



Ref: GRCD/SEIAA/31

Date: 06/01/2021

To,

State Level Environment Impact Assessment Authority, Gujarat

Gujarat Pollution Control Board,

Paryavaran Bhavan,

Sector - 10 A,

Gandhinagar - 382 010

Dear Sir,

Subject: Compliance Report of Environment Clearances

We are submitting here with the Compliance Report of the

1. Environment Clearance received vide letter No. SEIAA/GUJ/EC/(1d),4(d)&5(f)/96/2011 dated 30th May 2011 and its amendment vide Letter No. SEIAA/GUJ/EC/(1d),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 and
3. Environment Clearance vide letter No. SEIAA/GUJ/EC/5(f)&4(d)/642/2016 dated 29th October 2016 along with necessary annexure.

We hope you will find the same in order.

Yours Faithfully,

For Grasim Industries Ltd.
(Chemical Division)


Encl: As Above

CC to Ministry of Environment, Forest and Climate Change, RO, Bhopal

CC to Gujarat Pollution Control Board, HO, Gandhinagar

CC to Gujarat Pollution Control Board, RO, Bharuch

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.

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Website : www.grasimchem.com

CIN : L17124MP1947PLC000410

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

**Six Monthly Compliance Report of
Environmental Clearance
For
Grasim Industries Ltd. (Chemical Division)**

ADITYA BIRLA



Submitted to:

State Level Environment Impact

Assessment Authority

Gujarat Pollution Control Board,

Paryavaran Bhavan,

Sector – 10 A,

Gandhinagar – 382 010

Submitted By:

Grasim Industries Limited

(Chemical Division)

Plot No. 1 GIDC Vilayat Industrial

Estate, PO-Vilayat, Taluka-Vagra,

Dist: Bharuch-392012,

Gujarat, India

Period: April 2020 to September 2020

**Compliance Status Report for “Environmental Clearance”
Accorded by the SEIAA
For
Grasim Industries Ltd. (Chemical Division)**

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2	Compliance Status for Environmental Clearance of EC 2011
3	Compliance Status for Environmental Clearance of EC 2014
4	Compliance Status for Environmental Clearance of EC 2016
5	Annexures

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Accorded by the SEIAA
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5	Annexures

List of Annexure

Sr. No.	Title	Annexure No.
1	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	Annexure-1
2	Copy Name Change Name Change Letter	Annexure-2
3	Copy of PESO License	Annexure-3
4	Power Plant Stack Analysis Reports	Annexure-4
5	BEIL Membership Certificate	Annexure-5
6	Copy of English & Gujarati News Paper Advertisement of EC 2011 & 2012	Annexure-6
7	Copy of EC vide Letter No. SEIAA/GUJ/EC/5(f)/90/2014 dated 1st Aug 2014	Annexure-7
8	Copy of CTE vide Letter No. GPCB/BRCH-B/CCA-70-A(4)/ID-41279/478307 dated 10 th Dec 2012	Annexure-8
9	Photograph of CMS Project Construction Work	Annexure-9
10	Copy of English & Gujarati News Paper Advertisement of EC 2014	Annexure-10
11	Copy of EC vide Letter No. SEIAA/GUJ/EC/5(f) & 4(d)/642/2016 dated 29th Oct 2016	Annexure-11
12	Copy of GIDC Water Agreement Letter	Annexure-12
13	Treated Effluent Analysis Reports	Annexure-13
14	Domestic Wastewater Analysis Reports	Annexure-14
15	Adequacy of ETP, STP & Air Pollution Control System by third Party Evaluation	Annexure-15
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17	Work Place Monitoring Reports	Annexure-17
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21	Noise Monitoring Reports	Annexure-21
22	ISO 50001:2011 Certificate	Annexure-22
23	CCA Compliance Report	Annexure-23
24	Details of CSR Activities	Annexure-24
25	Copy of English & Gujarati News Paper Advertisement of EC 2016	Annexure-25

