN.	PCPL	04.05.2019
DRN.	MKK	04.05.2019
CHD.	SP	04.05.2019
APPD.	NRP	04.05.2019

SCALE : 1:150 JOB NO.: 517

PROCESS	ELE.	INS.

DRAWING No. PC-35157-1 REV.NO. 5

A1 SIZE: 841mm x 594mm

RO CHLORINATION\2. MECH\PESO\PC-35157-1 R3 METHANOL STORAGE-PESO LAYOUT.dwg

GRASIM INDUSTRIES LTD.
CHEMICAL DIVISION
AUTHORISED SIGNATORY

P 451445

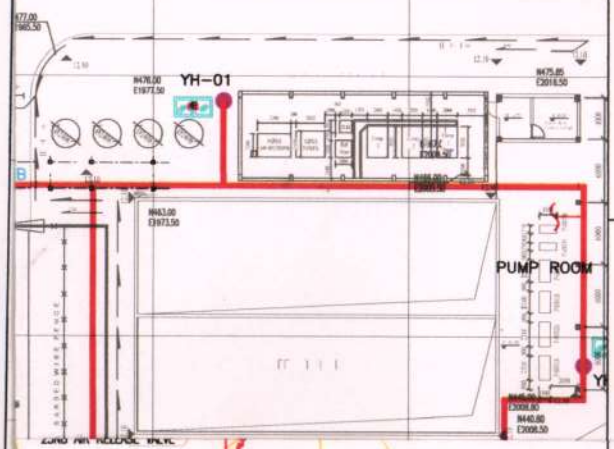
आरेखण अनुमोदित / Plan Approved
संख्या / No. P/W13/42/15/5600
दिनांक / Date 5-10-20

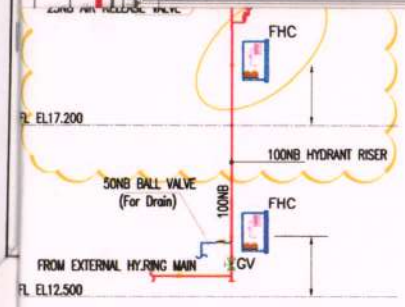
संयुक्त मुख्य विस्फोटक नियंत्रक, वडोदरा
Joint Chief Controller of Explosives, Vadodara

KEYPLAN:

NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
2. EXTERNAL HYDRANT SYSTEM WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH IS:13039.
3. PIPE SHALL BE MS PIPES COMPLYING TO IS:1239 PART–1, HEAVY (UPTO 150NB) CLASS AND IS:3589 FE410(FOR 250NB & ABOVE) AND ASME B16.11(FOE SIZE 40NB & BELOW)
4. PIPE JOINTS:
   A) PIPE SIZES 40NB AND BELOW ARE SOCKET WELDED JOINTS.
   B) PIPE SIZES 50NB AND ABOVE ARE BUTT WELDED JOINTS.
5. ALL FIRE PIPES SHALL BE HYDRO TESTED AT 1.5 TIMES OF WORKING PRESSURE FOR 2 HOURS.
6. ALL ROAD CROSSING SHALL BE PROTECTED WITH HUME PIPE.
7. EXTERNAL HYDRANT SHOULD BE LOCATED AT DISTANCE OF NOT LESS THAN 2M AND MAXIMUM 15M FROM THE FACE OF THE BUILDINGS.
8. HYDRANT VALVES WILL BE SS 63 MM SIZE SINGLE HEADED OBLIQUE TYPE WITH OUTLET ANGLE TOWARDS GROUND.
9. ALL EXTERNAL YARD HYDRANTS WILL BE PROVIDED WITH TWO (2) NOS. RRL HOSE WITH COUPLING (63MM SIZE X 15M LONG) AND ONE (1) NO. BRANCH PIPE WITH NOZZLE (20MM BORE) FOR SINGLE HEADED HYDRANTS, HOSES AND BRANCH PIPE SHALL BE KEPT INSIDE A HOSE BOX.
10. ALL EXPOSED SURFACES OF EQUIPMENT AND PIPING SHALL BE PAINTED WITH TWO COAT OF PRIMER AND TWO COATS OF SYNTHETIC ENAMEL.
11. FOR ABOVE GROUND PIPE, PIPE SUPPORT SHALL BE PROVIDED AT 4.0M INTERVALS.





COMPREHENSIVE BUILDING HYDRANT NO. 11&12

FIRE LEGEND:–

SL.NO.	SYMBOL	DESCRIPTION
01.	——	250NB HYDRANT PIPE (MS 'C' CLASS PIPE)
02.	——	150NB HYDRANT PIPE (MS 'C' CLASS PIPE)
03.	——	100NB HYDRANT PIPE (MS 'C' CLASS PIPE)

CRESCON PROJECTS & SERVICES PVT LTD
Gulecha Towers,No:158,3rd Floor, Arcot Road
Vadapalani
Chennai - 26
TEL : 044 - 23664945, Email : design@candeo.co.in

DRAWING TITLE :-

EXTERNAL FIRE HYDRANT SYSTEM LAYOUT

DRAWN :- VENKATESH	CHECKED :- ALAGARSAMY	APPROVED :- [illegible]
SIGN :-	SIGN :-	SIGN :-
SCALE :- 1:500		
SHOP DWG NO. CPS–SRA–FPS–001		Rev. R5
SHEET NO. 01	CON'T. ON END	Size. A1

NOZZ. PROJ.	R.F. PAD ODxIDxTHK.	REMARKS
	180x90x10THK.	WITH DIP PIPE
	217x117x10THK.	AS SHOWN
	--	AS SHOWN
	180x90x10THK.	
	180x90x10THK.	
	180x90x10THK.	
	--	WITH DIP PIPE
	--	
150	217x117x10THK.	
	180x90x10THK.	WITH DIP PIPE
	180x90x10THK.	
	180x90x10THK.	WITH B/F
	--	
	--	AS SHOWN
	--	
	180x90x10THK.	
300	913x613x10THK.	WITH COVER AND DAVIT
	913x613x10THK.	DELETED 5

13000 TANK HEIGHT

VED

DRAWING NUMBER
PEE-DE-TK-101A/B-M-100
PEE-DE-TK-101A/B-M-101
PEE-DE-TK-101A/B-M-102
PEE-DE-TK-101A/B-M-103
PEE-DE-TK-101A/B-M-104
PEE-DE-TK-101A/B-M-105

DESIGN DATA

DESIGN CODE		API 620 ED. 2013
TAG NO.		TK-101 A/B
MEDIUM		METHYL ALCOHOL (METHANOL)
SP.GRAVITY		0.787
PRESSURE. (mmWC)	OP.	1500
	DES.	(-)150 ~~-2000~~
	TEST	FULL OF WATER
TEMP. °C	OP.	30 / 50
	DES.	70
CORR. ALL.mm.		3.0
RADIOGRAPHY		SHELL : SPOT + ALL 'T' JOINTS
		BOTTOM : FULL
JT. EFFICIENCY		SHELL : 0.85 | BOTTOM : 1.0
STRESS RELEIVING		NIL
VOLUME M^3		ACTUAL : 826.6 | NORMAL : 763
Wt. EMPTY Kg.		~ 41015
Wt. OF INT. Kg		-
OP. WEIGHT Kg.		~ 689615
TEST WEIGHT Kg.		~ 865160
INSPECTION		BY CLIENT/AUTH. REP.
INSULATION		NIL
PAINTING		REFER NOTE NO:-15
QTY. (Nos.)		2 (TWO)

EXTERNAL LOAD DATA:	LOCATION : DAHEJ, GUJARAT, INDIA
WIND LOAD DATA:	SEISMIC DATA:
REFERENCE : IS:875 (PART3) : 1987	REFERENCE : IS:1893
BASIC WIND SPEED : 50 m/sec (10m ABOVE GROUND)	SEISMIC ZONE OF SITE : ZONE III
	SEISMIC COEFFICIENT : AS PER IS:1893

MATERIALS

SHELL		IS:2062 Gr. E250 BR
CONE ROOF		IS:2062 Gr. E250 BR
BOTTOM PLATE		IS:2062 Gr. E250 BR
RAFTER		IS:2062 Gr. E250 A
NOZZLES	PIPE	SA 106 Gr. B
	FLANGE	SA 105
MAN HOLE & COVER	PIPE	IS:2062 Gr. E250 BR
	FLANGE	SA 105
PAD PLATE		SAME AS SHELL
M/H DAVIT (HINGES		IS:2062 Gr. E250 A

p45/445

आरेखण अनुमोदित / Plan Approved
संख्या / No. P/WB/42/15/5600
दिनांक / Date 5-10-2024
संयुक्त मुख्य विस्फोटक नियंत्रक, वडोदरा
Joint Chief Controller of Explosives, Vadodara

OFFICE: 173, T.T.K ROAD ALWARPET MADRAS-600 018

MANUFACTURER :-

KAYPEE

KAYPEE MECHANICAL INDIA PVT. LTD.
BHARUCH-392002

DRAWN	HBS	TITLE:- GENERAL ASSEMBLY AND DETAILS FOR METHANOL STORAGE TANK ((TK-101 A/B))		
CHECKED	ABS			
APPROVED	ABS			
DATE	30.08.2019	TAG.NO. : (TK-101 A/B)	INSP.BY: BY CLIENT/TPI	
SCALE	NTS	PROJECT : HYDROCHLORINATION		
QTY.	2 Nos.	REF.PO NO: 7220000294 DT:02/08/2019		
REF. DATA SHEET. No.		KAYPEE JOB No.: 101		
PC-34898-1 REV.2		VENDOR DRAWING No. KAYPEE-DE-TK-101A-B-M-101	SHEET No. 1 OF 1	REV. No. 5

DETAIL ENGINEERING:- KALKANCUTECH ENGINEERING

भारत सरकार/Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग, सयाजी गंज
वडोदरा- 390020
8th Floor, Yash Kamal Building, Sayajigunj,
Vadodara - 390020

ई-मेल:/E-mail :
dyccebaroda@explosives.gov.in
फोन / फ़ैक्स नंबर:/Phone/Fax No : **0265 - 2225159**

अनुज्ञप्ति सं./No : S/HO/GJ/03/1445(S52646) दिनांक/Dated : **02/09/2022**

सेवा में/To,

M/s. Grasim Industries Limited,
Plot No.1, GIDC Vilayat Industrial Estae,,
Vilayat Taluk Vagra,
Vilayat,
Bharuch,
Taluka: Vagra,
District: BHARUCH,
State: Gujarat
PIN: 392140

विषय :/Sub : Plot No, 1, GIDC Industrial Estate, Vilayat Taluk Vagra, Bharuch, Taluka: Bharuch, District: BHARUCH, State: Gujarat, PIN: 392140 स्थित CHLORINE, गैस के संपीडित पात्र / पात्रों में भंडारण के लिए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 के अधीन स्वीकृत अनुज्ञप्ति संख्या S/HO/GJ/03/1445 के नवीनीकरण संबंध में /Storage of NCHLORINE gas in pressure vessels at Plot No, 1, GIDC Industrial Estate, Vilayat Taluk Vagra, Bharuch, Taluka: Bharuch, District: BHARUCH, State: Gujarat, PIN: 392140 - Licence No : S/HO/GJ/03/1445 grant in form LS-1A of SMPV(U) Rules, 2016-Renewal of Licence Regarding

महोदय/Sir(s),

कृपया आपके दिनांक : 02/09/2022 के पत्र संख्या: **NIL** का संदर्भ ग्रहण करें ।/Please refer to your application No.**NIL** dated 02/09/2022 .

अनुज्ञप्ति संख्या : **S/HO/GJ/03/1445** का नवीकरण दिनांक 30th सितंबर 2027 तक कर इसके साथ अग्रेषित की जा रही हैं ।
Licence Number: **S/HO/GJ/03/1445** is renewed and is valid upto **30th September 2027** is forwarded herwith.

दिनांक 30/09/**2027** . से आगे अनुज्ञप्ति नवीनीकरण हेतु उपरोक्त नियम के नियम 55 के प्रावधानों का पालन किया जाएं । विलंब शुल्क से बचने हेतु शुल्क के साथ मूल अनुज्ञप्ति तथा अन्य दस्तावेज अधिकतम दिनांक : 30 सितंबर, **2027** तक **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara** में जरूर पहुंच जाने चाहिए ।
The provisions of the Rule 55 of the above said rules shall be followed for further renewal of the licence beyond 30/9/**2027**. The renewal application along with fees, Original licence and other documents shall reach in the Office of **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara**, latest by 30th September,**2027** to avoid late fee.

कृपया अनुज्ञप्ति प्राप्ति की पावती दें ।/Please acknowledge the receipt of the licence.

भवदीय/Yours faithfully,

((गणेश आर.)
(GANESH R.))
उप विस्फोटक नियंत्रक
Dy. Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
वडोदरा/Vadodara

(For more information regarding status,fees and other details please visit our website http://peso.gov.in)

Note:-This is system generated document does not require physical signature.

भारत सरकार /Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन /Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग,सयाजी गंज
वडोदरा - 390020
8th Floor, Yash Kamal Building, Sayajigunj, Vadodara - 390020

इमेल /E-mail : dyccebaroda@explosives.gov.in
दूरभाष /Phone/Fax No : 0265 - 2225159

सं/No : G/HO/GJ/05/733 & G/HO/GJ/06/724(G31658)

दि/Dated : 07/10/2019

सेवा में /To,

M/s. Grasim Industries Limited,
Plot NO 1 GIDC Vilayat Industrial Estate,,
Taluka Vagra
Vilayat,
District: BHARUCH
State: Gujarat
Pin : 392140

07 OCT 2019

विषय/Sub : Plot No, 1& 2 Survey No 357 Paiky, GIDC Industrial Estate Taluka Vagra, VILAYAT, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 999999में सिलण्डररों में CHLORINE गैस का भरण-एवं भण्डा5रण गोडाउन- गैस सिलेण्ड,र्स नियम, 2016 के अंतर्गत फार्म 'इ' एवं 'एफ' में जारी अनुज्ञप्ति सं. G/HO/GJ/05/733 & G/HO/GJ/06/724(G31658) नवीकरण के बारे में / Filling of CHLORINE and Storage of CHLORINE at Plot No, 1& 2 Survey No 357 Paiky, GIDC Industrial Estate Taluka Vagra, VILAYAT, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 999999 Licence No. G/HO/GJ/05/733 & G/HO/GJ/06/724(G31658) granted in Form E & F of Gas Cylinders Rules, 2016 - Renewal regarding

महोदय/Sir (s),

कृपया आपके दि. 03/09/2019 के पत्र सं. OIN343258 का संदर्भ ग्रहण करें/ Please refer to your application No.OIN343258 dated 03/09/2019 .

अनुज्ञप्ति संख्या G/HO/GJ/05/733 & G/HO/GJ/06/724 30th Septemebr, 2028 तक नवीनीकृत कर भेजी जा रही है / Licence Number: G/HO/GJ/05/733 & G/HO/GJ/06/724 is renewed and valid upto 30th Septemebr, 2028 is forwarded herewith.

कृपया नोट करें कि गैस सिलेण्डर नियम, 2016 के नियम 55(5) के अनुसार, अनुज्ञप्ति के पुनः नवीकरण हेतु आवेदन The Dy. Chief Controller of Explosives, Vadodara इस कार्यालय को इस अनुज्ञप्ति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर2028 को या इससे पूर्व) जमा कर दें । दिनांक 30 सितम्बर 2028 के पश्चात परंतु दिनांक 30 सितम्बर 2029 से पूर्व प्राप्त नवीनीकरण आवेदन, गैस सिलेण्डर नियम, 2016 के नियम 55(7) के अनुसार विलंब शुल्क के साथ ही विचाराधीन होगा । दिनांक 30 सितम्बर 2029 तक कोई नवीनीकरण आवेदन प्राप्त नही होने की स्थिति में यह अनुज्ञप्ति स्वतः निरस्त हो जाएगी । /Please note that application for renewal of the licence should be submitted so as to reach the The Dy. Chief Controller of Explosives, Vadodara before the licence expires (i.e. on or before 30th Septemebr, 2028) as required under Rule 55(5) of Gas Cylinders Rules, 2016. Application for renewal of licence received after 30th Septemebr, 2028 but not later than 30th September, 2029 shall be considered only with late fee applicable vide Rule 55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th Septemebr, 2029 .

कृपया इस पत्र की प्राप्ति की पावती दें/ Please acknowledge the receipt of the same.

Note : Your Balance Amount with the Organisation is Rs.7000, which will be used for processing of the same Licence in future.

भवदीय /Yours faithfully,

((संजय कुमार)
(Sanjay Kumar))
विस्फोटक नियंत्रक
Controller of Explosives
कृते उप मुख्य विस्फोटक नियंत्रक
For Dy. Chief Controller of Explosives
वडोदरा/Vadodara

[अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए कृपया हमारी वेबसाइट http://peso.gov.in देखें ।]
(For more information regarding status,fees and other details please visit our website http://peso.gov.in)

फार्म ई /FORM E

नियम 50,51 और 54 देखें /(See Rules 50, 51 and 54)

सिलेंडरों में संपीड़ित गैस भरने के लिए अनुज्ञप्ति / Licence to fill compressed gas in cylinders

अनुज्ञप्ति संख्यास/ Licence No. : **G/HO/GJ/05/733(G31658)** वार्षिक शुल्का रू/ Fee Rs.**5000/-** per year

M/s. Grasim Industries Limited, Plot NO 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140 , को नीचे वर्णित और रेखांक संख्या **G/HO/GJ/05/733(G31658)** dated **13/03/2013** में दर्शित किए गए अनुज्ञप्त परिसर में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुज्ञप्ति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेण्डरों को रखने के लिए ही विधिमान्य अनुज्ञप्ति दी जाती है। / Licence is hereby granted to **M/s. Grasim Industries Limited, Plot NO 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140** valid only for the filling of cylinders with compressed gas in the licensed premises described below and shown in the plan No. **G/HO/GJ/05/733(G31658)** dated **13/03/2013** subject to the provisions of the Explosives Act, 1884(4 of 1884) and the rules made thereunder and to the further conditions of this licence.