Introduction

1. **Grasim Chemical Division (GRCD), Vilayat** is a unit of Grasim Industries Limited, a flagship company of the US \$40 billion Aditya Birla Group, was established as a strategic backward integration for supplying Caustic Soda to Fiber Division & other group companies.
2. The plant was commissioned in March'2013 with a Caustic Soda Lye capacity of 500 MTPD (MT/ Day) and Caustic Soda Flakes capacity of 100 MTPD (MT/ Day). Grasim Cellulosic Division is a latest plant in the Pulp & Fibre business, commissioned in Apr-2014 which produces both grey VSF and specialty fibre. This is the company's first plant producing specialty grade fibre.
3. The unit produces Caustic Soda (Lye & Flakes), Hydrogen Gas, Chlorine Gas, HCl, Hypo Chlorite, ALCP, Poly Aluminum Chloride (PAC), Stable Bleaching Powder (SBP) & Chlorinated Paraffin (CP) Wax Product.
4. GRCD, Vilayat plant has implemented Quality, Environment and Safety Management Systems as per ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007. Environmental quality monitoring in & around the project site is being carried out by GPCB & NABL approved Laboratory on a regular basis.
5. Grasim's caustic soda business at Nagda, Madhya Pradesh, started with an initial capacity of 33,000 tpa, and has since grown to 440,500 tpa, making it the second-largest caustic soda manufacturer in India.
6. After commissioning caustic soda plant in Vilayat of capacity 365,000 MTPA, in Gujarat region making it the largest chlor-alkali player in India.
7. Today, Grasim's Chemical Division spans across seven chlor-alkali plants in India and offers a plethora of chlorine derivatives. The business focuses on innovation and is committed to providing customized solutions and product offerings.
8. Point wise compliance status of Environmental Clearance for GRCD, Vilayat is furnished herewith.

Compliance status of Environmental Clearance

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

Sr. No.	Stipulation	Compliance Status
	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 - 394 120, 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, CS ₂ , 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.	Copy of Environment Clearance is attached as <u>Annexure-1</u> . Copy of name change letter is attached as <u>Annexure-2</u> .

Products	Caustic Soda Lye	Liquid chlorine / Hydrochloric Acid	Hydrogen	Chlorosulphonic 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 NM ³ /Year (168000 NM ³ /Day)	73000 TPA (200 TPD)	36500 TPA (100 TPD)	31025 TPA (85 TPD)
Total Production (Tons) - April 2020 to September 2020	Nil	Nil	Nil	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) - April 2020 to September 2020	Nil	Nil	Nil	Nil	58 MW

For Grasim Industries Ltd.
(Chemical Division)

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President & Unit Head
Authorized Signatory

A.	SPECIFIC CONDITIONS:	
1	The Unit shall obtain requisite permission from PESO, Nagpur for storage of Chlorine, Hydrogen etc. before commissioning of the project.	We have obtained licenses from Petroleum And Explosives Safety Organization (PESO) for Chlorine, Hydrogen and Class B chemicals before commissioning of the project. Licenses are attached as Annexure-3 .

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)	26-02-2018	30-09-2022
G/HO/GJ/05/733 (G31658)	License to Fill Compressed Gas in Cylinders – Chlorine	07-10-2019	30-09-2028
G/HO/GJ/06/724 (G31658)	License to Store Compressed Gas in Cylinders - Chlorine	07-10-2019	30-09-2028
G/HO/GJ/05/733 (G31658)	Periodic examination and testing of chlorine gas cylinders	18-09-2020	30-09-2023
G/HO/GJ/05/738 (G31657)	License to Fill Compressed Gas in Cylinders – Hydrogen	07-10-2019	30-09-2029
G/HO/GJ/06/728 (G31657)	License to Store Compressed Gas in Cylinders – Hydrogen	07-10-2019	30-09-2029
P/HQ/GJ/15/5344 (P296022)	License to import and store Petroleum in an installation – Petroleum Class B	30-09-2019	31-12-2023
G/WC/GJ/06/1803 (G34271)	License to Store Compressed Gas in Cylinders-ALCP Plant	30-08-2013	30-09-2022

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.

Month	Water Consumption of Power Plant KL/Month
Apr-20	50091
May-20	127237
Jun-20	198964
Jul-20	257429
Aug-20	270846
Sep-20	278051
Total	1182618
Average	197103
Per day	6462

- No ground water is used for the project and entire water requirement is met through GIDC supply.
- We have obtained approval for using 35000 KLD of Gujarat Industrial Development Corporation (GIDC) Water through water supply pipeline. Following are the GIDC offer cum allotment letter details:

Sr. No.	Letter No.	Water Supply	Effluent Discharge
1	GIDC/POJ/MKT/GRASIM/575 Dated 6 th December 2006	15.60 MLD	12.48 MLD
2	GIDC/SE/CG/BRH/1236 Dated 29 th December 2016	25 MLD	19.4 MLD
3	GIDC/ENG/CE/34 Dated 9 th October 2017	55-56 MLD	—

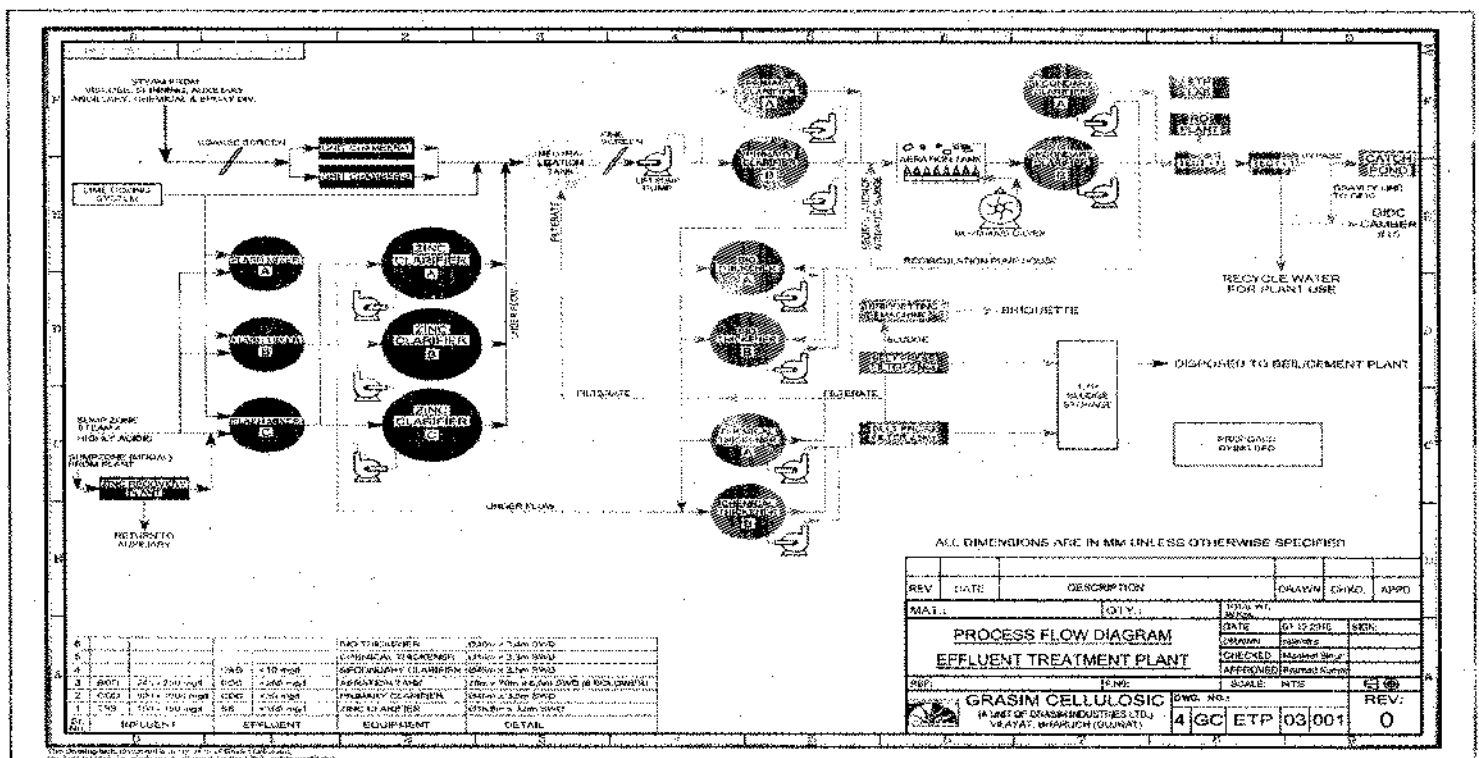
For Grasim Industries Ltd.
(Chemical Division)



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3	The Industrial effluent generation from the project shall not exceed 25600 KLD after the proposed expansion.	The Industrial effluent generation does not exceed 25600 KLD.
4	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.	<ul style="list-style-type: none"> 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.