यह अनुज्ञप्ति 30 सितम्बर **2028** तक प्रवृत्त रहेगी । / The Licence shall remain in force till the **30th September 2028.**

For Chief Controller of Explosives
Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

March 13, 2013

1)Amendment dated - 18/09/2018

अनुज्ञप्त परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेण्डरों में गैस भरने के लिए अनुज्ञप्त परिसर, जिसकी अभिन्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं. **G/HO/GJ/05/733** dated **March 13, 2013** में दिखाया गया है, **VILAYAT** में अवस्थित है और जिसमें अन्य सुविधाओं से जोडे गए **CHLORINE - 28 Nos. (2x9+10)** फिलिंग पॉइन्ट्स है । / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No **G/HO/GJ/05/733** dated **March 13, 2013** are situated at **VILAYAT** and consists of **CHLORINE - 28 Nos.(2x9+10)** filling points with connected other fecilities for filling of the gas(es) in cylinders as described here under:

	गैस का प्रकार Type of Gas	मात्रा /Quantity
a)	विषैले/ Toxic	CHLORINE
b)	गैर विषैले और गैर ज्वलनशील /Non-Toxic and Non Flammable	--NIL--
c)	गैर विषैले और ज्वलनशील /Non-Toxic and Flammable	--NIL--
d)	घुलित एसिटिलीन गैस /Dissolved Acetylene Gas	--NIL--
e)	एलपीजी के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	--NIL--
f)	एलपीजी/ Liquefied Pertoleum Gas	--NIL--

और प्लाट संख्या PlotNo :**1& 2 Survey No 357 Paiky गली का नाम : GIDC Industrial Estate Taluka Vagra गांव : VILAYAT पुलिस थाना : Vagra जिला :BHARUCH राज्य: Gujarat. /and is situated at PlotNo :1& 2 Survey No 357 Paiky Name of Street :GIDC Industrial Estate Taluka Vagra Village/Town :VILAYAT Police Station : Vagra District : BHARUCH, State: Gujarat.**

नवीकरण के पृष्ठांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

	नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुज्ञप्ति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
इस अनुज्ञप्ति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेण्डर नियम, 2016 के उपबंधों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई छूट दिए बिना दस वर्ष तक नवीकृत किया जाएगा । /This licence shall be renewable without any concession in fee for ten years in the absence of contravention of the provision of the Explosives Act, 1884, or Gas Cylinders Rules, 2016, framed thereunder or of the conditions of the licence	**07/10/2019**	**30/09/2028**	**Sanjay Kumar** **CE** **For Dy. Chief Controller of Explosives** **Vadodara** उप मुख्य विस्फोटक नियंत्रक, वडोदरा Dy. Chief Controller of Explosives, Vadodara

यदि अनुज्ञप्त परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति दी गई है, उनमे से किसी का उल्लंघन होता है तो यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा । / This licence is liable to be cancelled if the licenced premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.

अनुज्ञप्ति की शर्त संख्या 8 में निहित कुछ भी होते हुए, सूर्यास्त और सूर्योदय के भीतर, निम्न शर्तों के अधीन, सिलेंडर भरण की अनुमति दी जाती है।/ Notwithstanding anything contained in condition No. 8 of the Licence filling of cylinders within hours of sunset and sunrise is permitted subject to the following conditions.

फार्म फ /FORM F
नियम 50,51 और 54 देखें /(See Rules 50, 51 and 54)
Licence to store compressed gas in cylinders

अनुज्ञप्ति संख्या/ Licence No. : **G/HO/GJ/06/724(G31658)**

वार्षिक शुल्का रू/Fee Rs. **12000/-** per year

M/s. Grasim Industries Limited, Plot NO 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140 को नीचे वर्णित और रेखांक संख्या **G/HO/GJ/06/724(G31658)** dated **13/03/2013** में दर्शित किए गए अनुज्ञप्त परिसर में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुज्ञप्ति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेण्डरों को रखने के लिए ही विधिमान्य अनुज्ञप्ति दी जाती है। /
Licence is hereby granted to **M/s. Grasim Industries Limited, Plot NO 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140** valid only for the possession of cylinders filled with compressed gas in the licensed premises described below and shown in the plan No **G/HO/GJ/06/724(G31658)** dated **13/03/2013** subject to the provisions of the Explosives Act, 1884(4 of 1884) and the Rules made thereunder and to the further conditions of this licence.

यह अनुज्ञप्ति 30 सितम्बर 2028 तक प्रवृत रहेगी । / The Licence shall remain in force till the **30th September 2028.**

For Chief Controller of Explosives
Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

March 13, 2013

अनुज्ञप्त परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेण्डरों में भरी गैस रखने के लिए अनुज्ञप्त परिसर, जिसकी अभिन्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं **G/HO/GJ/06/724** dated **March 13, 2013** में दिखाया गया है, में अवस्थित है और जिसमें एक भण्डारण शेड है। / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. **G/HO/GJ/06/724** dated **March 13, 2013** are situated at **VILAYAT** and consists of a storage shed for possession of the gas contained in cylinders as described here under:

	गैस का प्रकार /Type of Gas	मात्रा /Quantity
a)	विषैले/ Toxic	CHLORINE - 1191 Nos.
b)	गैर विषैले और गैर ज्वलनशील /Non-Toxic and Non Flammable	--NIL--
c)	गैर विषैले और ज्वलनशील /Non-Toxic and Flammable	--NIL--
d)	घुलित एसिटिलीन गैस /Dissolved Acetylene Gas	--NIL--
e)	एलपीजी के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	--NIL--
f)	एलपीजी/ Liquefied Pertoleum Gas	--NIL--

और प्लाट संख्या PlotNo : **1& 2 Survey No 357 Paiky** गली का नाम गांव : **VILAYAT** या नगर पुलिस थाना : **Vagra** जिला : **BHARUCH**,राज्य : **Gujarat**.
/ and is situated at PlotNo : **1& 2 Survey No 357 Paiky** Village/Town :**VILAYAT** Police Station : **Vagra** District : **BHARUCH**, State: **Gujarat**.

नवीकरण के पृष्ठांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

	नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुज्ञप्ति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
इस अनुज्ञप्ति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेण्डर नियम, 2016 के उपबंधों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई छूट दिए बिना दस वर्ष तक नवीकृत किया जाएगा ।/This licence shall be renewable without any concession in fee for ten years in the absence of contravention of the provision of the Explosives Act,1884 or Gas Cylinders Rules, 2016, framed thereunder or of the conditions of the licence	**07/10/2019**	**30/09/2028**	**Sanjay Kumar** **CE** **For Dy. Chief Controller of Explosives** **Vadodara** उप मुख्य विस्फोटक नियंत्रक, वडोदरा Dy. Chief Controller of Explosives, Vadodara

यदि अनुज्ञप्त परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति दी गई है, उनमे से किसी का उल्लंघन होता है तो यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा । / This licence is liable to be cancelled if the licenced promises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.

Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
9th Floor, Park Paradise, Vadsar,
Vadodara - 390012

E-mail : **jtcce.vadodara@explosives.gov.in**
Phone/Fax No : **0265 - 2361035**

No : A/G/WC/GJ/GCT/11(G58778) Dated : **18/10/2023**

To,

M/s. Grasim Industries Limited,
Plot No.1, GIDC Vilayat Industrial Estae,,,
Vilayat Taluk Vagra
Vilayat,
Bharuch,
Taluka: Vagra,
District: BHARUCH
State: Gujarat
Pin : 392140

Sub : Periodical Examination and testing of **CHLORINE,CHLORINE,CHLORINE,CHLORINE,CHLORINE,CHLORINE , Seamless,Seamless,Seamless,Seamless,Seamless,Seamless** cylinders at **Plot No, plot no. 1 , GIDC Industrial Estate, Vagra, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 392012.**Renewal under Gas Cylinders Rules, 2016 regarding.

Sir(s),

Please refer to the inspection of your works by an office of the office of the on .

There is no objection to your carrying out periodic examination and testing of **CHLORINE,CHLORINE,CHLORINE,CHLORINE,CHLORINE,CHLORINE , Seamless,Seamless,Seamless,Seamless,Seamless,Seamless** cyliners in your above mentioned container testing station subject to the obsevance of the following conditions:

1.The degassing of the contents shall be done at the place approved by this office.The cylinders shall be fully degassed till they show zero reading for the absence of the flammable gas when tested with Explosives meter before subjecting the cylinders for testing.

2.Not more than five cylinders shall be degassed at a time.

3.The degassing and testing of cylinders shall be carried out only during daylight hours.

4.The examination and testing of cylinders shall be carried out only under continuous supervision of qualified and experinaced pesonnel.

5.The Cylinders,which are approved for filling in writing by CCE office ,shall only be undertaken for periodic examination/Testing.

6.All provisions of the relevant Indian standard code of practice for cylinders inclusive visual inspection shall ebe observed.

7.CNG-ONB cylinders shall be subjected to Ultrasonic flaw detection test as per Annex D to IS:15490:2004.

8.The cylinders passed in the periodical examination and testing shall be marked with the code mark of the testing station and other relevant information as required under rule 6 of the Gas cylinders Rules,2016.The due date for next test or the the date of expiry of service life of the cylinder, as the case may be,shall be clerly marked on the stainless steel ring inserted between the valve and the neck of the cylinders.

9.The quality management system of the testing station shall be covered under ISO:9001 certification from BIS or any other internationally reputed certifying agency with the accrediation with NABCB(Indian Acrediation Body)with in six months.

10.The requirements of Provisions of Rule 35 of the said rules shall be followed and records of test and examination of Cylinders shall be maintained for the service life of the Cylinders.The data record maintainanace system shall be fully computerised .

11.The cylinders found unserviceable (Service life expired and failed in tests) shall be condemned as required under rule 36 of the said rules,and records there of shall be furnished to this office on the 1st of January,April,July and October every year.

12.No change in the organisational set up and machinery of testing station shall be effected without obtaining approval of this office.

13.The other relevant provisions of the said rules are complied with.

The approval may be reviewed,ammended or withdrawn at any time.if considered necessary in the intrest of safety or if any of the conditions mentioned above is violated or not complied with.

This permission is valid for the period upto **30/09/2032** date which may be extended further on submission of performance report, Renewal fee and ISO Certificate on or before the expiry of this approval.

The approval Accorded under rule 35 of the gas Cylinders Rule,2016 does not absolve you from obtaining necessary permission/clearance under other statutes/local Regulations,if any applicable for setting up and operation of a cylinder testing Station,which please be noted.

SPACE FOR ENDORSEMENT OF RENEWALS

	Date of Renewal	Date of Expiry	Signature and stamp of the licensing authority
This licence shall be renewable without any concession in fee for ten years in the absence of contravention of the provision of the Explosives Act, 1884, or Gas Cylinders Rules, 2016,framed there under or of the conditions of the licence	**18/10/2023**	**30/09/2032**	**Dr. R.Venugopal JCCE For Jt. Chief Controller of Explosives Vadodara**

Yours faithfully,

(Dr. R.Venugopal)
Jt. Chief Controller of Explosives
Vadodara

Copy together with a copy of approved drawing is forwarded to .With referance to his Memo Number:_____

Note:-This is system generated document does not require physical signature.

Digitally signed by DR R VENUGOPAL
Reason: Licence No. : A/G/WC/GJ/GCT/11
Location:Vadodara [G58778]
Date:18-10-2023 15:55:58 PM

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : **P/HQ/GJ/15/5344(P296022)** फीस रूपए (Fee Rs.) **23500**/- per year

M/s. Grasim Industries Limited, Plot No. 1, G.I.D.C. Vilayat Industrial Estate, P.O. Vilayat, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम **420.00 KL** आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या **P/HQ/GJ/15/5344(P296022)** तारीख **30/09/2019** जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती हैं ।

Licence is hereby granted to **M/s. Grasim Industries Limited, Plot No. 1, G.I.D.C. Vilayat Industrial Estate, P.O. Vilayat, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140** valid only for the importation and storage of **420.00 KL** Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No **P/HQ/GJ/15/5344(P296022)** dated **30/09/2019** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2033** तक प्रवृत रहेगी ।
The Licence shall remain in force till the 31st day of December **2033**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	**NIL**
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	**NIL**
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	**420.00 KL**
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	**NIL**
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	**NIL**
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	**NIL**
कुल क्षमता /Total Capacity	**420.00 KL**

July 2, 2014

For Chief Controller of Explosives
HQ, Nagpur

1). Amendment dated - 30/09/2019

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शेी में दिखाई गई हैं **Plot No: 1 , G.I.D.C. Vilayat Industrial Estate, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140** स्थान पर अवस्थित है तथा उसमें निम्नलिखित **Three aboveground Petroleum Class B storage tanks together with connected facilities.** सम्मिलित हैं |

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at **Plot No: 1 , G.I.D.C. Vilayat Industrial Estate, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140** and consists of **Three aboveground Petroleum Class B storage tanks together with connected facilities.** together with connected facilities.

Note:-This is system generated document does not require signature.

Digitally signed by DR R VENUGOPAL
Reason: Licence No. : P/HQ/GJ/15/5344
Location:Vadodara [P296022]
Date:06-10-2023 18:41:02 PM

भारत सरकार /Government of India
वाणिज्य और उद्योग मत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन /Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग,सयाजी गंज
वडोदरा - 390020
8th Floor, Yash Kamal Building, Sayajigunj, Vadodara - 390020

इमेल /E-mail : dyccebaroda@explosives.gov.in
दूरभाष /Phone/Fax No : 0265 - 2225159

सं/No : G/HO/GJ/05/738 & G/HO/GJ/06/728(G31657)

दि/Dated : 07/10/2019

सेवा में /To,

M/s. Grasim Industries Limited,
Plot No 1 GIDC Vilayat Industrial Estate,,
Taluka Vagra
Vilayat,
District: BHARUCH
State: Gujarat
Pin : 392140

09 OCT 2019

विषय/Sub : Plot No, 1, GIDC Industrial Estate Taluka Vagra, Vilayat, , District: BHARUCH, State: Gujarat, Pin : 999999में सिलण्डररों में HYDROGEN गैस का भरण-एवं भण्डा5रण गोडाउन- गैस सिलेण्ड,र्स नियम, 2016 के अंतर्गत फार्म 'इ' एवं 'एफ' में जारी अनुज्ञप्ति सं. G/HO/GJ/05/738 & G/HO/GJ/06/728(G31657) नवीकरण के बारे में / Filling of HYDROGEN and Storage of HYDROGEN at Plot No, 1, GIDC Industrial Estate Taluka Vagra, Vilayat, , District: BHARUCH, State: Gujarat, Pin : 999999 Licence No. G/HO/GJ/05/738 & G/HO/GJ/06/728 (G31657) granted in Form E & F of Gas Cylinders Rules, 2016 - Renewal regarding

महोदय/Sir (s),

कृपया आपके दि. 05/09/2019 के पत्र सं. nil का संदर्भ ग्रहण करें/ Please refer to your application No.nil dated 05/09/2019 .

अनुज्ञप्ति संख्या G/HO/GJ/05/738 & G/HO/GJ/06/728 30th Septemebr, 2029 तक नवीनीकृत कर भेजी जा रही है / Licence Number G/HO/GJ/05/738 & G/HO/GJ/06/728 is renewed and valid upto 30th Septemebr, 2029 is forwarded herewith.

कृपया नोट करें कि गैस सिलेण्डर नियम, 2016 के नियम 55(5) के अनुसार, अनुज्ञप्ति के पुनः नवीकरण हेतु आवेदन The Dy. Chief Controller of Explosives, Vadodara इस कार्यालय को इस अनुज्ञप्ति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर2029 को या इससे पूर्व) जमा कर दें । दिनांक 30 सितम्बर 2029 के पश्चात परंतु दिनांक 30 सितम्बर 2030 से पूर्व प्राप्त नवीनीकरण आवेदन, गैस सिलेण्डर नियम, 2016 के नियम 55(7) के अनुसार विलंब शुल्क के साथ ही विचाराधीन होगा । दिनांक 30 सितम्बर 2030 तक कोई नवीनीकरण आवेदन प्राप्त नही होने की स्थिति में यह अनुज्ञप्ति स्वतः निरस्त हो जाएगी । /Please note that application for renewal of the licence should be submitted so as to reach the The Dy. Chief Controller of Explosives, Vadodara before the licence expires (i.e. on or before 30th Septemebr, 2029) as required under Rule 55(5) of Gas Cylinders Rules, 2016. Application for renewal of licence received after 30th Septemebr, 2029 but not later than 30th September, 2030 shall be considered only with late fee applicable vide Rule 55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th Septemebr, 2030 .

कृपया इस पत्र को प्राप्ति की पावती दें/ Please acknowledge the receipt of the same.

भवदीय /Yours faithfully,

((संजय कुमार)
(Sanjay Kumar))
विस्फोटक नियंत्रक
Controller of Explosives
कृते उप मुख्य विस्फोटक नियंत्रक
For Dy. Chief Controller of Explosives
वडोदरा/Vadodara

[अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्यe विवरण के लिए कृपया हमारी वेबसाइट http://peso.gov.in देखें ।]
(For more information regarding status,fees and other details please visit our website http://peso.gov.in)

फार्म ई /FORM E

नियम 50,51 और 54 देखें /(See Rules 50, 51 and 54)

सिलेंडरों में संपीड़ित गैस भरने के लिए अनुज्ञप्ति / Licence to fill compressed gas in cylinders

अनुज्ञप्ति संख्यांक/ Licence No. : **G/HO/GJ/05/738(G31657)** वार्षिक शुल्क रु/ Fee Rs.**5000/-** per year

M/s. Grasim Industries Limited, Plot No 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140 को नीचे वर्णित और रेखांक संख्या **G/HO/GJ/05/738(G31657)** dated **14/05/2013** में दर्शित किए गए अनुज्ञप्त परिसर में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुज्ञप्ति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेण्डरों को रखने के लिए ही विधिमान्य अनुज्ञप्ति दी जाती है। / Licence is hereby granted to **M/s. Grasim Industries Limited, Plot No 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140** valid only for the filling of cylinders with compressed gas in the licensed premises described below and shown in the plan No. **G/HO/GJ/05/738(G31657)** dated **14/05/2013** subject to the provisions of the Explosives Act, 1884(4 of 1884) and the rules made thereunder and to the further conditions of this licence.

यह अनुज्ञप्ति 30 सितम्बर **2029** तक प्रवृत्त रहेगी । / The Licence shall remain in force till the **30th September 2029.**

For Chief Controller of Explosives
Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

May 14, 2013

1)Amendment dated - 18/10/2018

अनुज्ञप्त परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेण्डरों में गैस भरने के लिए अनुज्ञप्त परिसर, जिसकी अभिन्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं. **G/HO/GJ/05/738** dated **May 14, 2013** में दिखाया गया है,| **Vilayat** में अवस्थित है और जिसमें अन्य सुविधाओं से जोड़े गए **HYDROGEN - 8 Nos.(8x1)** फिलिंग पॉइन्ट्स है । / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No **G/HO/GJ/05/738** dated **May 14, 2013** are situated at **Vilayat** and consists of **HYDROGEN - 8 Nos.(8x1)** filling points with connected other fecilities for filling of the gas(es) in cylinders as described here under:

	गैस का प्रकार Type of Gas	मात्रा /Quantity
a)	विषैले/ Toxic	--NIL--
b)	गैर विषैले और गैर ज्वलनशील, /Non-Toxic and Non Flammable	--NIL--
c)	गैर विषैले और ज्वलनशील /Non-Toxic and Flammable	HYDROGEN
d)	घुलित एसिटिलीन गैस /Dissolved Acetylene Gas	--NIL--
e)	एलपीजी के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	--NIL--
f)	एलपीजी/ Liquefied Pertoleum Gas	--NIL--

और प्लाट संख्या PlotNo :**1 गली का नाम : GIDC Industrial Estate Taluka Vagra गांव : Vilayat पुलिस थाना : जिला :BHARUCH राज्य: Gujarat. /and is situated at PlotNo :1 Name of Street :GIDC Industrial Estate Taluka Vagra Village/Town :Vilayat Police Station : District : BHARUCH, State: Gujarat.**

नवीकरण के पृष्ठांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

	नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुज्ञप्ति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
इस अनुज्ञप्ति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेण्डर नियम, 2016 के उपबंधों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई छूट दिए बिना दस वर्ष तक नवीकृत किया जाएगा । /This licence shall be renewable without any concession in fee for ten years in the absence of contravention of the provision of the Explosives Act, 1884, or Gas Cylinders Rules, 2016, framed thereunder or of the conditions of the licence	**07/10/2019**	**30/09/2029**	**Sanjay Kumar** **CE** **For Dy. Chief Controller of Explosives** **Vadodara** Dy. Chief Controller of Explosives, Vadodara

यदि अनुज्ञप्त परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति दी गई है, उनमे से किसी का उल्लंघन होता है तो यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा । / This licence is liable to be cancelled if the licenced premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.

अनुज्ञप्ति की शर्त संख्या 8 में निहित कुछ भी होते हुए, सूर्यास्त और सूर्योदय के भीतर, निम्न शर्तों के अधीन, सिलेंडर भरण की अनुमति दी जाती है।/ Notwithstanding anything contained in condition No. 8 of the Licence filling of cylinders within hours of sunset and sunrise is permitted subject to the following conditions.

1. सभी ऑपरेशन एक सक्षम व्यक्ति के पर्यवेक्षण में किए जाने चाहिए।/All operation should be carried out under supervision of a competant person.
2. पर्याप्त प्रकाश व्यवस्था प्रदान की जाएगी।/ Adequate lighting are provided.
3. सूर्यास्त और सूर्योदय के दौरान सिलेंडरों का प्रेषण नहीं किया जाएगा।/Cylinders are not dispatched during sunset and sunrise.;

सत्यमेव जयते

फार्म फ /FORM F

नियम 50,51 और 54 देखें /(See Rules 50, 51 and 54)

Licence to store compressed gas in cylinders

अनुज्ञप्ति संख्या/ Licence No. : **G/HO/GJ/06/728(G31657)** वार्षिक शुल्क रु/Fee Rs. **4000**/- per year

M/s. Grasim Industries Limited, Plot No 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140 को नीचे वर्णित और रेखांक संख्या **G/HO/GJ/06/728(G31657)** dated **14/05/2013** में दर्शित किए गए अनुज्ञप्त परिसर में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुज्ञप्ति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेण्डरों को रखने के लिए ही विधिमान्य अनुज्ञप्ति दी जाती है। /

Licence is hereby granted to **M/s. Grasim Industries Limited, Plot No 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140** valid only for the possession of cylinders filled with compressed gas in the licensed premises described below and shown in the plan No **G/HO/GJ/06/728(G31657)** dated **14/05/2013** subject to the provisions of the Explosives Act, 1884(4 of 1884) and the Rules made thereunder and to the further conditions of this licence.

यह अनुज्ञप्ति 30 सितम्बर 2029 तक प्रवृत रहेगी । / The Licence shall remain in force till the **30th September 2029.**

For Chief Controller of Explosives
Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

May 14, 2013

अनुज्ञप्त परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेण्डरों में भरी गैस रखने के लिए अनुज्ञप्त परिसर, जिसकी अभिन्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं **G/HO/GJ/06/728** dated **May 14, 2013** में दिखाया गया है, में अवस्थित है और जिसमें एक भण्डारण शेड है। / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. **G/HO/GJ/06/728** dated **May 14, 2013** are situated at **Vilayat** and consists of a storage shed for possession of the gas contained in cylinders as described here under:

	गैस का प्रकार /Type of Gas	मात्रा /Quantity
a)	विषैले/ Toxic	--NIL--
b)	गैर विषैले और गैर ज्वलनशील /Non-Toxic and Non Flammable	--NIL--
c)	गैर विषैले और ज्वलनशील /Non-Toxic and Flammable	HYDROGEN - 360 Nos.
d)	घुलित एसिटिलीन गैस /Dissolved Acetylene Gas	--NIL--
e)	एलपीजी के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	--NIL--
f)	एलपीजी/ Liquefied Pertoleum Gas	--NIL--

और प्लाट संख्या PlotNo : **1** गली का नाम गांव : **Vilayat** या नगर पुलिस थाना : जिला : **BHARUCH**,राज्या : **Gujarat**. / and is situated at PlotNo : **1** Village/Town :**Vilayat** Police Station : District : **BHARUCH**, State: **Gujarat**.

नवीकरण के पृष्ठांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

	नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुज्ञप्ति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
इस अनुज्ञप्ति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेण्डर नियम, 2016 के उपबंधों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई छूट दिए बिना दस वर्ष तक नवीकृत किया जाएगा ।/This licence shall be renewable without any concession in fee for ten years in the absence of contravention of the provision of the Explosives Act,1884 or Gas Cylinders Rules, 2016, framed thereunder or of the conditions of the licence	**07/10/2019**	**30/09/2029**	**Sanjay Kumar** **CE** **For Dy. Chief Controller of Explosives** **Vadodara** उप मुख्य विस्फोटक नियंत्रक, वडोदरा Dy. Chief Controller of Explosives, Vadodara

यदि अनुज्ञप्त परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति दी गई है, उनमे से किसी का उल्लंघन होता है तो यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा । / This licence is liable to be cancelled if the licenced premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.

भारत सरकार /Government of India
वाणिज्य और उद्योग मंत्रालय /Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
पाँचवा तल, ए-ब्लाक, सी.जी.ओ.कॉम्प्लेक्स,सेमिनरी हिल्स
नागपुर - 440006
5th Floor, A-Block, CGO Complex, Seminary Hills, Nagpur - 440006

इमेल /E-mail : **explosives@explosives.gov.in**
दूरभाष /Phone/Fax No : **0712 -2510248, Fax-2510577**

सं/No : G/HO/GJ/05/738 & G/HO/GJ/06/728(G31657) दि/Dated : **27/06/2022**

सेवा में/
To,

M/s. Grasim Industries Limited,
Plot No 1 GIDC Vilayat Industrial Estate,,
Taluka Vagra
Vilayat,
District: BHARUCH
State: Gujarat
Pin : 392140

विषय/ **Subject:** **Plot No, 1, GIDC Industrial Estate Taluka Vagra, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 392140.** में सिलण्डररों में **HYDROGEN** गैस का भरण-एवं भण्डा5रण गोडाउन,गैस सिलेण्डLर्स नियम, 2016 के अंतर्गत जारी अनुज्ञप्ति सं. **G/HO/GJ/05/738 & G/HO/GJ/06/728(G31657)** – अनुज्ञप्ति संशोधित करने के बारे में//Filling of **HYDROGEN** and Storage of **HYDROGEN** gas in cylinders at **Plot No, 1, GIDC Industrial Estate Taluka Vagra, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 392140.** Licence No. **G/HO/GJ/05/738 & G/HO/GJ/06/728(G31657)** granted in Form E&F of Gas Cylinders Rules, 2016 - Amendment of Licence regarding.

महोदय/
Sir(s),

कृपया आपके दि. **20/06/2022** के पत्र सं. **OIN1089201** का संदर्भ ग्रहण करें/ Please refer to your application No.**OIN1089201** dated **20/06/2022** for **additions/ alterations,**.

फार्म इ एवं एफ के अंतर्गत जारी अनुज्ञप्ति सं. **G/HO/GJ/05/738 & G/HO/GJ/06/728** इसके साथ संशोधित कर भेजी जा रही हैं/ The licence number in Form-E&F **G/HO/GJ/05/738 & G/HO/GJ/06/728** is sent herewith duly amended -

(The amendment is due to additions/ alterations, Change in Capacity Details , Change in Layout)

अनुज्ञप्ति फ़ीस में बदलाव हुआ है और भण्डारकरण के लिए फ़ीस रु. **4000/-** प्रति वर्ष तथा भरण के लिए फ़ीस रु **5000/-** प्रति वर्ष है. यह अनुज्ञप्ति दिनांक 30 सितम्बर **2029** तक प्रवृत्त रहेगी । The licence fee is changed. Storage fee is Rs. **4000/-** per year and Filling fee is Rs.**5000/-** per year and the licence is valid upto **30th Sep, 2029.**
कृपया पावती दें और भावी पत्राचार में इस अनुज्ञप्ति नंबर का संदर्भ दें. नवीनीकरण के लिए गैस सिलिण्डर नियम 2016 के नियम 55 के अनुसार प्रक्रिया का अनुपालन करें । / Please acknowledge the receipt of the same and quote this licence number in future correspondence.Please follow a procedure under Rule 55 of Gas Cylinders Rules, 2016 for Renewal of License.

भवदीय/Yours faithfully,

((पी.सीनीराज)
(P. SEENIRAJ))
उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
कृते मुख्य विस्फोटक नियंत्रक
For Chief Controller of Explosives
नागपुर/Nagpur

Copy forwarded to :-
1. The Jt. Chief Controller of Explosives, Vadodara. A Copy of the licence along with approved plan is enclosed.

For Chief Controller of Explosives
Nagpur

कृते मुख्य विस्फोटक नियंत्रक
नागपुर

Note:-This is system generated document does not require physical signature.

BEIL INFRASTRUCTURE LIMITED
(Formely Known As Bharuch Enviro Infrastructure Limited)

29 JANUARY, 2022

To,
GRASIM INDUSTRIES LTD. - CHEMICAL DIV. (PLOT NO.1 - 41279)
Plot No.1, GIDC,
Vilayat, Taluka Vagra,
DIST. BHARUCH,

Sub: Membership Certificate for Common Incineration Facility

Dear Sir,

You are a member of our Common Incinerator Facility and your membership No. is **CI/BD/092**. We hereby certify that your booked quantity has increased from **10 MT/Year** to **160 MT/Year**.

Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited
(Formerly Known as Bharuch Enviro Infrastructure Ltd)

AUTHORISED SIGNATORY

SHESH ENVIRO INFRA PVT. LTD. UNIT-I

Site Office:
Plot No.: 499-501, GIDC Saykha,
Bharuch, Gujarat
M: +91 95128 00046
www.sheshenviro.com

Registered Office:
301, UTC, Udhana Darwaja,
Surat, Gujarat
T: 0261-2344773
E: info@sheshenviro.com

Date: 07/05/2024

Membership Certificate

This Certify that **M/s. Grasim Industries Limited (Chemical Division),** located at **Plot No.: 1, GIDC Vilayat Industrial Estate, Bharuch,Vilayat, Taluka - Vagra, Gujarat - 392012,** have obtained Membership for Common Hazardous Waste Treatment Storage Disposal Facility (TSDF) at **Shesh Enviro Infra Pvt. Ltd. , located at 499-501, GIDC Saykha, Bharuch - 392140**.

This Membership is subject to obtaining authorization from Gujarat Pollution Control Board. They have agreed to dispatch their Hazardous Waste at our TSDF site as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 published by Ministry of Environment, Forest and Climate Change, Government of India (MOEF&CC) and pay the charge for the same.

Membership No.	**SE/05/L/T/OTH/0051**
Booked Solid Waste quantity	**30,000 MT/Year**

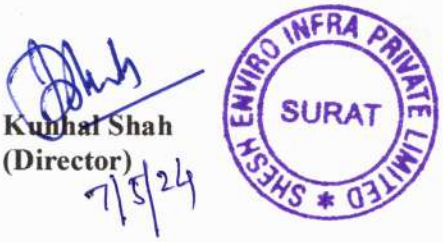
Validity: **Until the TSDF site is completely filled at Plot No.:499-501, GIDC Saykha, Bharuch – 392140.**

Prepared by: Hingu Khushali

Checked by: Umang Shah

Yours faithfully,

For, M/s. Shesh Enviro Infra Pvt Ltd.



Kunhal Shah
(Director)
7/5/24

Note: In case of non payment of Membership Charges/Disposal Charges for TSDF by the Member, this certificate shall automatically be invalid within 7 days.

BEIL INFRASTRUCTURE LIMITED
(Formely Known As Bharuch Enviro Infrastructure Limited)

REF: BEIL/ANK/2022 02ND MARCH, 2022

To,
GRASIM INDUSTRIES LTD. - CHEMICAL DIV. (PLOT NO.1 - 41279)
Plot No.1, GIDC,
Vilayat, Taluka Vagra,
Dist-Bharuch.

Sub: Membership Certificate for Common Solid Waste Disposal Facility

Dear Sir,

We hereby certify that you have become member of the common Solid/Hazardous Waste Disposal Facility developed by For, BEIL INFRASTRUCTURE LIMITED (Formerly Known as Bharuch Enviro Infrastructure Ltd)., at GIDC, DAHEJ. You have booked solid waste quantity **31000 MT/ Year** (Original Booked Quantity **24300 MT** + Increased Quantity **6700 MT**). Your Membership No. **is OTH/133.**

1) Total TSDF Capacity of BEIL Dahej: 1900000 MT
2) Total Consented Capacity: 1900000 MT
3) Total Occupied Capacity: 0737129.63 MT
4) Spare Capacity: 1162870.37 MT

Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited
(Formerly Known as Bharuch Enviro Infrastructure Ltd)

AUTHORISED SIGNATORY

"Certificate"

DETOX INDIA
operated by VEOLIA

Certificate No.:104361

To Whomsoever it may concern

This is to certify that

GRASIM INDUSTRIES LIMITED(CHEMICAL DIVISION)

PLOT NO. 1
GIDC INDUSTRIAL ESTATE VILAYAT
TAL : VAGRA
BHARUCH

is a valid member of

SAFE ENVIRO PRIVATE LIMITED

SEPL - Magnad

for

Integrated Common Hazardous Waste Management Facility

This membership is valid for a period of

05 Years

Date of Issue :09-11-2022
Date of Expiration : 09-11-2027
Place of Issue : Surat

For, Safe Enviro Private Limited

Director

SUBJECT TO SURAT JURISDICTION

Safe Enviro Private Limited
Survey No. 868, Village - Magnad, Tal. - Jambusar, Dist. - Bharuch - 392150 (Guj.) INDIA
Corporate Office : Detox House, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat-395 002 (Guj.) INDIA
Ph. : +91 261 2351248, 2346181 | E-mail : info.safeenviro@veolia.com | CIN : U51101GJ2015PTC083237

DETOX INDIA
operated by VEOLIA

REF:SEPL/ACCEPTANCE/104361/2022/31

Date:06.11.2022

TO WHOMSOEVER CONCERNED

CERTIFICATE

This is to inform **M/s. GRASIM INDUSTRIES LTD.(CHEMICAL DIVISION)** Situated at **Plot No.1, GIDC Industrial Estate Vilayat, Tal.Vagra, Dist.Bharuch.** is an active member of Integrated Common Hazardous Waste Management Facility (TSDF) operated by **M/s. Safe Enviro Pvt. Ltd.** vide Membership No.104361. Details of Waste type along With Quantity Proposed by the member unit are mentioned below:

Sr. No.	Type of Waste	Quantity (MT/Annum)
2	Phosphoric Acid (35.3) & Brine Sludge (16.2)	40,000 MT

M/s. Safe Enviro Pvt. Ltd. shows its readiness to accept the above waste proposed by **M/s. GRASIM INDUSTRIES LTD.(CHEMICAL DIVISION)** after conducting Comprehensive analysis of their waste to confirm disposal pathway for its safe disposal at our site.

For, Safe Enviro Pvt. Ltd.

(Authorised Signatory)

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
(A GOVT. OF GUJARAT UNDERTAKING)
Office of the Dy. Executive Engineer (DRG)
1st FLOOR ,NARMADA COMM. COMPLEX,
STATION ROAD, PANCHBATTI,
BHARUCH –392001PH :242432/244184 FAX:(02642)241902
Mail ID: gidcbharuch@rediffmail.com

NO: GIDC/BRH/DEE (DRG)/ 654

Date: 04 / 08 /2018

To,
M/s Grasim Industries Limited,
Plot No .1,GIDC,
Vilayat, Ta.-Vagra,
Dist- Bharuch-392140

Sub : Assurance letter to discharge of 23.00 MLD industrial effluent by M/s Grasim Industries Limited Plot no. 1 , Vilayat.

Ref: - 1. Your Letter Dated. 29/11/2017
2. Approved Note by SE (CG) dated 26/07/2018

Dear Sir,

Vide letter under referenced letter no 1, you have demanded an assurance letter to discharge of 23.00 MLD industrial effluent.

You have paid Drainage contribution charges for 19.40 MLD effluent Quantity in Vilayat drainage Pumping Station and your Drainage connection is released for 12.48 MLD.

In this regard, this office assures that 23.00 MLD industrial effluent can discharge by M/s Grasim Industries Limited Plot no. 1 Vilayat, subject to the following conditions:

1. Current Available Discharge Quantity in Vilayat Drainage Pumping Station.
2. Availability of spare quantity in design capacity of sewer line.
3. The allottee pays the contribution and other applicable charge for the said quantity industrial effluent.
4. The allottee has to make their own provision to discharge industrial effluent in to GIDC's sewer line or in to collection well if the Pipe line Size is more than Existing Network Pipeline.
5. Existing effluent discharge Quantity would be assured after taken the approvals from the competent authority.
6. The effluent discharge connection shall only be released after the submission of GPCB consent as per the approved the quantity.

This is for your Information Please.

4/8/18

Dy. Executive Engineer (DRG),
GIDC Bharuch.

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
(A Govt. of Gujarat Undertaking)
Udhyog Bhavan, Block No.3, 4 & 5, Sector-11,
Gandhinagar-.382 017. Tele: 079-23250571

No. GIDC/ENG/CE/34 Date: 09-10-2017

To,
Shri Ashish Garg,
Unit Head, Grasim Industries Ltd,
Vilayat Industrial Estate.

Sub : Up-gradation of GIDC Infrastructure to support Proposed Expansion of Viscous Staples Fibre at Vilayat

Ref : Your letter dtd 03-10-2017 and subsequent meeting with the Hon'ble VC & MD, GIDC on 4th Oct. 2017.