Please Refer Effluent Treatment Plant PFD



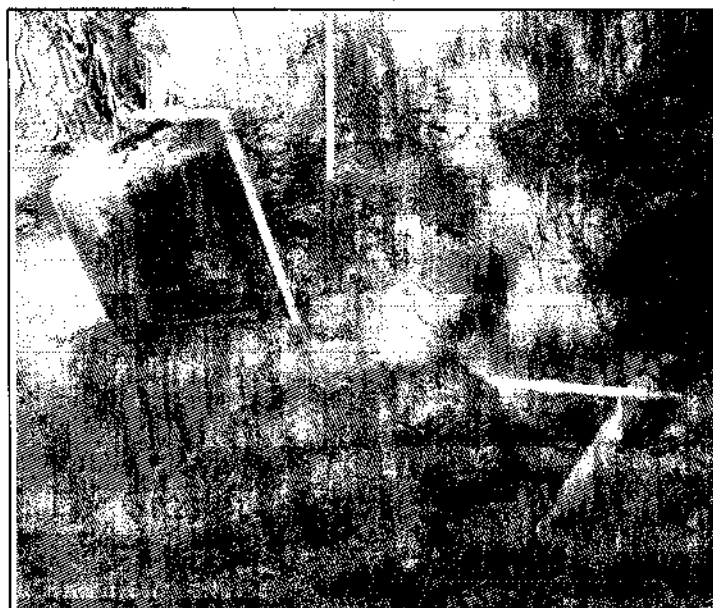
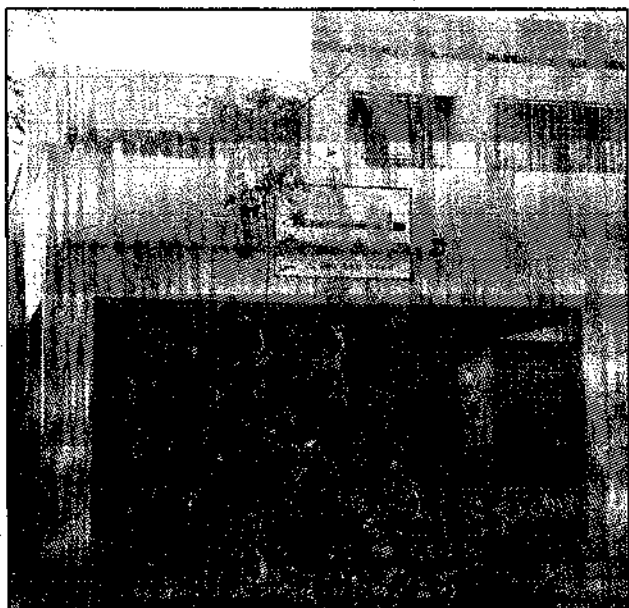
For Grasim Industries Ltd.
(Chemical Division)

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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.	The treated waste water conforming 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.	<ul style="list-style-type: none"> 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. Photograph of Guard Pond 
7	The domestic waste water generation shall not exceed 800 KLD after the proposed expansion.	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.	<ul style="list-style-type: none"> 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: 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
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.	<ul style="list-style-type: none"> 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.



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10	The Unit shall provide metering facility at the inlet and outlet of the ETP & STP and maintain the record of the same.	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 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.	<ul style="list-style-type: none"> 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.
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.	Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor (M. S. Patel Department of Civil Engineering, CSPIT, CHARUSAT) 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.	<ul style="list-style-type: none"> Rainwater is recovered from flat roof tops and stored in a rain water harvesting well near admin building to conserve fresh water and reduce the water requirement from other sources. We are exploring the possibilities for rainwater harvesting in nearby area in consultation with a Geo-hydrology expert. Photograph of Rain water harvesting in school of Saladara village.




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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.	<ul style="list-style-type: none"> 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.2 AIR:		
15	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.	We have provided 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.	<ul style="list-style-type: none"> 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.
c	Bleaching Powder Plant, Aluminum Chloride Plant and Chlorinated Paraffin Plant -Alkali scrubbers of absorption of Cl ₂ emission.	We have provided Alkali Scrubber for the absorption of Cl ₂ emission in Bleaching Powder Plant, Aluminum Chloride Plant & Chlorinated Paraffin Plant.
d	Sulphuric Acid Plant-DCDA system in manufacturing and scrubbing system.	<ul style="list-style-type: none"> 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.
e	Chlorosulphonic Acid Plant-Acid scrubber for absorption of SO ₃ emissions.	Chlorosulphonic Acid project is not implemented in chlor-alkali unit yet.
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.	<ul style="list-style-type: none"> 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.