Dear Sir,

We are glad to know that M/s Grasim is planning to invest Rs. 4000 crore in VSF and Caustic Chlorine capacity expansion at the existing Vilayat Plant. We welcome your decision and GIDC shall support M/s Grasim in expansion of the plant by upgrading the water supply as well as effluent discharge infrastructures.

GIDC has already the necessary permission from the government to draw water to from Narmada River as well as Narmada Main Canal to meet the demand. GIDC has already completed the 25 MGD Narmada river based Water Supply Scheme while the 50 MGD Water Supply Scheme based on the Narmada Main Canal is on the verge of completion which is expected to be completed by December 2017. Once 50 MGD Water Supply Scheme is completed the issue of Saline Water Ingress in the Narmada River shall be mitigated as the major water shall be conveyed through the gravity pipe line laid from the Narmada Main Canal to Dahej and GIDC shall be able to supply 55-66 MLD of Water to M/s Grasim.

While for conveyance of the treated effluent, GIDC is planning to lay a new effluent disposal line of adequate capacity and shall make necessary arrangements to take care of the effluent from the Grasim by December 2019.

Thanking You,
Yours faithfully,
9/10/17
(B C Warli)
Chief Engineer,
GIDC, Gandhinagar.

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION

(A Govt. of Gujarat Undertaking)
Office of the Superintending Engineer (CG)
1st Floor, Narmada Commercial Complex,
M.G.Road, PanchBatti, Bharuch-392001
Phone: (02642)242432/244183
FAX:(02642)241902

Ref:- No. No GIDC/SE/CG/BRH/1236 Dated:- 29/12/2016

To,
M/s Grasim Industries Limited
Plot NO. 1, Vilayat Industrial Estate

Sub:- 1) Increase in quantity of effluent discharge -from 12.48 MLD to 19.40 MLD
2) Increase in quantity of water supply from 15.60 MLD to 25 MLD

Dear Sir,

In this regard, it is to inform you that GIDC has already released 12.48 MLD effluent discharge quantity as per prevailing policy of the Corporation. Now as approved by GPCB, you have paid the drainage contribution charges to GIDC for additional quantity i.e. 19.40 MLD (-) 12.48 MLD i.e. for 6.92 MLD. In view of this, you are requested to apply online for new drainage connection for ultimate quantity of 19.40 MLD.

Similarly for water supply GIDC has already released 15.60 MLD water supply as per prevailing policy of the Corporation. Now as approved by GPCB, increase in quantity of water supply from 15.50 MLD to 25.00 MLD is approved in principally. In view of this, you are requested to apply online for water supply connection for ultimately quantity of 25.00 MLD.

Thanking you,
Yours faithfully

Superintending Engineer (CG)
GIDC, Bharuch

Copy submitted w.r. to-
The Chief Engineer, GIDC, Gandhinagar for kind information please.

Copy to:-
The Executive Engineer, GIDC, Bharuch
The Dy. Executive Engineer (Drg - W/s), GIDC, Bharuch

P. K. PUJARI, IAS
Vice Chairman & Managing Director

GUJARAT INDUSTRIAL
DEVELOPMENT CORPORATION
(A Govt. of Gujarat Undertaking)

No. GIDC/PROJ/MKT/GRASIM/575 December 6, 2006

M/s. Grasim Industries Limited
B-4, Aditya Birla Centre,
S.K. Ahire Marg,
Worli,
Mumbai 400 030. (Fax No.022-66525832)

Kind attention Shri S.K. Saboo, Group Executive President

Dear Sir,

Sub.: Offer-cum-Allotment of Plot in Vilayat Ind. Estate
Ref.: Our letter no. GIDC/RM/ANK/ALT/210 dt.9.11.2006

Please refer to your letters dt.28.11.2006, 4.12.2006 and 6.12.2006 as also the personal discussions Grasim team had with you on 2.12.2006 and 4.12.2006.

We are pleased to send herewith a statement capturing the gist of decisions taken on various request made by you.

You have informed us that you received our letter dt.9.11.2006 on 13.11.2006. Accordingly, you are required to make payment of the offer amount and comply with other terms & conditions of the offer before 12.12.2006. Kindly note that the bulk area discount scheme has been discontinued with effect from 1.10.2006. We shall have to withdraw the bulk area discount given to you in case the payment is not received within the stipulated time.

Thanking you.

Yours faithfully,

(P.K. Pujari)
Vice Chairman & Managing Director

Encl.: As above

GIDC Gandhinagar

Vilayat Estate allottee - M/s. Grasim Industries Limited

Sr. No.	Issue	GIDC's reponse
1.	**Land Cost -** – Initial understanding 30% discount – Actual working out 28.4% Request - To consider giving 30% discount	Bulk Area Discount scheme since discontinued from 1.10.2006. GIDC cannot consider the request for flat rate of discount.
2.	**Water -** **Quantity -** – Allotted 12.21 MLD against 30 MLD. – First Phase minimum requirement 15.60 MLD (on an increasing spread of 5 years) **Request -** To revise quantity to 15.60 MLD within same allotment price. **Minimum Charges -** Minimum Charges for 70% of the demand quantity payable after 3 years from the date of allotment. **Request -** To revise 3 years to 5 years. **Variable Charges -** **Request -** Should be charged on actual consumption basis.	Quantity of water allotted 15.60 MLD. Grasim's water requirement staggerred as follows :- 1st Year - 4 MLD 2nd year - 4 MLD 3rd Year - 4 MLD 4th year - 4 MLD 5th year - 6 MLD 6th Year - 12 MLD From 7th Year - 15.6 MLD Commitment charges will be levied on the basis of above demand after the period of utilization as per GIDC's policy.. GIDC's commitment for supply of water would be only for quantities as indicated above. Water will be provided on completion of 25 mgd. w/s scheme for Dahej by June. 2007.

3.	**Effluent -** **Quantity -** – Allotted quantity 9.76 MLD. – For first phase minimum requirement is 12.48 MLD. **Request -** To revise quantity to 12.48 MLD within the same allotment price. **Charges -** **Request -** To be charged based on actual disposal quantity on similar lines of water.	EDP utilization staggerred. 80% of the water requirement indicated at Column-2 above.
4.	**Power Line-** **Request-** Power Lin passing through the plot to be shifted at no extra cost to us.	GIDC is shifting the power line as per the revised planning of the Estate.
5.	**Commencement of Production -** **Request -** To extend the time period for approval of building plan to the date on which last of the approval for construction of the project is obtained and consequently extend the time for "Commencement of Production" to five years from the date of such approval.	Not acceptable.
6.	**The Project -** **Request -** To allow any other project from Aditya Birla Group.	GIDC will consider such requests as per rules for sub-letting & sub-dividing.

7.	**Staff and Workers Colony -** **Request -** Gas is a continuous process plant and Power Plant, hence to meet emergency requirement we have to have colony for workers and staff. To give approval.	Regular residential colony within the plot cannot be permitted. However, transit/emergency housing may be considered on merits.
8.	**Date of Allotment -** **Request -** Date of allotment to be considered from the date of handing over vacated plot from the farmers or removal of Power Line, whichever is later.	Considering the large area allotted to you, the period for utilization of the plot i.e. coming into production is four years from the date of allotment as per GIDC's policy. GIDC will hand over possession of land after removal of encroachments and power line would be shifted at the earliest possible.
9.	**Future Water & Effluent Requirement -** **Request -** Assurance for making available additional water & effluent for second phase.	Any additional capacity beyond the quantity mentioned above will be at a cost and subject to availability.

Date: 21/05/2025

GRASIM INDUSTRIES LIMITED
A-2, ADITYA BIRLA CENTRE, S.K.AHIRE MARG,
WORLI, MUMBAI,
MUMBAI - 400030
MUMBAI
MAHARASHTRA
INDIA
27AAACG4464B6ZT(GSTIN Number)

Policy No : 0304010255
Renewal : 02
Endorsement : 00

Dear Sir / Madam,

We thank you for choosing **Tata AIG General Insurance Company Ltd.** as your preferred insurer. Your Policy No. Is 0304010255 02 00.

We are glad that you have chosen our product **PUBLIC LIABILITY ACT** and given us an opportunity to be your risk carrier for this Product.

'Casualty Line' caters to most of the Enterprises / Industries in India, whether Large, Medium or Small. As one of the India's most established insurance companies, we understand these unique needs of coverage. At Tata AIG we care for you and would strive to offer convenience coupled with a range of products that cater continously to your ever increasing needs.

Enclosed please find your policy docket based on the information furnished by you in the Proposal.

We look forward to a long and mutually beneficial relationship and providing you wider range of benefits in the years to come.

Yours Sincerely,
For Tata AIG General Insurance Company Limited

PUBLIC LIABILITY ACT POLICY
POLICY SCHEDULE

Agent/Broker Name -ADITYA BIRLA INSURANCE BROKERS LTD
Agent/Broker License Code - 146:Agent/Broker :Contact No - 9920946648 (mobile or landline)

Attaching to and forming part of Policy No. 0304010255 02 00
Name of Insured Owner: GRASIM INDUSTRIES LIMITED
Business: Textile Bsuiness and Multiple business conglomerate

Address: A-2, ADITYA BIRLA CENTRE, S.K.AHIRE MARG,
WORLI, MUMBAI,
MUMBAI - 400030
MUMBAI
MAHARASHTRA
INDIA
27AAACG4464B6ZT(GSTIN Number)
Place of supply -MAHARASHTRA
State code -27

Territorial limits: Anywhere in India

Policy Period: **From:** 01/04/2025 12:00 AM/ PM
To Midnight of: 31/03/2026 12:00 AM/ PM

Indemnity limit:Rs 1,400,000,000.00(AOA Limit) in respect of any one accident and not exceeding Rs 1,400,000,000.00(AOY Limit) in the aggregate during the policy period.

Service Tax Registration No:

Premium	₹ 700,000.00
UGST/SGST @9 %	₹ 63,000.00
CGST @9 %	₹ 63,000.00

Contribution to the Environment Relief Fund:₹ 700,000.00

Date of Proposal and declaration:01/04/2025

In witness whereof the undersigned being duly authorized by the company and on behalf of the company has hereto set his hand at MUMBAI on 21/05/2025

The stamp duty of 0.25 paid in cash or demand draft or by pay order,vide Receipt/Challan no: LOA/ENF1/CSD/45/2025/1337 dated the 16/04/2025

For Tata AIG General Insurance Company Limited

Date :21/05/2025
Place :MUMBAI

Policy Servicing Office
Tata AIG General Insurance Company Limited
BUILDING NO. 28,GROUND AND MEZZANINE FLOOR, DR. ERNEST BORGES ROAD, PAREL EAST, OPP. SHIRODKAR HIGH,MUMBAI,MAHARASHTRA,MUMBAI-400012
Tel No:22-22-62606600

RECEIPT

Receipt No. : 102001102583190

Receipt Date : 26/03/2025

Policy No : 0304010255 02 00

Received with thanks from GRASIM INDUSTRIES LIMITED a sum of ₹ **15,26,000.00** (Rupees Fifteen Lakhs Twenty Six Thousand And Paise Zero Only)

Sr. No.	Policy Number	Total Premium (₹)	Utilized from the receipt for policy (₹)	Balance (₹)
1	0304010255 02 00	15,26,000.00	15,26,000.00	0.00

Note:

1. This is a computer generated receipt and does not require a signature.
2. Upon issuance of this Receipt, all previously issued temporary receipts, if any, related to this Policy shall be considered null and void.
3. Amounts received by cheque shall be subject to realisation.
4. Any amount received in excess of the Premium is being/shall be refunded by the Company.

GSTIN : 27AABCT3518Q1ZW - MAHARASHTRA Service Accounting Code : 997139

Revenue (consolidated) Stamp Duty duly paid vide challan No.LOA/ENF1/CSD/83/2024/5365 date 30/11/2024 for applicable cases.

Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.
TATA AIG General Insurance Company Ltd. Regd. Office: 15th floor, Tower A, Peninsula Business Park,Ganpatrao Kadam Marg, Off Senapati Bapat Marg, Lower Parel, Mumbai- 400 013.

LIABILITY INSURANCE POLICY
(UNDER PUBLIC LIABILITY INSURANCE ACT 1991)

1.OPERATIVE CLAUSE

Whereas the Insured Owner named in the schedule hereto and carrying on business described in the said schedule has applied to the Tata AIG General Insurance Company Limited (hereinafter called the Company) for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contribution towards the Environment Relief Fund as per the provisions of the Public Liability Insurance Act and the rules framed thereunder.

NOW THIS POLICY WITNESSETH that subject to the terms, exceptions and conditions contained herein or endorsed hereon, the company will indemnify the insured owner against the statutory liability arising out of accidents occurring during the currency of the policy due to handling hazardous substances as provided for in the said Act and the Rules framed thereunder.

2.DEFINITIONS:

a)"ACT" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time;

b) "Accident" means an accident involving a fortuitous, sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity;

c) "Handling" in relation to any harzardous substance means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance;

d) "Hazardous Substance" means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified, by notification, by the Central Government;

e)"Owner" means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:
i) in the case of a firm any of its partners;
ii) in the case of an association, any of its members, and
iii) in the case of a company, any of its directors, managers, secretaries or other officers who is/are directly in charge of, and is/are responsible to the company for the conduct of the business of the company;

f) "Turnover" shall mean
i) Manufacturing units-Annual Gross Sales of all goods including all levies and taxes
ii) Godowns/ warehouse owners-Total Annual rental receipts.
iii)Transport Operators-Total Annual freight receipts.
iv)Others-Total Annual gross receipts.

3. EXCLUSIONS:

(1) arising out of wilful or intentional non-compliance of any Statutory provisions.

(2) in respect of fines, penalties, punitive and/or exemplary damages.

(3) arising under any other legislation except in so far as provided for in Section 8 Sub Section (1) and (2) of the Act.

(4) in respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody.

(5) directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power;

(6) directly or indirectly caused by or contributed to by.

(a) ionising radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel

(b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

4. CONDITIONS:

(1) The Insured owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or of any specific event or circumstance that may give rise to a claim. The Insured Owner shall immediately give to the Company copies of notice of applications forwarded by the Collector and all

such additional information and or assistance that the company may require.

(2) No admission, offer, promise or payments shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.

(3) The Company shall not be liable for any claim for relief made after five years from the date of occurrence of the accident.

(4) The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.

(5) If at the time of happening of any accident resulting in a claim under this policy there be any other insurance covering the same liability, then the Company shall not be liable to pay or contribute more than its ratable proportion of such liability.

(6) This policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the company in which event the Company will retain premium at short period scale subject to there not having occurred an accident during the policy period which may give rise to a claims(s), failing which no refund of premium shall be allowable.

(7) This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a ratable proportion of the premium for the unexpired term from the date of cancellation.

(8) If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer have been made the subject matter of a suit in a competent court of law, then the claim for the practical purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.

(9) The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported, by any person on behalf of the Insured Owner and/or if the insurance has been continued in consequence of any material misstatement or non-disclosure of any material information by or on behalf of the Insured Owner. In such a case if the Company pays any amount to the claimant due to any statutory provision such amount shall be recoverable from the Insured Owner.

(10) The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or in this Policy shall bear such specific meaning.

(11) Any dispute regarding interpretation of the terms, conditions and exclusions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.

GRIEVANCE REDRESSAL POLICY

Grievance Lodgment Stage

The Company is committed to extend the best possible services to its customers. However, if you are not satisfied with our services and wish to lodge a complaint, please feel free to contact us through below channels:

Call us 24X7 toll free helpline 1800 266 7780
Email us at customersupport@tataaig.com

Write to us at : Customer Support, Tata AIG General Insurance Company Limited
A-501 Building No.4 IT Infinity Park, Dindoshi, Malad (E), Mumbai - 400097
Visit the Servicing Branch mentioned in the policy document

Nodal Officer

Please visit our website at www.tataaig.com to know the contact details of the Nodal Officer for your servicing branch.
After investigating the grievance internally and subsequent closure, we will send our response within a period of 10 days from the date of receipt of the complaint by the Company or its office in Mumbai. In case the resolution is likely to take longer time, we will inform you of the same through an interim reply.

Escalation Level 1

For lack of a response or if the resolution still does not meet your expectations, you can write to manager.customersupport@tataaig.com. After investigating the matter internally and subsequent closure, we will send our response within a period of 8 days from the date of receipt of your complaint.

Escalation Level 2

For lack of a response or if the resolution still does not meet your expectations, you can write to the Head-Customer Services at head.customerservices@tataaig.com. After examining the matter, we will send you our response within a period of 7 days from the date of receipt of your complaint. Within 30 days of lodging a complaint with us, if you do not get a satisfactory response from us and you wish to pursue other avenues for redressal of grievances, you may approach Insurance Ombudsman appointed by IRDA under the Insurance Ombudsman Scheme. Given below are details of the Insurance Ombudsman located at various centers.

List of Insurance Ombudsman Offices

Office of the Ombudsman	Address & Contact details	Jurisdiction of Office Union Territory, District
AHMEDABAD	Office of the Insurance Ombudsman, Jeevan Prakash Building, 6th Floor, Tilak Marg, Relief Road, Ahmedabad - 380 001. Tel.: 079 - 25501201/02/05/06 Email: bimalokpal.ahmedabad@ecoi.co.in	Gujarat, Dadra & Nagar Haveli, Daman and Diu.
BENGALURU	Office of the Insurance Ombudsman, Jeevan Soudha Building, PID No. 57-27-N-19 Ground Floor, 19/19, 24th Main Road, JP Nagar, Ist Phase, Bengaluru – 560 078. Tel.: 080 - 26652048 / 26652049 Email: bimalokpal.bengaluru@ecoi.co.in	Karnataka
BHOPAL	Office of the Insurance Ombudsman, Janak Vihar Complex, 2nd Floor, 6, Malviya Nagar, Opp. Airtel Office, Near New Market, Bhopal – 462 003. Tel.: 0755 - 2769201 / 2769202 Fax: 0755 - 2769203 Email: bimalokpal.bhopal@ecoi.co.in	Madhya Pradesh Chattisgarh
BHUBANESHWAR	Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar - 751 009. Tel.: 0674 - 2596461 /2596455 Fax: 0674 - 2596429 Email: bimalokpal.bhubaneswar@ecoi.co.in	Orissa
CHANDIGARH	Office of the Insurance Ombudsman, S.C.O. No. 101, 102 & 103, 2nd Floor, Batra Building, Sector 17 – D, Chandigarh - 160 017. Tel.: 0172 - 2706196 / 2706468 Fax: 0172 - 2708274 Email : bimalokpal.chandigarh@ecoi.co.in	Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir, Chandigarh
CHENNAI	Office of the Insurance Ombudsman, Fatima Akhtar Court, 4th Floor, 453, Anna Salai, Teynampet, CHENNAI - 600 018. Tel.: 044 - 24333668 / 24335284 Fax: 044 - 24333664 Email : bimalokpal.chennai@ecoi.co.in	Tamil Nadu, Pondicherry Town and Karaikal (which are part of Pondicherry).
DELHI	Office of the Insurance Ombudsman, 2/2 A, Universal Insurance Building, Asaf Ali Road, New Delhi – 110 002. Tel.: 011 - 23239633 / 23237532 Fax: 011 - 23230858 Email: bimalokpal.delhi@ecoi.co.in	Delhi
GUWAHATI	Office of the Insurance Ombudsman, Jeevan Nivesh, 5th Floor, Nr. Panbazar over bridge, S.S. Road, Guwahati – 781001(ASSAM). Tel.: 0361 - 2132204 / 2132205 Fax: 0361 - 2732937 Email : bimalokpal.guwahati@ecoi.co.in	Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura
HYDERABAD	Office of the Insurance Ombudsman, 6-2-46, 1st floor, "Moin Court", Lane Opp. Saleem Function Palace, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 65504123 / 23312122 Fax: 040 - 23376599 Email : bimalokpal.hyderabad@ecoi.co.in	Andhra Pradesh, Telangana, Yanam and part of Territory of Pondicherry.
JAIPUR	Office of the Insurance Ombudsman, Jeevan Nidhi – II Bldg., Gr. Floor, Bhawani Singh Marg, Jaipur-302 005. Tel.: 0141 - 2740363 Email: Bimalokpal.jaipur@ecoi.co.in	Rajasthan
ERNAKULAM	Office of the Insurance Ombudsman, 2nd Floor, Pulinat Bldg., Opp. Cochin Shipyard, M. G. Road, Ernakulam - 682 015. Tel.: 0484 - 2358759 / 2359338 Fax: 0484 - 2359336 Email : bimalokpal.ernakulam@ecoi.co.in	Kerala, Lakshadweep, Mahe-a part of Pondicherry
KOLKATA	Office of the Insurance Ombudsman, Hindustan Bldg. Annexe, 4th Floor, 4, C.R. Avenue, KOLKATA-700 072. Tel.: 033 - 22124339 / 22124340 Fax : 033 - 22124341 Email: bimalokpal.kolkata@ecoi.co.in	West Bengal, Sikkim, Andaman & Nicobar Islands
LUCKNOW	Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase-II, Nawal Kishore Road, Hazratganj, Lucknow - 226 001. Tel.: 0522 - 2231330 / 2231331 Fax: 0522 - 2231310 Email : bimalokpal.lucknow@ecoi.co.in	Districts of Uttar Pradesh : Laitpur, Jhasi, Mahoba, Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhabdra, Fatehpur, Pratapgarh, Jaunpur, Varanasi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bahraich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sultanpur, Maharajgang, Santkabirnagar, Azamgarh, Kushinagar, Gorkhpur, Deoria, Mau, Ghazipur, Chandauli, Ballia, Sidharathnagar

MUMBAI	Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai - 400 054. Tel.: 022 - 26106552 / 26106960 Fax: 022 - 26106052 Email : bimalokpal.mumbai@ecoi.co.in	Goa, Mumbai Metropolitan Region excluding Navi Mumbai & Thane
NOIDA	Office of the Insurance Ombudsman, Bhagwan Sahai Palace, 4th Floor, Main Road, Naya Bans, Sector 15, Distt: Gautam Buddh Nagar, U.P-201301. Tel.: 0120-2514250 / 2514252 / 2514253 Email : bimalokpal.noida@ecoi.co.in	State of Uttaranchal and the following Districts of Uttar Pradesh : Agra, Aligarh, Bagpat, Bareilly, Bijnor, Budaun, Bulandshehar, Etah, Kanooj, Mainpuri, Mathura, Meerut,Moradabad, Muzaffarnagar, Oraiyya, Pilibhit, Etawah, Farrukhabad, Firozbad, Gautambodhanagar, Ghazaibad, Hardoi, Shahjahanpur, Hapur, Shamli, Rampur, Kashganj, Sambhal, Amroha, Hathras, Kanshiramnagar, Saharanpur
PATNA	Office of the Insurance Ombudsman, 1st Floor,Kalpana Arcade Building, Bazar Samiti Road, Bahadurpur, Patna 800 006. Tel.: 0612-2680952 Email:bimalokpal.patna@ecoi.co.in	Bihar, Jharkhand
PUNE	Bhagwan Sahai Palace , 4th Floor, Main Road, Naya Bans, Sector 15, G.B. Nagar, Noida. NOIDA – 201301 Tel: 0120-2514250/51/53 Email: bimalokpal.noida@gbic.co.in	Maharashtra, Area of Navi Mumbai and Thane excluding Mumbai Metropolitan Region

Shree Rang
Occupational Health Centre

9, Sky View Shopping, Opp. Birla Grasim, Vilayat, G.I.D.C. Chokdi, Derol Road, Argama, Ta. Vagra, Dist. Bharuch.

mo 9351990068
AD 691459676655

VIJAY KALA
Dp-CP-Cay

SR NO : 16
DATE : 8.5.2025

MEDICAL CHECK UP REPORT CERTIFICATE : CHEMICAL

This certificate is issued to :

NAME	:	DESHRAJ JATAV
AGE	:	22
GENDER	:	MALE
DATE OF BIRTH	:	30-06-2002
DESI	:	HELPER
CONTRACT NAME	:	VIJAY KALA

BP-120/78

This is to certify that I have personally examined the candidate as mentioned above.
Based on the type /nature of his job requirements,medical checkup is carried out.
I certify that the above - mentioned person.

and who is desirous of being employed as mentioned above; is medically Fit for work.

☐ PRE-EMPLOYMENT MEDICAL HEALTH CHECK UP.

☑ PERIODICAL MEDICAL HEALTH CHECK UP.

PLACE : VILAYAT

Test report are to subject to technical limitation & should clinically Co-realted Lab and Institute may be Contact if require.

Dr. PRIYANKA KHER
M.B.B.S. CIH
Reg. No. G-52718
Industrial Health Consultant

Authorised Signature

Dr. Amit Bhut
(MD Pathology)
Reg. No. : G - 24305

Shree Rang Clinical Laboratory

ASEOPPLOG

Sandip N.Amodwala
B.Sc. PGMLT
M.: 99041 94903

Ketan V.Patel
B.Sc. PGMLT
M.: 83473 75600

Email: shreerangohc@gmail.com

9,Sky View Shopping, Opp Birla Grasim,Vilayat ,G.I.D.C. Chokdi,Derol Road ,ARGAMA,Ta.Vagra,Dist.Bharuch

Sr.No	: 16	Date	: 8.5.2025
Name	: DESHRAJ JATAV	Age	: 22
Reff. By	: Dr.PRIYANKA KHER (MBBS,CIH)	Sex	: MALE

COMPLETE BLOOD COUNT

TEST	RESULT	UNIT	NORMAL RANGE
Haemoglobin	13.1	g/dl	12-16
WBC Count	6000	/cmm	4,000 – 10,000
Platelet Count	273000	/cmm	1,50,000 - 4,50,000
RBC INDICES			
RBC Count	4.70	mill/cmm	4.7-6.0
P.C.V	38.8	%	38-52
M.C.V	82.6	fl	78-96
M.C.H.	34.0	pg	27-31
M.C.H.C.	41.2	g/dl	30-35
DIFFERENTIAL WBC COUNT			
Neutrophils	56	%	45- 70
Lymphocytes	40	%	20 – 45
Eosinophils	1	%	1 – 6
Monocytes	3	%	2 – 10
Basophils	0	%	0 – 0.2
ESR	7	mm/Hr	0-15

BIO CHEMISTRY

Random Blood Sugar	85	Mg/dl	70 - 140
SGPT	25	IU/L	UP TO 40
SGOT	21	IU/L	UP TO 40
Creatinine	0.80	Mg/dl	0.6-1.5

Blood Group	**B POSITIVE**

Dr. Amit Bhut
(MD Pathology)
Consultant: Pathologist
Reg. No.: G - 24305

Dr. Amit Bhut
(MD Pathology)
Reg. No. : G - 24305

Shree Rang Clinical Laboratory

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Sandip N.Amodwala
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M.: 99041 94903

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B.Sc. PGMLT
M.: 83473 75600

Email: shreerangohc@gmail.com

9,Sky View Shopping, Opp Birla Grasim,Vilayat ,G.I.D.C. Chokdi,Derol Road ,ARGAMA,Ta.Vagra,Dist.Bharuch

Sr.No	: 16	Date	: 8.5.2025
Name	: DESHRAJ JATAV	Age	: 22
Reff. By	: Dr.PRIYANKA KHER (MBBS,CIH)	Sex	: MALE

URINE ANALYSIS

TEST	RESULT	UNIT	NORMAL RANGE
Sample	Random		
PHYSICAL EXAMINATION			
Color	Yellow		
Appearance	Clear		
Quantity	30	mL	
CHEMICAL EXAMINATION			
Sp. Gravity	1.020		1.005-1.030
pH	Acidic		6.0-8.0
Protein	Absent		
Sugar	Absent		
Ketone	Absent		
Bilirubin	Absent		
Blood	Absent		
Bile salt	Absent		
Bile Pigment	Absent		
Urobilinogen	Normal		
MICROSCOPIC EXAMINATION			
Pus cells	OCC	/h.p.f.	
RBC	Absent	/h.p.f.	
Epithelial cells	1-2	/h.p.f.	
Mucus	Absent		
Cast	Absent		
Crystals	Absent		
Amorphous PPT	Absent		

Dr. Amit Bhut
(MD Pathology)
Consultant: Pathologist
Reg. No.: G - 24305

ADITYA BIRLA
GRASIM

GRASIM INDUSTRIES LTD,GIDC Rd,VILAYAT,ARAGAMA,GUJARAT-392012

AGENCY STAFF MEDICAL EXAMINATION RECORD

FORMAT NO.: F05 (OHC-P-02)

Name	DESHRAJ JATAV	Gender	MALE
DOB	*30-06-2002*	Age	22 Years
Marital Status		Children	Male:
Residential Address			Female:
Sr.No.	16		

PERSONAL HISTORY

Diet Veg N-Veg Smoking Yes No

Tobacco Chewing Yes No Any Medication

Details of Medication (If Any):

Past History (Self/ Family):

To be filled in consultation with the candidate

Sr.No.	Disease	Findings	Relation
1	Diabetes	NO	
2	Hypertension	NO	
3	Heart Disease	NO	
4	Stroke/Paralysis	NO	
5	Epilepsy/Seizure disorder	NO	
6	Jaundice	NO	
7	Tuberculosis	NO	
8	Cancer	NO	
9	Leprosy	NO	
10	Shortness of Breath/Asthama	NO	
11	Peptic ulcer	NO	
12	Mental Disorder	NO	
13	Vertigo / Height Phobia	NO	
14	Arthritis/ gout	NO	
15	Chronic Backache	NO	
16	Chronic dysentry	NO	
17	Kidney/Urinary ailment	NO	
18	Recurrent ear,nose,throat problem	NO	
19	Any Allergy	NO	
20	Any surgery	NO	
21	Recurrent headache or eye problem	NO	
22	Thyroid Dysfunction	NO	
23	Any Accident:	NO	
24	Cold,Cough,Fever	NO	
25	Declared UNFIT in any examination:		

OCCUPATIONAL HISTORY

(in Choronological Order-Starting from Present)

Sr.No.	Name of Organization	Type of work (office work/Field work/Mixed)	Exposure (Noise/gas/Chemical/Computer/Dust etc.)	Duration

I heaeby,declare that the above statemenat and information are correct to the best of my knowledge.I fully understand that any information furnished above (page 1 & 2),if found incorrect or false will tender me to disciplinary action.

Signature of Candidate
Date: 8.5.2025

Dr. PRIYANKA KHER
M.B.B.S. CIH
Reg. No. G-52718
Industrial Health Consultant

Signature of Doctor with Seal
Date: 8.5.2025

Medical Examination Record of Mr./Ms.

CLINICAL EXAMITION FINDINGS:

Height: 163 Cms. Weight: 65 Kgs.
BMI: 24.5 Built:Average/Strong/Poor
Abd.Girth: 70 Chest inspiration: 31 Cms Expiration: 33 Cms

RESPIRATORY SYSTEM

Resp.Rate: 16 /Min Shepe of Chest:Normal Trachea:NAD
Breathsounds:Normal(AEBE) Any Adventitious sound:NAD

CARDIO-VASCULAR SYSTEM

Pulse: 82 /Min, Regular/irregular Blood Pressure: 134/82 mm of Hg
Heart Sounds:S1,S2 Normal Murmur:NAD

CENTRAL NERVOUS SYSTEM

Cranial Nerves:Normal Sensory Functions:Normal
Motor Functions:Normal Reflexes:Normal

GASTRO-INTESTINAL SYSTEM

Teeth: Present Gums: Normal Tongue: Normal
Liver: Not Palpable Spleen: Not Palpable Any Lump: NAD

GESTRO-URINARY SYSTEM

Hernia: NAD Hydrocoele: NAD
Phimosis: NAD Crypto-Orchidism: NAD
Any feature of STD: NAD

EXAMINATION OF EYES

Squnint: Nystagmus:

	Near vision		Far vision	
	Right	Left	Right	Left
WITHOUT GLASS	N/6	N/6	6/6	6/6
Power of Glasses				
Colour Vision	Acceptable			
Remarks				

EXAMINATON OF EAR ,NOSE & THORAT

Tonsil
Ear Canal: NAD Tympanic Membrane: NAD
Whishpered voice: NAD Any discharge: NAD

LOCOMOTOR SYSTEM

Gait : Spine : Any abnormality:

For Females Only:

Age of Menarche Pregnancy test (If indicated):

Breast examination: L. M. P.: NIL

INVESTIGATION REPORTS OF Mr./ Ms.

BLOOD

B. Sugar F					S. Uric Acid			
B. Sugar PP					SGPT		25	IU/L
B. Sugar R	85 Mg/dl				S4OT		21	IU/L
S. Cholesterol					Hb%		13.1	Gm%
S. Triglyceride					Total WBC count		6000	/cumm
HDL					Total platelet		273000	/cumm
LDL					ESR		7	Mm/hr
S. Creat.	0.80 Mg/dl				Blood Group		B POSITIVE	
B. Urea								
Differential Count	Neutro	56	Lymph	40	Eosino	1	Mono	3
Urine R/E	Colour	Y	pH	6.5	Sugar	Absent	Albumin	Absent
Microscopy	PusCell	OCC	RedCell	Absent	Epith.	1-2	Cast	ABSENT

Any Other Investigation	:	NO
X-Ray Chest Report:	:	NO
ECG Report:	:	Within Normal Limits
Audiometry Report:	:	B/L Normal
PFT Report:	:	Within Normal Range

Ultrasonography report (If required)

Any Other Investigation done:

OBSERVATIONS

REMARK : NIL

ADVISE : NIL

FIT/UNFIT : PERSON IS FIT FOR WORK.

Dr. PRIYANKA KHER
M.B.B.S. CIH
Reg. No. G-52718
Industrial Health Consultant

Signature & Seal
Examining Doctor
Registration Number
Date: 8.5.2025

FORM NO 32

(Prescribed under Rule 68-T and 102,Gujarat Factories Rules 1963)

NAME OF THE FACTORY: GRASIM INDUSTRIES LTD

Ticket No: 16

1 Serial Number in the Registeer of Adult Worker

2 Name of worker: DESHRAJ JATAV

3 Sex : MALE

4 Age: 22

1	Department Works	
2	Name of Hazardous processes	MANIPULATION OF ACID AND ALKALIES
3	Dangerous process/operation	CHEMICAL WORKS
4	Nature of job or Occupation	HELPER
5	Raw materials,products or by products Likely to be axposed to	
6	Date of Posting or joining	8.5.2025
7	Date of leaving/transfer to or transfer	
8	Reason for discharge /leaving or transfer	
9	Date	8.5.2025
10	Signs and symptoms observed during examination	
11	Nature of tests & results there of	PHYSICAL EXAMINATION,VISION,ROUTINE BLOOD,URINE,AUDIO,PFT,ECG
12	Result Fit/Unfit	EMPLOYEE IS MEDICALLY FIT
13	Period of temporary withdrawal from that work	
14	Reason for such withdrawal	
15	Date of declaring him unfit for that work	
16	Date of issuing fitness certificate	
17	Signature with date of the Factory Medical Officer/the Certify Surgeon	Dr. PRIYANKA KHER M.B.B.S. CIH Reg. No. G-52715 Industrial Health Consultant

FORM NO. 33

(Prescribed under Rlue - 68-T and 102)

CERTIFICAT OF FITNESS OF EMPLOYMENT IN HAZARDOUS PROCESS AND OPERATION

(TO BE ISSUED BY THE FACTORY MEDICAL OFFICER)

Certificate of Medical Examination

1.	EMPLOYEE SR. NO.	: 16
2.	NAME OF PERSON EXAMINED	: DESHRAJ JATAV
3.	FATHER NAME	: HOSHIYAR JATAV
4.	SEX	MALE
5.	DATE OF BIRTH	: 30-06-2002
6.	NAME & ADDRESS OF THE FACTORY	: GRASIM INDUSTRIES LTD,ARGAMA,GUJARAT
7.	THE WORKER IS PROPOSED	: HELPER
	A. HAZARDOUS PROCESS	: MANIPULATION OF ACID AND ALKALIES
	B. DANGEROUS OPERATION	: CHEMICAL WORKS

I Certify that I have Personally examined the above named person whose identification Marks are MOLE ON RT CHEEK And who is desirous of being employed in above mentioned process / operation and that his / her, are, as can be ascertained from my examination is 22 years.

In my Opinion he / she is fit for employment in the said manufacturing process / operation.

In my Opinion he / she is unfit for employment in the said manufacturing process / operation for the reason _____He / She is reffered for further examination to the Certifying Surgeon.