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17	Natural gas shall be used as a raw material in the CS ₂ Plant. Thus, there shall be no CS ₂ & H ₂ S emission from the CS ₂ Plant.	We have upgraded Sulphur recovery system by installation of an additional scrubber so as to ensure that no CS ₂ & H ₂ S get emitted from CS ₂ Plant.																					
18	Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 96 MW Power Plant stack of 125-meter height shall be provided for the power plant. (Amended to 96 MW and 125 meters 2 Nos shall be installed.)	<p>Average Coal consumption is 1784 TPD during Apr'20 to Sep'20. Two stacks of 125 m are installed for 96 MW Power plant.</p> <table><tr><th rowspan="2">Month</th><th>Coal</th></tr><tr><th>MT/Month</th></tr><tr><td>Apr-20</td><td>6712</td></tr><tr><td>May-20</td><td>23149</td></tr><tr><td>Jun-20</td><td>35891</td></tr><tr><td>Jul-20</td><td>47307</td></tr><tr><td>Aug-20</td><td>53854</td></tr><tr><td>Sep-20</td><td>49435</td></tr><tr><td>Min.</td><td>6712</td></tr><tr><td>Max.</td><td>53854</td></tr><tr><td>Avg.</td><td>36058</td></tr></table>	Month	Coal	MT/Month	Apr-20	6712	May-20	23149	Jun-20	35891	Jul-20	47307	Aug-20	53854	Sep-20	49435	Min.	6712	Max.	53854	Avg.	36058
Month	Coal																						
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Apr-20	6712																						
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Avg.	36058																						
19	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 stack meets with the specified norms or boiler shut down totally.	<ul style="list-style-type: none">• 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 in case the emission from ESP exceeds from the specified conditions. <p>For Grasim Industries Ltd.</p>																					


President & Unit Head
Authorized Signatory

- Monthly Analysis Report from Unistar Environment & Research Lab Pvt. Ltd. refer as **Annexure-4**
- Agency & Address: Unistar Environment & Research Lab Pvt. Ltd. GIDC Char Rasta, Vapi
- NABL: TC-7753

Details of instrument Used for Monitoring:

Instrument Name: Stack Monitoring Kit VSS1

Serial No.: 467 DTJ 15

Calibration Date: 27/06/2020

Expiry Date: 26/06/2021

Month / Parameters	Power Plant Stack 1			Power Plant Stack 2		
	SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)
Apr-20	--	--	--	--	--	--
May-20	--	--	--	--	--	--
Jun-20	68	77	44	53	71	40
Jul-20	73	75	40	62	81	42
Aug-20	78	82	42	69	79	40
Sep-20	66	81	40	62	88	44
Min	66	75	40	53	71	40
Max	78	82	44	69	88	44
Avg.	71.3	78.8	41.5	61.5	79.8	41.5

Note: Due to Covid-19 pandemic, power plant was shut down and as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted in April 2020 and May 2020.

20	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.	<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • Monthly Analysis Report from Unistar Environment & Research Lab Pvt. Ltd. refer as Annexure-4 • Agency & Address: Unistar Environment & Research Lab Pvt. Ltd. GIDC Char Rasta, Vapi • NABL: TC-7753 <p>Details of instrument Used for Monitoring:</p> <p>Instrument Name: Stack Monitoring Kit VSS1</p> <p>Serial No.: 467 DTJ 15</p> <p>Calibration Date: 27/06/2020</p> <p>Expiry Date: 26/06/2021</p>		

For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
Authorized Signatory

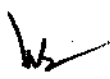
	Power Plant Stack 1			Power Plant Stack 2		
Month / Parameters	SPM (mg/Nm3)	SO2 (ppm)	Month / Parameters	SPM (mg/Nm3)	SO2 (ppm)	Month / Parameters
Apr-20	--	--	Apr-20	--	--	Apr-20
May-20	--	--	May-20	--	--	May-20
Jun-20	68	77	Jun-20	68	77	Jun-20
Jul-20	73	75	Jul-20	73	75	Jul-20
Aug-20	78	82	Aug-20	78	82	Aug-20
Sep-20	66	81	Sep-20	66	81	Sep-20
Min	66	75	Min	66	75	Min
Max	78	82	Max	78	82	Max
Avg.	71.3	78.8	Avg.	71.3	78.8	Avg.


Note: Due to Covid-19 pandemic, power plant was shut down and as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted in April 2020 and May 2020.

21	On line monitoring system shall be installed to monitor at least SO _x & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.	Online monitoring system installed at DCS / Control room of Power plant, displaying the values of SO _x & PM. Also same has been displayed at the board available at plant main gate.
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.	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.
23	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.	<ul style="list-style-type: none"> Water sprinkler (14 nos.) system has 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.
24	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).	Fugitive emissions in work zone environment & storage area are monitored by third party on monthly basis and are well within GPCB stipulated norms. For Grasim Industries Ltd. (Chemical Division)