The Serial Number of the Previous Certificate is _____

Dr. PRIYANKA KHER
M.B.B.S. CII
Reg. No. G-52718
Industrial Health Consultant

22/2/24

Signature or left hand thumb
Impression of the person examined

Signature of factory medical officer
Stamp of factory Medical Officer
with Name of the Factory

Note :

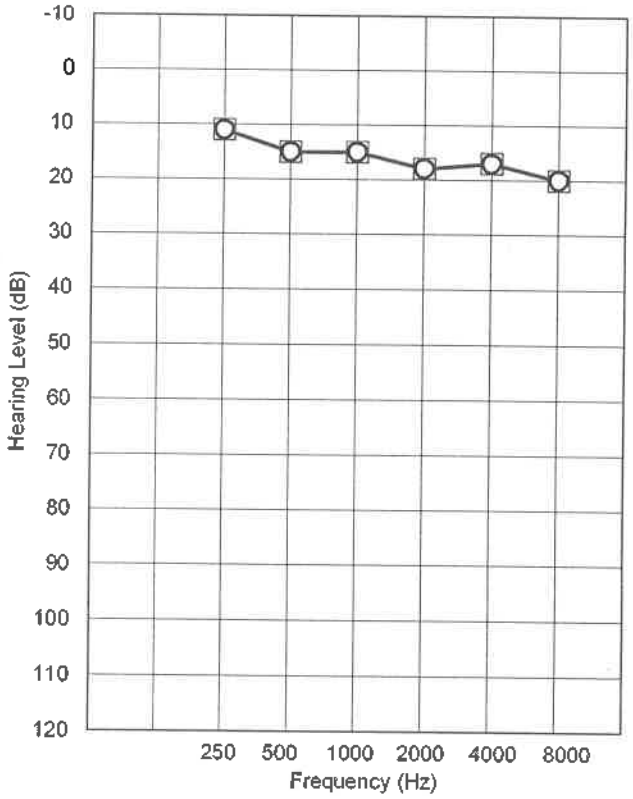
1 If declared unfit, reference should be made immediately to the Certifying Surgeon.
2 Certifying Surgeon should communicate his findings to the occupier with in 30 days of the receipt of this reference.

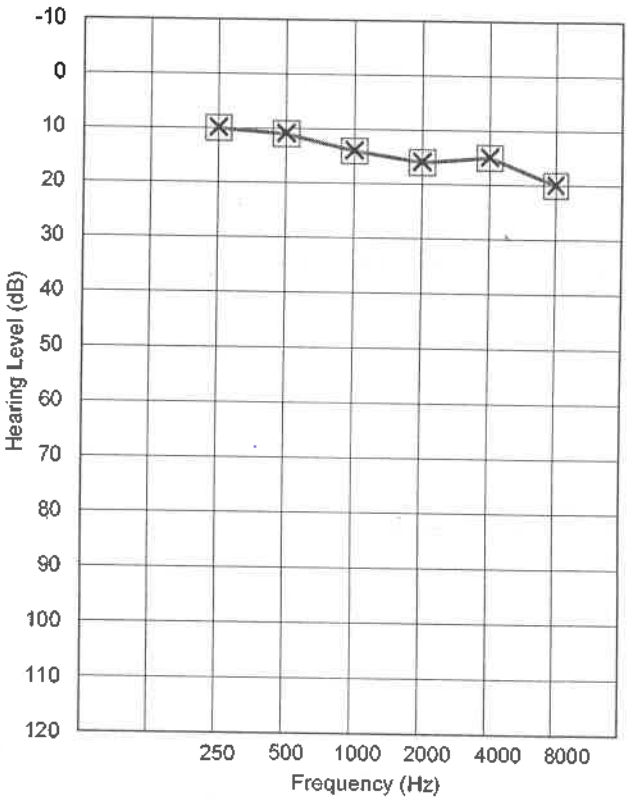
SHREE RANG OHC

9, Sky view shopping Birla Grasim, vilayat GIDC, Ta. vagra, Dist. Bharuch.

PURE TONE AUDIOGRAM

SR. : 16
DATE : 8.5.2025
NAME : DESHRAJ JATAV
AGE : 22
SEX : MALE





Masking Details:

	Right	Left
Air conduction, masked if necessary	O	×
Air conduction, not masked (shadow point)	●	⧗
Bone conduction, not masked	△	□
Bone conduction, masked	[	]
Uncomfortable loudness level	L	J

RESULT : B/L Normal

Dr. PRIYANKA KHER
M.B.B.S. CIH
Reg. No. G-52718
Industrial Health Consultant

Authorised Signature

Clarity Medical

SHREE RANG OHC

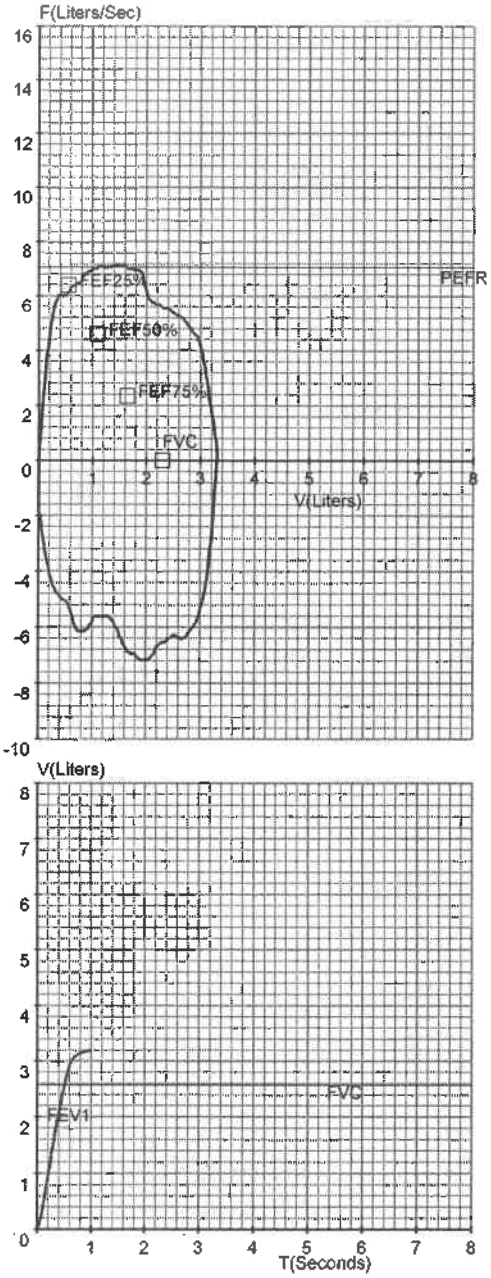
9, Sky view shopping Birla Grasim, vilayat GIDC, Ta. vagra, Dist. Bharuch.

16 DESHRAJ JATAV
22 Years/ MALE /Ht 163 Cms/ 65 Kgs/ Non-Smoker

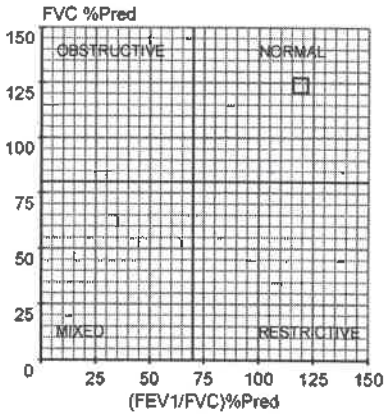
FVC TEST
Date: 8.5.2025 (T1)

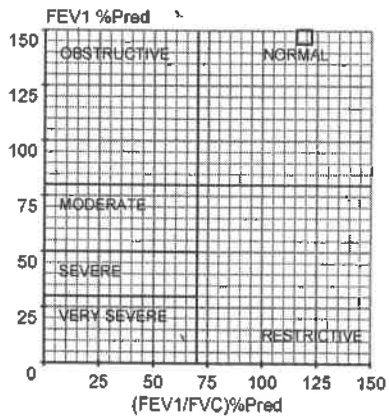
Pred Eqn: CLARITY
Ref By: NONE

Eth.Corr: 70
Temp: 0°C



Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	2.29	2.84	124	--	--	--
FEV1	[L]	1.91	2.82	147	--	--	--
FEV.5	[L]	--	2.65	--	--	--	--
FEV3	[L]	2.22	--	--	--	--	--
FEV6	[L]	--	--	--	--	--	--
PEFR	[L/s]	6.07	6.14	101	--	--	--
FEF25-75	[L/s]	2.85	5.67	199	--	--	--
FEF75-85	[L/s]	--	4.44	--	--	--	--
FEF.2-1.2	[L/s]	4.88	5.46	112	--	--	--
FEF25%	[L/s]	5.46	6.91	126	--	--	--
FEF50%	[L/s]	3.95	6.64	168	--	--	--
FEF75%	[L/s]	2.00	5.31	266	--	--	--
FEV.5/FVC	[%]	--	93.48	--	--	--	--
FEV1/FVC	[%]	83.64	99.45	119	--	--	--
FEV3/FVC	[%]	97.00	--	--	--	--	--
FEV6/FVC	[%]	--	--	--	--	--	--
FEV1/FEV6	[%]	--	--	--	--	--	--
FET	[S]	--	0.75	--	--	--	--
ExplTime	[S]	--	0.26	--	--	--	--
LungAge	[Y]	35.00	19.00	54	--	--	--
FIVC	[L]	--	2.95	--	--	--	--
PIFR	[L/s]	--	6.16	--	--	--	--
FIF25%	[L/s]	--	6.39	--	--	--	--
FIF50%	[L/s]	--	7.07	--	--	--	--
FIF75%	[L/s]	--	5.49	--	--	--	--
FIV.5	[L]	--	1.47	--	--	--	--
FIV1	[L]	--	2.92	--	--	--	--
FIV3	[L]	--	--	--	--	--	--
FIV.5/FIVC	[%]	--	49.96	--	--	--	--
FIV1/FIVC	[%]	--	98.94	--	--	--	--
FIV3/FIVC	[%]	--	--	--	--	--	--





- Pre Medication Report :
Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:
COPD Severity within Normal range

- Doctor's Comments :

On ICL
Dr. PRIYANKA KHER
M.B.B.S. CIH
Reg. No. G-52718
Industrial Health Consultant

Authorised Signature

ECG REPORT

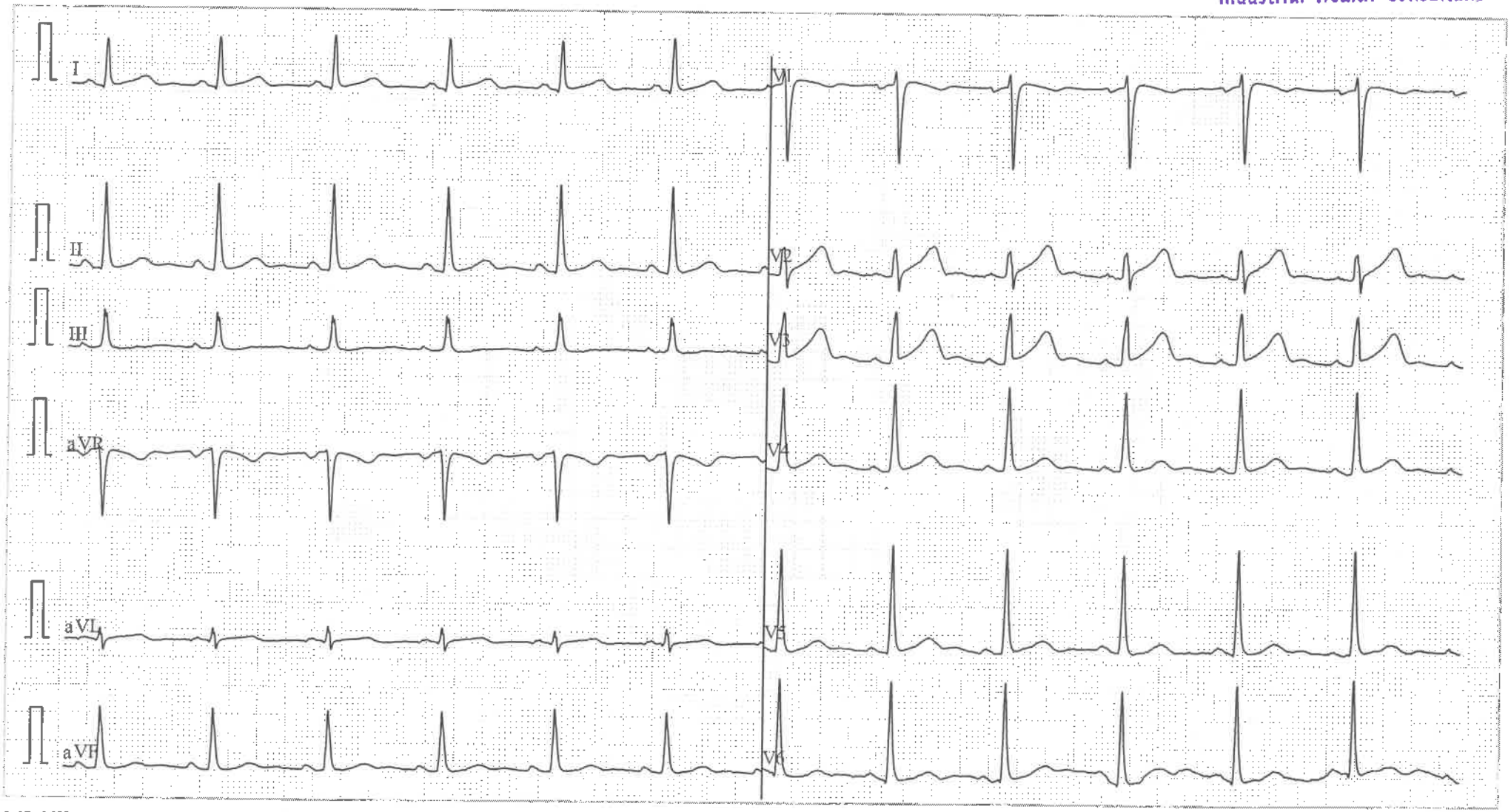
ID : Years Male inch lb. / mmHg Race:Unknown Room No.:
Department: Exam.Room: Medication:

HR	: 73 bpm	Diagnosis Information:
P	: 103 ms	Sinus Rhythm
PR	: 143 ms	***Normal ECG***
QRS	: 95 ms	
QT/QTc	: 407/450 ms	
P/QRS/T	: 47/59/29 °	
RV5/SV1	: 1.831/1.400 mV	

DESHRAJ

Technician :
Ref-Phys. :
Report Confirmed by:

Dr. PRIYANKA KHER
M.B.B.S. CIH
Reg. No. G-52718
Industrial Health Consultant



0.67~25Hz AC50 25mm/s 10mm/mV 2*5s ♥73 V1.0 SEMIP V1.7

11:06:57 AM

Adequacy Certificate of Environmental Management System

M/s. Sophisticated Instrumentation Centre for Applied Research & Testing, Vallabh Vidyanagar of is recognized by the GPCB, Gandhinagar under the Environmental Audit Scheme introduced by the Hon'ble High Court Gujarat, vide its orders dtd. 20/12/1996 and 13/3/1997 and modified order dtd.16/9/1999, as an environmental auditor for the purpose of the auditing, having carried out Environmental audit of,

- **M/s. Grasim Industries Limited (Chemical Division)**
- Located at; Plot No. 1, GIDC Industrial Estate, Vilayat Village, Ta. Vagra, Dist. Bharuch, Gujarat
- Manufacturing products: As Under

SR. NO.	Name of Products	Quantity		
		Existing	Proposed	Total
1.	Caustic Soda Lye	365000	146000	511000
2.	Hydrogen	102200000 Nm^3	40880000 Nm^3	143080000 Nm^3
3.	Liq Cl2/Sodium Hypochlorite/HCl	328500	250390	578890
4.	Poly Aluminium Chloride	250000	0	250000
5.	Chlorinated Paraffin Wax	70000	0	70000
6.	Aluminium Chloride	25000	0	25000
7.	Stable Bleaching Chloride	61000	0	61000
8.	Phosphoric Acid	35000	0	35000
9.	Calcium Chloride	87600	0	87600
10.	Captive Power Plant	141 MW	0	141 MW
11.	Aluminium Chlorohydrate (Super Coagulant)	5000	0	5000
12.	Calcium Hypochlorite (High strength Bleaching Powder- HSBP)	24000	0	24000
13.	Sodium Sulphate	2672	0	2672
14.	Methyl Chloride	54000	0	54000
15.	Methylene Chloride (50-80% of total Production)			
16.	Chloroform (15-40% of total production)			
17.	Carbon Tetra Chloride (5-10% of total Production)			

Having completed the environmental audit based on personal monitoring, and audit report, prepared as per the direction of the Hon'ble High Court in Environmental Audit Scheme, it is certified that the Environmental Management System (EMS) provided by this industry for the products manufactured and capacity as stated above is

Adequate & Efficient to achieve the quality ofeffluents (Air + Waste Water + Solid Waste) as specified in consent/Notifications by GPCB, Gandhinagar for the following quantity of waste generation:

Liquid effluent	5975.8 KL/Day
Solid/Hazardous Waste	As per consent
Air emission (flue gas Stacks as well as process stacks	**Adequate/~~not adequate,~~** **~~efficacious/not efficacious~~** (Pl. strike out which is not applicable.)

This certificate is valid for the audit report only. However, it is subject to automatic cancellation in case of any change in product profile/capacity, quality and quantity of effluent emission (Air + Waste Water + Solid/Hazardous) and efficiency of EMS equipments.

This Certificate forms part of environmental audit report

Name & Address of the **ENVIRONENMENTAL AUDITOR**

Sophisticated Instrumentation Center for Applied Research and Testing, Vallabh Vidyanagar-388120

Signature of **ENVIRONENMENTAL AUDITOR**

Date :

Place: Vallabh Vidyanagar

This is to certify that the following samples of emissions (air, water, waste water, solid and hazardous wastes) have been collected and analyzed as per the following details:

Sample details	Sampling location	Collected by	Sample collection	
			Date	Time
Water Samples	ETP	Mr. Hardik Parekh	18/10/2024 21/02/2025 27/03/2025	Afternoon
Hazardous waste	ETP	Mr. Hardik Parekh	18/10/2024 21/02/2025	Afternoon
Stack Emission	Stack Attached	Mr. Rajesh Patel/Mr. Alpesh Parmar	17-18/10/2024 20-21/02/2025 26-27/03/2025	Hole Day

1	Parameters analyzed on site: pH,Temp.
2	Parameters analyzed off site: As per consent
3	Whether samples were preserved as per standard procedure for offsite analysis: Yes
4	Parameters analyzed by auditors team: As per consent
5	Parameters analyzed by third party :NA - Name & Address of the laboratory :SICART, Vallabh Vidyanagar-388120 - Whether the laboratory is classified under Schedule I of the GPCB :Yes
6	Method followed for analysis : - Air emission :As per Standard Method - Water/Waste Water : As per Standard Method - Solid Waste : As per Standard Method - Hazardous Waste : As per Standard Method

This is to certify that the third party laboratory in which the analysis has been done is approved under EPA/Accredited by NABL/recognized under Schedule I of GPCB.