President & Unit Head
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25	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.	Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor (Dharamsinh Desai University, Nadiad) and its record is maintained.				
26	Regular monitoring of ground level concentration of CS ₂ , SO ₂ , NO _x , 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.	<ul style="list-style-type: none">Regular monitoring of ground level concentration of CS₂, SO₂, NO_x, Cl₂, HCl, PM₁₀ and PM_{2.5} is 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).				
A.3 HAZARDOUS/SOLID WASTE:						
27	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.	<p>We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. Following is the BEIL membership details:</p> <table><tr><td>Membership No.</td><td>Oth/133 dated 22/05/2018</td></tr><tr><td>Booked Quantity</td><td>12000 MT/Year</td></tr></table> <p>Copy of the membership certificate is attached as <u>Annexure-5</u>.</p>	Membership No.	Oth/133 dated 22/05/2018	Booked Quantity	12000 MT/Year
Membership No.	Oth/133 dated 22/05/2018					
Booked Quantity	12000 MT/Year					
28	The Hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate location facility, before its disposal.	<p>We have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal.</p> <p>For Grasim Industries Ltd. (CI Control Division)</p>				


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29	The Unit disposes 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.	We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. Following is the BEIL membership details: <table><tr><td>Membership No.</td><td>Oth/133 dated 22/05/2018</td></tr><tr><td>Booked Quantity</td><td>12000 MT/Year</td></tr></table> Copy of the membership certificate is attached as Annexure-5 .	Membership No.	Oth/133 dated 22/05/2018	Booked Quantity	12000 MT/Year																
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Booked Quantity	12000 MT/Year																					
30	Discarded containers/barrels/bags/liners shall be either reused or sold only to the authorized recyclers after decontamination	We are disposing Discarded containers / barrels / bags / liners to GPCB approved registered recyclers.																				
31	Used Oils can be sold only to the registered recyclers.	Used Oil is sold to Registered recyclers.																				
32	Fly ash to be handled in dry site and handling of the fly ash shall be done through a closed pneumatic system.	Fly ash is handled in dry site and handled through closed pneumatic system. <table><tr><th>Month</th><th>Generation In MT</th></tr><tr><td>Apr-20</td><td>1234</td></tr><tr><td>May-20</td><td>4708</td></tr><tr><td>Jun-20</td><td>7170</td></tr><tr><td>Jul-20</td><td>5156</td></tr><tr><td>Aug-20</td><td>7711</td></tr><tr><td>Sep-20</td><td>6616</td></tr><tr><td>Min.</td><td>1234</td></tr><tr><td>Max.</td><td>7711</td></tr><tr><td>Average</td><td>5433</td></tr></table>	Month	Generation In MT	Apr-20	1234	May-20	4708	Jun-20	7170	Jul-20	5156	Aug-20	7711	Sep-20	6616	Min.	1234	Max.	7711	Average	5433
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33	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.	<ul style="list-style-type: none">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.																				
34	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. For Grasim Industries Ltd. (Cement Division) 	The fly ash is supplied to the manufacturer of ash based products (Manufacturer of Cement/Bricks). 100 % fly ash is utilized. <table><tr><th>Month</th><th>Generation In MT</th></tr><tr><td>Apr-20</td><td>1234</td></tr><tr><td>May-20</td><td>4708</td></tr><tr><td>Jun-20</td><td>7170</td></tr><tr><td>Jul-20</td><td>5156</td></tr><tr><td>Aug-20</td><td>7711</td></tr><tr><td>Sep-20</td><td>6616</td></tr><tr><td>Min.</td><td>1234</td></tr><tr><td>Max.</td><td>7711</td></tr><tr><td>Average</td><td>5433</td></tr></table>	Month	Generation In MT	Apr-20	1234	May-20	4708	Jun-20	7170	Jul-20	5156	Aug-20	7711	Sep-20	6616	Min.	1234	Max.	7711	Average	5433
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A.4	SAFETY:	
35	Provisions of the Manufacturing, Storage & Import of Hazardous Chemicals Rules, 1986 & Factory act 1948 shall be compiled with.	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 all activities carried out and SOPs are prepared accordingly. Safety showers are provided nearby storage areas.
36	A well designed fire hydrant system shall be installed as per the prevailing standards.	Fire hydrant system installed as per TAC (Tariff Advisory Committee) guidelines. Fire Water Reservoir Storage Capacity: 3000 KL Fire Tender Details: Water capacity: 5000 liter Foam capacity: 500 liter 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.
37	All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.	As per Chapter 6 of the EIA, we have identified the risks and take mitigative measures accordingly.


For Gracim Industries Ltd.
(Chemical Division)



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Sr. No.	Risk Mitigation Measure - Recommendations	Compliance Status
1	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.	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.
2	Critical switches and alarm should be always kept in line.	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.
3	Fire detectors should be installed near those units which handle large amount of flammable material and operate under high temperature and pressure.	Fire detectors are installed near those units which handle large amount of flammable material and operate under high temperature and pressure.
4	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.	We have provided wind indicators at 10 locations in factory premises so that in an emergency the wind direction can be directly seen and downwind population cautioned.
5	Shut off and isolation valves should be easily approachable in emergencies.	All shut off and isolation valves are located as such that it can be easily approachable in emergencies.
6	Material Safety Data Sheet and Toxicological Data should be displayed at the facility.	Material Safety Data Sheet and Toxicological Data are displayed in Hindi and English languages at the facility.

38	All necessary precautionary shall be taken to avoid any kind of accident during storage and handling of toxic/hazardous chemicals, especially chlorine, hydrogen, CS ₂ , HCl etc.	We have developed job safety analysis procedure and trainings have been provided to all employees. Proper controls are provided to mitigate any emergency.
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 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.	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.
40	During material transfer, spillage shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	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.


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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.	We have provided suitable tanks and vessels to storage hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS.
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 records etc.	<ul style="list-style-type: none"> • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Sunshine Global Hospital at Bharuch. • Periodic health check up of all workers is also carried out regularly as per Factory act requirement.
43	Personal protective equipment shall be provided to 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.
44	First aid box and required antidote for the chemicals used in the unit shall be made readily available in adequate quantity.	We have 26 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
45	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<ul style="list-style-type: none"> • 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.
46	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.	<ul style="list-style-type: none"> • 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.

For Grasim Industries Ltd.
(Chemical Division)


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47	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	We have DCS operated plan which requires minimum Human intervention though we have provided suitable means of PPEs to avoid exposure.
48	Transportation of Hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
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	We have procured and installed standardize equipment in our plant. We are regularly monitoring noise level of the plant area.
-	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.	<ul style="list-style-type: none"> • 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.
-	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.	Regular maintenance of machinery and vehicles is undertaken to reduce the noise impact and also considered upgraded version equipment with reputed vendors to ensure minimal noise impact.
-	Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.	Noise suppression measures have been provided at D. G. Sets with acoustic enclosures, utility compressors in well-ventilated area with noise protection.
-	Employees shall be provided with ear protection measures like earplugs or earmuffs.	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.

For Green Industries Ltd.
(Chemical Division)




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-	Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.	<ul style="list-style-type: none"> 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.
-	Construction of equipment minimum noise and vibration shall be chosen.	We have procured and installed equipment like compressors of the companies such as Kirlosker, Ingersoll pneumatic etc. with silencers and Pumps such as Micro finish, Rajedia, Johnson, Trittech etc.
-	Ear plug and muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.	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
-	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	Vehicles and construction equipment with internal combustion engines without proper silencer are not to be allowed to operate in our site.
-	Construction equipment meeting the norms specified by EP Act.1986 shall only be used.	Construction equipment meeting the norms specified by EP Act 1986 are used.
-	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas	Noise control equipment such as Silencers are provided in Emergency D. G. sets which are used as power back up in case emergency. And any other potential areas are also considered with the same.
-	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.	We have provided silencers/mufflers on such noise generator equipment to reduce the noise levels.
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, 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.	<ul style="list-style-type: none"> 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.



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A.6 ENERGY CONSERVATION:		
51	The project proponent shall install energy efficient devises and appliances conforming to the Bureau of Energy Efficiency norms.	We have installed energy efficient devises and appliances as per 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.	Energy Audit of Chlor-alkali & Value Added Products plant is carried out on regular basis by central technical cell.
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 system.	Solar landscaping lights are installed for Admin Building and we are exploring the possible use of solar energy in other plant areas.
54	The transformers and motors shall have minimum efficiency of 85%.	All transformers are of higher efficiency > 98 %
55	Variable frequency drives shall be installed.	40 nos. of Variable frequency drivers are installed for energy saving.
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.	All lights are energy efficient MH lamps and we are replacing the same with LED lights. (50 % replacement is already done).
57	Energy saving practices as follows shall be practiced.	Energy saving practices and initiatives are in place.
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.	<ul style="list-style-type: none"> • We have carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat). • We have received participation certificate from Gujarat Cleaner Production Award for the year 2014-2015 and 2015-2016. • We have also applied for Gujarat Cleaner Production Award 2016-2017.
59	The company shall undertake following waste minimization measures.	-- For Grasim Industries Ltd. (Chemical Division)