Name & Address of the **ENVIRONMENTAL AUDITOR**

Sophisticated Instrumentation Center for Applied Research and Testing,
Vallabh Vidyanagar-388120

Signature of **ENVIRONMENTAL AUDITOR**

Date:

Place: Vallabh Vidyanagar

Tag – CMP

CCA of the board vide order no. AWH-134967 dated 10/07/2024 valid upto 01/03/2029

<table>
<tr><th>Sr. No.</th><th>CCA Conditions</th><th>Compliance</th></tr>
<tr><td>1</td><td>Consent Order No. AWH-134967 dated 10/07/2024</td><td>Noted</td></tr>
<tr><td>2</td><td>The Consent under Water Act-1974 for conveying the industrial effluent discharge to GIDC effluent collection system line Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point. The Consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be valid upto 01/03/2029 to operate industrial plant to manufacture following products.
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Name of Product</th><th colspan="3">Quantity (MT/Annum)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Caustic Soda Lye</td><td>365000</td><td>146000</td><td>511000</td></tr>
<tr><td>2</td><td>Hydrogen</td><td>102200000 (Nm3)</td><td>40880000 (Nm3)</td><td>143080000 (Nm3)</td></tr>
<tr><td>3</td><td>Liq Cl2/Sodium Hypochlorite/ HCl</td><td>328500</td><td>250390</td><td>578890</td></tr>
<tr><td>4</td><td>Poly Alluminium Chloride</td><td>250000</td><td>-</td><td>250000</td></tr>
<tr><td>5</td><td>Chlorinated Paraffin Wax</td><td>70000</td><td>-</td><td>70000</td></tr>
<tr><td>6</td><td>Alluminium Chloride</td><td>25000</td><td>-</td><td>25000</td></tr>
<tr><td>7</td><td>Stable Bleaching Chloride</td><td>61000</td><td>-</td><td>61000</td></tr>
<tr><td>8</td><td>Phosphoric Acid</td><td>35000</td><td>-</td><td>35000</td></tr>
<tr><td>9</td><td>Calcium Chloride</td><td>87600</td><td>-</td><td>87600</td></tr>
<tr><td>10</td><td>Captive Power Plant</td><td>96 MW</td><td>-</td><td>141 MW</td></tr>
<tr><td>11</td><td>Alluminium Chlorohydrate (Super Coagulant)</td><td>5000</td><td>-</td><td>5000</td></tr>
<tr><td>12</td><td>Calcium Hypochlorite (High strength Bleaching Powder-HSBP)</td><td>24000</td><td>-</td><td>24000</td></tr>
<tr><td>13</td><td>Sodium Sulphate</td><td>2672</td><td>-</td><td>2672</td></tr>
<tr><td>14</td><td>Methyl Chloride</td><td rowspan="4">54000</td><td rowspan="4">-</td><td rowspan="4">54000</td></tr>
<tr><td>15</td><td>Methylene Chloride (50-80% of total Production)</td></tr>
<tr><td>16</td><td>Chloroform (15-40% of total production)</td></tr>
<tr><td>17</td><td>Carbon Tetra Chloride (5-</td></tr>
</table></td><td>Complied
We are manufacturing products as per granted CCA by Board only.
Actual Production capacity for last 3 month as shown in below table:</td></tr>
</table>

	10% of total Production)				

Sr. No.	Name of Product	Quantity (MT/Month)		
		Jan 25	Feb 25	Mar 25
1	Caustic Soda Lye	29440	26824	30690
2	Hydrogen	2100787	1951066	2241343
3	Liq Cl2/Sodium Hypochlorite/HCl	26977	24705	28382
4	Poly Alluminium Chloride	16637	13796	18064
5	Chlorinated Paraffin Wax	3074	3520	3242
6	Alluminium Chloride	1643	1484	1643
7	Stable Bleaching Chloride	2255	2208	2332
8	Phosphoric Acid	0	0	0
9	Calcium Chloride	0	0	0
10	Captive Power Plant	82 MW	77 MW	82 MW
11	Alluminium Chlorohydrate (Super Coagulant)	455	38	600
12	Calcium Hypochlorite (High strength Bleaching Powder-HSBP)	558	515	690
13	Sodium Sulphate	12	35	48
14	Methyl Chloride	4051	3675	4417
15	Methylene Chloride (50-80% of total Production)			
16	Chloroform (15-40% of total production)			
17	Carbon Tetra Chloride (5-10% of total Production)			

SPECIFIC CONDITIONS

a)	Unit shall comply the Ozone Depleting Substances (Regulation and Control) Rules, 2000 & its amendments	**Complied** We have received ODS Registration under Form 9 for Producer & Form 10 for Seller from Ozone Cell, MoEFCC, Delhi.
b)	Unit shall comply Notification of MoEF&CC dated 07/12/2015 and its subsequent amendments for CPP.	**Complied** We are complying all the conditions stipulated under Notification of MoEF&CC dated 07/12/2015
c)	Unit shall dispose / manage Phosphogypsum as per guidelines /directions of CPCB published from time to time and maintain complete record of its generation & disposal/management.	**Complied** The Phosphogypsum sludge has been disposed as per guidelines of CPCB published from time to time and maintaining complete record of its generation & disposal.
d)	Unit shall have to ensure that generated Phosphogypsum waste is disposed/manage in Environmentally sound manner.	**Complied** The Phosphogypsum sludge has been managed in Environmentally Sound manner only.
e)	Product Sodium Sulphate shall have purity higher than 99%.	**Complied** We are maintaining purity of our Product Sodium Sulphate which is higher than 99%.
f)	Unit shall comply EC dated 04/02/2019 and 10/06/2021.	**Complied.** Half yearly EC Compliance report is being submitted to GPCB, MoEFCC & SEIAA. Also uploading the same on Parivesh portal.
g)	Unit shall not carry out any activity/production which attracts the EIA Notification dated 14/09/2006 and its amended thereafter without obtaining Environment Clearance for the same.	**Noted & Complied** We are producing or carrying out activities for products/process as per EIA Notification dated 14/09/2006 as amended from time to time and we have obtained prior EC from the SEIAA.
h)	Unit shall not procure any hazardous waste without obtaining Rule-9 permission under the HOWR-2016 and necessary amendment in CTE/CCA.	**Not Applicable** At our site, we are not procuring any Hazardous Waste.
i)	Unit shall strictly follow the Fly Ash Notification for disposal of generated Ash.	**Complied** We are strictly following Fly Ash Notification for disposal of Ash.

<table>
<tr><td></td><td></td><td>At our site we are maintaining 100% utilization of Ash till date.</td></tr>
<tr><td>j)</td><td>Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.</td><td>Complied
We are strictly following Coal Handling guideline farmed by Board and provided 3 nos. of Close Ash handling Silos.</td></tr>
<tr><td>k)</td><td>All the efforts shall be made to send hazardous waste to authorized co-processing facility/pre-processing facility/cement industry first & there after it shall be disposed through other option.</td><td>Noted & Complied
Recently we have explored one of our Incinerable waste for Pre-processing unit and CCA for the same also received.</td></tr>
<tr><td>l)</td><td>Unit shall comply office order dated 03/06/2021 regarding APMC for SO_2 emission control.</td><td>Complied
At our site we have provided Lime dosing system as an APCM for SO2 emission Control.</td></tr>
<tr><td>m)</td><td>Unit shall provide and operate OCMS as per CPCB's guidelines/directives</td><td>Complied
We have provided OCMS and operating the same as per CPCB's guideline only.</td></tr>
<tr><td>3</td><td colspan="2">CONDITIONS UNDER THE WATER ACT:</td></tr>
<tr><td>3.1</td><td>The quantity of the Total Water consumption shall not exceed 14851.8 KLD as per below Break up
<table>
<tr><th rowspan="2">Type</th><th colspan="3">Water Consumption (KLD)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>Domestic</td><td>474.5</td><td>1</td><td>475.5</td></tr>
<tr><td>Industrial</td><td>13645.3</td><td>731</td><td>14376.3</td></tr>
<tr><td>Total</td><td>14119.8</td><td>732</td><td>14851.8</td></tr>
</table></td><td>Complied
The quantity of total water consumption is as per prescribed limit only.</td></tr>
<tr><td>3.2</td><td>The quantity of total wastewater generation shall not exceed 3759.1 KL/day as per below Break up
<table>
<tr><th rowspan="2">Type</th><th colspan="3">Wastewater Generation (KLD)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>Domestic</td><td>359.6</td><td>1</td><td>360.6</td></tr>
<tr><td>Industrial</td><td>3290.5</td><td>108</td><td>3398.5</td></tr>
<tr><td>Total</td><td>3650.1</td><td>109</td><td>3759.1</td></tr>
</table></td><td>Complied
The quantity of total Wastewater generation is as per prescribed limit only.</td></tr>
<tr><td>3.3</td><td>Treatment & Disposal mode of Wastewater:
a) Chemical Division:
• 2016.5 KLD industrial wastewater shall be generated from Chemical division.
• Washing wastewater 150 KLD, cooling wastewater 230 KLD and process wastewater 73 KLD shall be reused for industrial purpose.
• Cooling bleed off 147 KLD and process wastewater 20 KLD shall be treated in RO. RO permeate 117 KLD shall be reused for industrial purpose and RO reject 50 KLD shall be reused in coal sprinkling, road cleaning & fly ash sprinkling.
• Wastewater from cooling tower 5 KLD, process 26 KLD and DM Plant 27 KLD shall be treated in water treatment plant followed by RO. RO Permeate 53 KLD shall be reused for industrial purpose. RO Reject 5 KLD shall be sent to ETP.
• Wastewater from safety shower 4.5 KLD, scrubber 5 KLD, washing 172 KLD, cooling tower 352 KLD, process 805 KLD and RO Reject 5 KD shall be treated in ETP.
• Treated wastewater from ETP 99.5 KLD shall be reused for coal sprinkling, road cleaning & fly ash sprinkling.
• After confirming standards, treated wastewater from ETP 1220 KLD shall be disposed into GIDC effluent collection system line – Dahej Vilayat pipeline/Common disposal system.
b) CPP:</td><td>Complied
• At our site we are maintaining treatment of all wastewater as segregated in conditions.
• The discharge quantity of wastewater is not being exceed from 1220 KLD.
• Domestic wastewater is being reused for gardening purpose only after confirming GPCB norms.
• We are carried out third party monitoring from Reputed NABL approved laboratory on monthly basis.</td></tr>
</table>

<table>
<tr><td></td><td>

1382 KLD industrial wastewater generated from CPP shall be treated in ETP consist of primary treatment units followed by RO. RO permeate 1106 KLD shall be reused for industrial purpose and RO reject shall reused in coal sprinkling (100 KLD), road cleaning (76 KLD) & fly ash sprinkling (100 KLD). Unit shall maintain ZLD for wastewater generated from CPP.

c) 360.6 KLD domestic Wastewater shall be treated in STP. After confirming following standards, treated wastewater shall be reused for gardening purpose within premises.
<table>
<tr><th>Sr. No.</th><th>Parameters</th><th>GPCB Norms</th></tr>
<tr><td>1</td><td>pH</td><td>6.5 to 9</td></tr>
<tr><td>2</td><td>Total Suspended Solids (TSS)</td><td><100 mg/l</td></tr>
<tr><td>3</td><td>Total Coliform (MPN/100ml)</td><td><1000 MPN/100 ml</td></tr>
<tr><td>4</td><td>BOD</td><td>30 mg/l</td></tr>
</table>
</td><td></td></tr>
<tr><td>3.4</td><td>The quality of treated effluent shall conform to the following standards prior to disposal GIDC Sewer line Dahej-Vilayat Pipeline / Common disposal system upto the sea for final disposal at NIO designated point.
<table>
<tr><th>Parameters</th><th>Permissible Limit</th></tr>
<tr><td>pH</td><td>6 to 9</td></tr>
<tr><td>Temperature</td><td>Shall not exceed more than 5^{O}c above ambient water temperature</td></tr>
<tr><td>Total Suspended Solids</td><td>100 mg/l</td></tr>
<tr><td>Oil & Grease</td><td>10 mg/l</td></tr>
<tr><td>Phenolic Compounds</td><td>5 mg/l</td></tr>
<tr><td>Cyanides</td><td>0.2 mg/l</td></tr>
<tr><td>Fluoride</td><td>15 mg/l</td></tr>
<tr><td>Sulphides</td><td>5 mg/l</td></tr>
<tr><td>Ammonical Nitrogen</td><td>50 mg/l</td></tr>
<tr><td>Total Kjeldahl nitrogen (TKN)</td><td>50 mg/l</td></tr>
<tr><td>Nitrate Nitrogen</td><td>50 mg/l</td></tr>
<tr><td>Total Res. Chlorine</td><td>1 mg/l</td></tr>
<tr><td>Arsenic</td><td>0.2 mg/l</td></tr>
<tr><td>Trivalent Chromium</td><td>2 mg/l</td></tr>
<tr><td>Hexavalent Chromium</td><td>0.1 mg/l</td></tr>
<tr><td>Copper</td><td>3 mg/l</td></tr>
<tr><td>Lead</td><td>0.1 mg/l</td></tr>
<tr><td>Mercury</td><td>0.01 mg/l</td></tr>
<tr><td>Nickel</td><td>3 mg/l</td></tr>
<tr><td>Zinc</td><td>15 mg/l</td></tr>
<tr><td>Cadmium</td><td>0.05 mg/l</td></tr>
<tr><td>BOD (3 Days at 27^{o}C)</td><td>100 mg/l</td></tr>
<tr><td>COD</td><td>250 mg/l</td></tr>
<tr><td>Selenium</td><td>0.05 mg/l</td></tr>
<tr><td>Vanadium</td><td>0.2 mg/l</td></tr>
<tr><td>Manganese</td><td>2 mg/l</td></tr>
<tr><td>Iron</td><td>3 mg/l</td></tr>
<tr><td>Bio-Assey Test</td><td>90% survival of fish after 96 hrs in 100% effluent</td></tr>
</table>
</td><td>Complied

We are confirming the GPCB prescribed standards for treated effluent prior to disposal.
We are carried out third party monitoring from Reputed NABL approved laboratory on monthly basis.

</td></tr>
<tr><td>3.5</td><td>The treated effluent confirming to the above standards shall be discharged into GIDC pipeline for</td><td>Noted & Complied</td></tr>
</table>

	ultimate disposal into deep sea at NO designated point.	• At our site we are confirming the above standards before discharge into GIDC pipeline for ultimate disposal into deep sea.
3.6	Unit shall be required to make storage facilities to store the treated effluent for at least 48 hours by providing acid proof brick lined impervious tanks/HDPE tanks.	**Complied** • We have provided adequate storage facility to store the treated effluent for at least 48 hours.
3.7	Unit shall implement and follow communication plan so that respected work can be done in minimum response time in case of emergencies.	**Noted & Complied** • At our site, we have made a communication matrix plan so that respected work being done in minimum response time in case of emergencies.
3.8	Unit shall provide online monitoring system for pH, TOC and other parameters with recorder and magnetic flow meters for flow measurement of treated wastewater, if applicable as per CPCB's norms/guidelines/directives.	**Complied** • At our site, we have provided online monitoring system for pH, TOC, Flow & TDS and magnetic flow meter for flow measurement of treated wastewater. • Please the same is also connected with GPCB/CPCB server for real time monitoring.
3.9	Unit shall have only one authorized outlet over the ground with full access from outside the premises.	**Complied** • At our site, only one authorized outlet situated at Fiber division premises over the ground with full access from outside the premises.
3.10	In case of shut-down of plant for more than three (3) days for any reason, member unit shall intimate to GIDC/Pipeline Project authority & GPCB well in advance for the better operation & management of pipeline.	**Noted** • We are ensuring you that in case of shut-down of plant for more than 3 days for any reason, we will intimate to GIDC & GPCB well in advance for the better operation & management of pipeline.
3.11	Unit shall make fixed arrangement for discharge of effluent from the final collection tanks to the underground drainage network of GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system. Unit shall not keep any by-pass line or system or loose or flexible pipeline for discharge of the effluent into underground drainage network pipeline.	**Noted & Complied** • At our site we have provided fixed arrangements for discharge of effluent and there is no any by-pass line or system or loose or flexible pipeline for discharge of the effluent.
3.12	Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tank/ETP to measure the quantity of effluent discharged into the underground drainage network of GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system.	**Complied** • We have provided Magnetic flow meters at the inlet & outlet of ETP to measure the quantity of effluent.
3.13	Unit shall affix of water meters for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days ant it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.	**Complied** • At our site, we have provided Water flow meters for the purpose of measuring & recording the quantity of water consumption in plant different areas. • Log sheet for the same has been maintained on daily basis.
3.14	Unit shall provide adequate/safe effluent sampling facility for the effluent being stored in final collection/discharge tank of ETP or being discharged into GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system upto the sea for final disposal at NIO designated point.	**Complied** • We have provided a safe effluent sampling facility for inlet & outlet.
3.15	Unit shall either stop or curtail its production activities if the effluent is not conforming to the standards of GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system specified by GPCB.	**Noted** • We are ensuring you that we will stop production activities if the effluent will

		not confirm the standards of GIDC & GPCB before discharge.
3.16	The authorized representative of GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system project shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of unit.	**Noted**
3.17	Unit shall have to keep accurate records of quality and quantity of effluent discharged to GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as and when asked.	**Noted & Complied** • At our site we have provided OCMS & magnetic flow meter at outlet of ETP for recording effluent discharge quality & quantity and the logbook also maintained on regular basis.
3.18	Unit shall keep accurate records of quality of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on the day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.	**Complied** • We are maintaining records of quality of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on the day to day basis and upload the all data on GPCB XGN site as Monthly Patrak.
3.19	In case of incinerator of MEE, the flow measuring devices for mother liquor/toxic effluent/ Non-biodegradable effluent, light diesel oil, etc. i.e. Fuel used for combustion, air used for combustion shall be separately provide. Incinerator temp recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.	**Not Applicable** At our site we have no Incinerator
3.20	Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.	**Complied** • At our site, we have provided separate disposal system for storm water and in no circumstances storm water mixed with the industrial effluent. • We have provided bund walls, Valve gates at different location of storm water line to avoid ingress of industrial effluent to storm water.
3.21	Leachate from the hazardous/solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system	**Complied** • We have provided leachate collection system which is transferred to ETP through pump for treatment and after treatment it is discharged to GIDC effluent collection system.
3.22	If the GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system Project authority terminates the membership of Pipeline project, the member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the membership is resumed.	**Noted**
3.23	The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environment Management Cell/Unit shall directly report to Chief Executive of the Organization and shall work as a focal point for internalizing environmental issued. These cells also coordinate the exercise of	**Complied** • At our site, separate Environment management cell is provided with 4 nos. person. The head of the team is directly reporting to Unit Head of our unit and Unit head is directly reporting to Chief Executive of the Organization. • The team is work as a focal point for internalizing environmental issues.

<table>
<tr><td></td><td>environmental audit and preparation of environmental statements.</td><td>• Also the team coordinate the exercise of environmental audit and preparation of environmental statements.</td></tr>
<tr><td>3.24</td><td>The Environment audit shall be carryout yearly, if applicable. The environmental statements pertaining the previous year shall be submitting to this State Board latest by 30th September every year.</td><td>Complied
• As per the legal requirement, at our site we are carried out Schedule I Environment Audit on yearly basis and the report of the same submitted to GPCB office on or before 30th June every year.
• Also we are submitting Environmental Statement (Form V) to GPCB office on or before 30th September every year.</td></tr>
<tr><td>3.25</td><td>The Board reserves the right to review and/or revoke the consent and/or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.</td><td>Noted</td></tr>
<tr><td>4.</td><td>CONDITIONS UNDER THE AIR ACT:</td><td></td></tr>
<tr><td>4.1</td><td>The following shall be used as fuel:
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Fuel</th><th colspan="3">Quantity</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Coal</td><td>3100 MT/Day</td><td>-</td><td>3100 MT/Day</td></tr>
<tr><td>2</td><td>HSD</td><td>57.6 KLD</td><td>9.6 KLD</td><td>67.2 KLD</td></tr>
<tr><td>3</td><td>Hydrogen</td><td>4800 NM^3/Day</td><td>119386.43 NM^3/Day</td><td>124186.43 NM^3/Day</td></tr>
</table></td><td>Noted & Complied
Last 3 month data of Fuel consumption are as below:
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Fuel</th><th colspan="3">Quantity (MT/M)</th></tr>
<tr><th>Jan-25</th><th>Feb-25</th><th>Mar-25</th></tr>
<tr><td>1</td><td>Coal</td><td>66168</td><td>56233</td><td>64680</td></tr>
<tr><td>2</td><td>HSD</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>3</td><td>Hydrogen</td><td>0</td><td>0</td><td>0</td></tr>
</table></td></tr>
<tr><td>4.2</td><td>The flue gas emission through stack shall conform to the following standards:
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Stack attached to</th><th rowspan="2">Stack height in meters</th><th rowspan="2">APCM</th><th>Air emission</th></tr>
<tr><th>Parameter & Permissible limit</th></tr>
<tr><td colspan="5">Existing</td></tr>
<tr><td>1.</td><td>Boiler 1 & 2</td><td>125</td><td>ESP, Low NO_X burner, Lime Dosing</td><td>PM - 50 mg/Nm^3
SO_X - 600 mg/Nm^3
NO_X - 450 mg/Nm^3
Hg – 0.03 mg/Nm^3</td></tr>
<tr><td>2.</td><td>Boiler 3 & 4</td><td>125</td><td>ESP, Low NO_X burner, Lime Dosing</td><td>PM - 30 mg/Nm^3
SO_X - 100 mg/Nm^3
NO_X - 100 mg/Nm^3
Hg – 0.03 mg/Nm^3</td></tr>
<tr><td>3.</td><td>D. G. Sets (1875 KVA - 4 Nos.)</td><td>36</td><td rowspan="2">--</td><td>PM - 150 mg/Nm^3
SO_X - 100 mg/Nm^3
NO_X - 50 mg/Nm^3</td></tr>
<tr><td>4.</td><td>D. G. Sets (750 KVA - 3 Nos.)</td><td>11</td><td>PM - 150 mg/Nm^3
SO_X - 100 mg/Nm^3
NO_X - 50 mg/Nm^3</td></tr>
</table></td><td>• Complied
• We are conforming the GPCB prescribed standards for flue gas emission.
• Also please note that Online Monitoring facility has been provided for Boiler 1 & 2 and 3&4 which are also connected with GPCB & CPCB server for real time tracking.
• We are also carried out monthly monitoring from NABL approved laboratory and report is being uploaded on GPCB XGN site in Monthly patrak.</td></tr>
</table>

5.	Stack attached to primary coal crusher-1	22.4	Bag Filter	PM - 150 mg/Nm^3	
6.	Stack attached to primary coal crusher-2	30.3	Bag Filter	PM - 150 mg/Nm^3	
7.	Volatile reduction chamber	35	Water & Caustic Scrubber	NO_X - 50 ppm HCl- 20 mg/m3 Cl_2- 9 mg/m3	
Proposed					
8.	DG Set (750 KVA)	11	-	PM- 150 mg/Nm3 SOx- 100 ppm NOx- 50 ppm	
9.	DG Set (1875 KVA)	36		PM- 150 mg/Nm3 SOx- 100 ppm NOx- 50 ppm	
10	Flaker Plant (Stand by)	40		PM- 150 mg/Nm3 SOx- 100 ppm NOx- 50 ppm	

4.3 The process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards.

Sr. No.	**Stack attached to**	**Stack height in meters**	**Air Pollution Control System**	**Air emission Parameter & Permissible Limit**
Existing				
1	Sodium Hypo stack 1 (Caustic Plant)	35	Alkali Scrubber	Cl_2 - 9 mg/Nm3 HCl - 20 mg/Nm3
2	HCl stack-1 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	HCl - 35 mg/Nm3
3	HCl stack 2 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	
4	Poly Aluminium Chloride liquid	35	Water scrubbing system	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
5	Chlorinated	35	Alkali scrubbing system	HCl - 20 mg/Nm3

- **Complied**
- We are conforming the GPCB prescribed standards for process emission.
- Online Monitoring facility has been provided for Sodium Hypo stack 1 & 2 and HCl stack 1, 2, 3 and 4 which are also connected with GPCB & CPCB server for real time tracking.
- We are also carried out monthly monitoring from NABL approved laboratory and report is being uploaded on GPCB XGN site in Monthly patrak.

	Paraffin Plant			Cl_2 - 9 mg/Nm3
6	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
7	Stable Bleaching Powder Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
8	Phosphoric Acid	35	Water Scrubber	HCl - 20 mg/Nm3 HF - 6 mg/Nm3
9	Calcium Chloride	35	Water Scrubber	HCl - 20 mg/Nm3
10	Sodium Hypo stack 2 (Caustic Plant)	35	Alkali Scrubber	Cl_2 - 9 mg/Nm3
11	HCl stack 3 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	HCl - 35 mg/Nm3
12	HCl stack 4 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	
13	Poly Aluminium Chloride liquid-2	35	Water Scrubber System	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
14	Poly Aluminium Chloride powder-1	35	3 stage Water Scrubber	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
15	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
16	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
17	Stable Bleaching Powder Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl_2 - 9 mg/Nm3
18	Vent attached to reactor	35	--	H2 gas *
19	Vent attached to dryer-1 (HSBP)	21	Bag Filter	PM < 150 mg/Nm3
20	Vent attached to dryer-2 (HSBP)	21	Bag Filter	PM < 150 mg/Nm3

	21	Vent attached to reaction vessel-1 (HSBP)	21	Water/ Caustic Scrubber	Cl_2 < 5 mg/Nm3
	22	Vent attached to reaction vessel-2 (HSBP)	21	Water/ Caustic Scrubber	Cl_2 < 5 mg/Nm3
	23	Hydro Chlorinator – CMS Plant	35	Alkali Scrubber	HCl-20mg/Nm3
	24	Crude CMS Distillation CMS Plant	35	Condenser and guard condenser with cooling water circulation & chilled circulation	VOC-1µg/m3
	25	Heavies CMS Distillation CMS Plant	35		

4.4	The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder: - **Sr. no. / Parameter / Permissible Limit (microgram/m3): Annual / 24 Hours Average** 1 Particulate matter (PM10) 60 100 2 Particulate matter (PM2.5) 40 60 3 Sulphur Dioxide (SO2) 50 80 4 Nitrogen Dioxide (NO2) 40 80 • Annual arithmetic mean of minimum of 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals. • 24 hourly or 8 hourly or 1 hourly monitored values as applicable, shall be complied with 98% of the tome in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.	**Complied** • The concentration of listed all parameters of Ambient air are well within the permissible limit. • We confirming the same by Monthly monitoring reports carried out by Third party of NABL approved laboratory. • Also we have provided 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat) and 3 nos. of ambient air quality monitoring stations (CAAQMS) inside the premises at boundary.
4.5	Unit shall operate industrial plant/ air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.	**Complied** • All the Air Pollution Control equipment and industrial plant is operated very efficiently and continuously. • We are confirming the same by Monthly monitoring reports carried out by Third party of NABL approved laboratory
4.6	The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.	**Noted**
4.7	Unit shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/ and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by	**Complied** • Port-hole, platform/ ladder etc. as stack monitoring facilities have been provided to facilitate sampling.

<table>
<tr><td></td><td>numbers such as S-1, S-2 etc. and these shall be painted/ displayed to facilitate identification.</td><td></td></tr>
<tr><td>4.8</td><td>Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m and night time is reckoned between 10 p.m. and 6 a.m.</td><td>Complied
The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation.
The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules.
Third party ambient noise monitoring is carried out by NABL accredited laboratory.</td></tr>
<tr><td>4.9</td><td>All efforts shall be made to control VOC emissions and odour problem, if any.</td><td>Not Applicable</td></tr>
<tr><td>5.</td><td colspan="2">GENERAL CONDITIONS:</td></tr>
<tr><td>5.1</td><td>In Case of change of ownership/management the name and address of the new ownership/ partners/ directors/proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this board.</td><td>Noted</td></tr>
<tr><td>5.2</td><td>Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the destiny of plantation is at least 1000 trees per acre of land and a green belt of 5 m width is developed.</td><td>Noted & Complied
At our site we have provided adequate plantation all along the periphery of the industrial premises.</td></tr>
<tr><td>5.3</td><td>Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/process and the name of partners/ directors/ proprietors of the unit and the electricity consumer number as on the record of DGVCL.</td><td>Complied
At our site, we have provided a Display Board in both language (Gujarati & English) displaying the name of unit, products, Raw materials, Haz Waste, Air emission wrt CCA.
We have also provided online display screen at main gate showing all above data.
Also the policies are displayed with the name of director.</td></tr>
<tr><td>6.</td><td colspan="2">AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (see rule 6(2))</td></tr>
<tr><td>6.1</td><td>Number of Authorization: AWH-134967</td><td>Noted</td></tr>
<tr><td>6.2</td><td>M/s. GRASIM INDUSTRIES LIMITED- CHEMICAL DIVISION) is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Plot No. 1, GIDC, Vilayat-392140, Tal: Vagra, Dist: Bharuch.
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Type of Waste</th><th rowspan="2">Category</th><th colspan="3">Qty. MT/Year</th><th rowspan="2">Disposal</th></tr>
<tr><th>Exi.</th><th>Pro.</th><th>Total</th></tr>
<tr><td>1</td><td>Chemical sludge from Waste water treatment</td><td>35.3</td><td>10005</td><td>2557</td><td>12562</td><td>Collection, storage, transportation & disposal at approved TSDF or authorized actual end users having rule-9 permission and valid CCA after making MOU.</td></tr>
<tr><td>2</td><td>Spent Catalyst</td><td>17.2</td><td>50</td><td>0</td><td>25</td><td>Collection, storage, transportation & disposal at</td></tr>
</table></td><td>Complied
Collection, Storage, Transportation and disposal of wastes is being carried out as per granted CC&A only.</td></tr>
</table>

						approved TSDF Site.
3	Spent Carbon	36.2	40.33	0.07	40.4	Collection, storage, transportation & disposal at CHWIF or TSDF or authorized actual end users having rule-9 permission and valid CCA after making MOU.
4	Used Spent Oil	5.1	130 KL	100 KL	230 KL	Collection, storage, transportation & disposal by selling to registered re-refiners
5	Spent ion exchange resin	35.2	5	0.33	5.33	Collection, storage, transportation & disposal at approved TSDF Site.
6	Discarded container /	33.1	2500 nos.	318 Nos.	2818 Nos.	Collection storage, Decontamination/Detoxification, reuse or transportation and send to authorized decontamination facility
	Bags / Liners		550	54.2	604.2	
7	Incinerable Waste	36.1	142	0	142	Collection, storage, transportation, disposal at CHWIF or authorized Coprocessing/Pre-processing facility.
8	Spent Acid (HCl)	B15	142500	0	142500	Collection, storage, transportation through pipeline and disposal by consuming (60000 MT/Year) in-house in manufacturing of Poly Aluminium Chloride. Collection, storage, and disposal by sending (82500 MT/Annum) to Actual users/end-users having rule-9 permission & valid CCA after making MOU.
9	Spent Acid** (Dilute Sulphuric Acid)	B15	15500	11500	27000	Collection, storage, transportation and disposal by sending to authorised actual users/end user having rule-9 Permission & valid CCA after making MOU.
10	Bleaching Liquid (consists of 3% Hypo, 10% CaCl2, 65% to	B-7	60000	0	60000	Collection, storage, transportation and disposal by sending to authorised actual users/end user having rule-9 Permission & valid

		75% water)					CCA after making MOU.
	11	Sodium Chloride (consist of 90% NaCl)	--	6000	0	6000	Collection, storage, transportation & disposal at approved TSDF or authorised actual users/end user having rule-9 Permission & valid CCA after making MOU.
	12	Brine Sludge	16.3	6066	2934	9000	Collection, storage, transportation & disposal at approved TSDF Site.
	13	Aluminium Dross Waste	11.5	50	0	50	Collection, storage, transportation & disposal at approved TSDF or authorised actual users/end user having rule-9 Permission & valid CCA after making MOU.
	14	Insulating Material	-	25	5	30	Collection, storage, reuse, transportation and disposal at approved TSDF.
	Non-Hazardous Waste						
	15	Phosphogysum (generated from Phosphoric Acid plant)	-	302150	0	302150	Collection, Storage, transportation and disposal in Environmentally Sound manner as per the guidelines/ directions of CPCB published from time to time.
	Note: Unit shall manage/dispose Fly Ash: 1,11,600 MT/Year, E-Waste: 15 MT/Year and Battery Waste: 100 nos./Year as per prevailing rules & regulations/Notifications.						
6.3	The authorization is granted to operate a facility as above.						**Noted**
6.4	The authorization shall be in force for a period up to 01/03/2029.						**Noted**. We shall apply for the renewal of authorization before due date.
6.5	The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.						**Noted**
7.	**TERMS AND CONDITIONS OF AUTHORISATION:**						
7.1	The authorized person shall comply with the provisions of the Environment (Protection) Act - 1986 and the rules made there under.						**Noted & Complied**

7.2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	**Noted**
7.3	The persons authorized shall not rent, lend, sell, transfer of otherwise transport the hazardous and other wastes except what is permitted through authorization.	**Noted**
7.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization is being granted constitute a breach of this authorization.	**Noted**
7.5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts also carry out mock drill in this regard at regular interval of time.	**Complied** We have developed Onsite Emergency Plan and implemented mitigation measures accordingly.
7.6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environment Damages due to Handling and Disposal of Hazardous Waste and Penalty".	**Noted & Complied**
7.7	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	**Noted**
7.8	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.	**Not Applicable**
7.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	**Not Applicable**
7.10	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other waste shall be treated and disposed of as per specific conditions of authorization.	**Not Applicable**
7.11	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	**Not Applicable**
7.12	An application for the renewal of an authorization shall be made as laid down under these rules.	**Noted**
7.13	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	**Noted**
7.14	Annual Return shall be filed by June 30th for the period ensuring 31st March of the year.	**Complied** Annual return is being filled and submitted to GPCB office on or before by June 30th every year.
7.15	Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P No. 657 of 1995 dated 14th October 2003.	**Complied** • At our site, we have provided a Display Board in both language (Gujarati & English) displaying the name of unit, products, Raw materials, Haz Waste, Air emission wrt CCA. • We have also provided online display screen at main gate showing all above data.
7.16	Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.	**Complied** • At our site, we have provided a Display Board in both language (Gujarati & English) displaying the name of unit, products, Raw materials, Haz Waste, Air emission wrt CCA.

		• We have also provided online display screen at main gate showing all above data.
7.17	Unit shall have to manage used or spent oil, empty or discarded barrels/containers/liners contaminated with hazardous chemicals/waste, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P) Act-1986 and shall apply Authorization for all applicable waste.	**Noted & Complied** At our site we are managing used or spent oil, empty or discarded barrels/containers/liners contaminated with hazardous chemicals/waste, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P) Act-1986.

CSR Activities April- 25 to Sep-25

- 648 New beneficiaries have been enrolled as Health beneficiary in our Flagship programme of Mobile Medical Unit.
- Vahlu Community Sports ground benefiting more than 1000 beneficiaries which is cumulative of Youth and Children's.
- Awareness and polio vaccines drive across 9 villages and 12 booths for dissemination of polio vaccine.
- 301 Women (School Girls + Community women) given awareness of menstrual hygiene and also distribution of Pad.
- 964 packets of ORS distributed in the community and also disseminate information, awareness, prevention activities about hydration and heat strokes.
- CPR Training for 51 Individuals for emergency response.
- 41 students were given first aid training on basic, snakebite and emergency situation.

CER Activities April-25 to Sep-25

- All plantation is in good condition and have been visited by Auditors.
- Kothia Plantations started and Branding work completed.
- All Rainwater harvesting projects are in good shape visit done by Environment and Sustainability team.

CSR Photos

TÜVNORD

Certificate

TÜVNORD
TÜV NORD CERT GmbH
ISO 50001
tuev-nord.de

Management system as per

ISO 50001:2018

The Certification Body TÜV NORD CERT GmbH. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

GRASIM INDUSTRIES LIMITED

CHEMICAL DIVISION
Registered Office & Central Location: GRCD Nagda,
Birlagram, District: Ujjain – 456 331,
Madhya Pradesh,
India

operates a management system in accordance with the requirements of ISO 50001 : 2018 at the location

GRASIM INDUSTRIES LIMITED

Chemical Division, Vilayat Plot No. 1, GIDC, Vilayat Industrial Estate,
Village- Vilayat, Tehsil- Vagra, Bharuch – 392 140, Gujarat,
India

will be assessed for conformity within the 3 year term of validity of the certificate

Scope
Manufacture and Dispatch of Caustic Soda Lye & Flakes, Liquid Chlorine, Hydrochloric Acid, Dilute Sulphuric Acid, Aluminium Chloride, Poly Aluminium Chloride (Liquid & Powder), Sodium Hypochlorite, Sodium Sulphate, Compressed Hydrogen Gas, Chlorinated Paraffin, Stable Bleaching Powder, High Strength Bleaching Powder, Aluminium Chloro Hydrate, Methylene Chloride, Chloroform and Carbon Tetrachloride.

Certificate Registration No. **44 764 22393463-005**
Audit Report No. **MUM/AUD/24-25/9796**

Valid from **29.05.2025**
Valid until **28.05.2028**
Initial certification **11.03.2018**

Visit our database to verify the validity of this certificate.

Mumbai, **27.05.2025**

Certification Body at TÜV NORD CERT GmbH

This certificate is valid in conjunction with the main certificate

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen

www.tuev-nord-cert.com

DAkkS Deutsche Akkreditierungsstelle D-ZM-12007-01-00

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