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a	Metering and control of quantities of active ingredients to minimize waste.	We have provided flow meters for wastewater generation. We have installed RO system for reducing the effluent 192 KLD. 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.
b	Reuse of by-products from the process as raw materials or raw material substitute in other process.	<ul style="list-style-type: none"> 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.
c	Reuse of by-products from the process as raw materials or raw material substitute in other process.	<ul style="list-style-type: none"> 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.
d	Use of automated and closed filling to minimize spillages.	We are using automated and closed filling to minimize spillages.
e	Use of close feed system into batch reactors.	We are using close feed system into batch reactors.
f	Dry cleaning / mopping of floor instead of floor washing.	Floors are cleaned through mopping.
g	Use of light pressure hoses for cleaning to reduce waste water generation.	Light pressure hoses are used for cleaning and reduce the wastewater.
h	Regular preventive maintenance for avoiding leakage, spillage etc.	<ul style="list-style-type: none"> Preventive maintenance schedule is strictly complied to ensure the health of the equipment & pipelines. Chlorine liquid & gas pipelines thickness is being measured & monitored regularly.

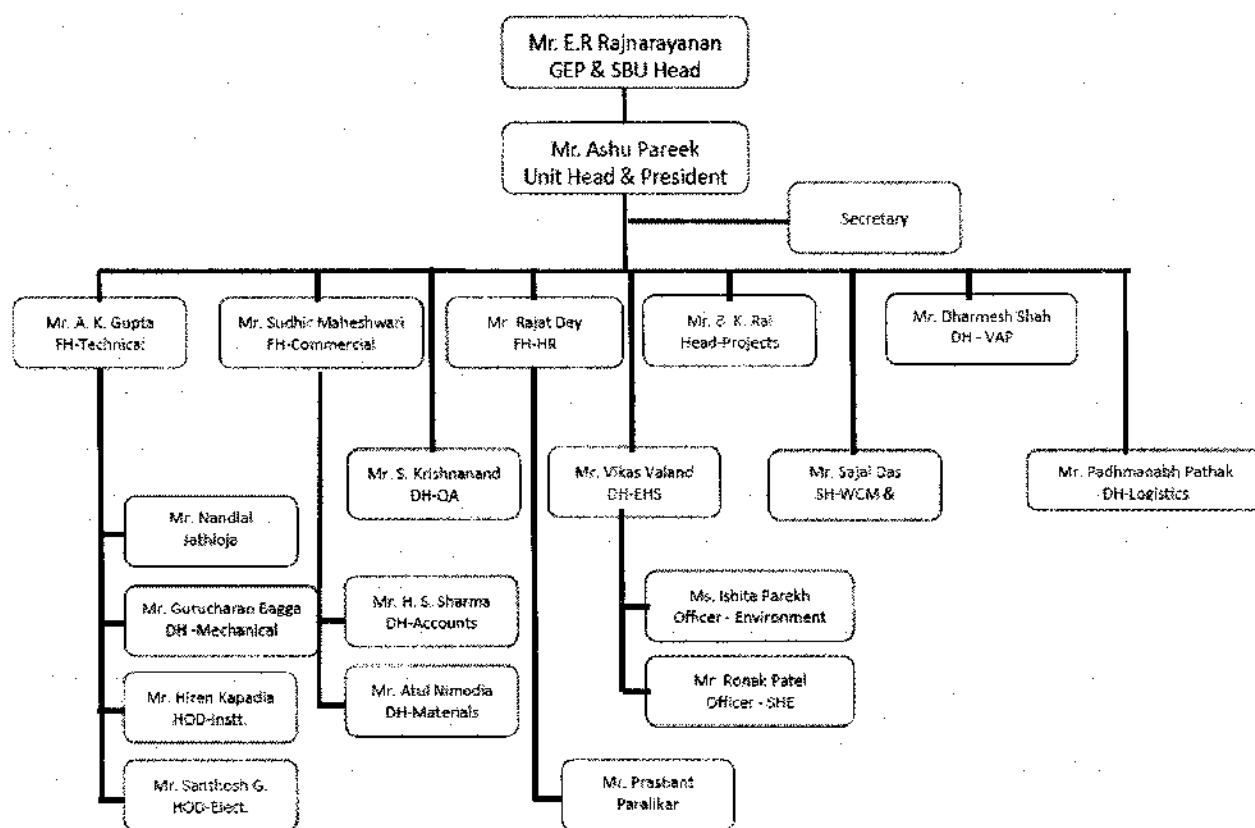
For Grasim Industries Ltd.
(Chemical Division)


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A.7 GREEN BELT AND OTHER PLANTATION																																					
60	<p>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.</p>	<ul style="list-style-type: none">• We have appointed a Horticulture Expert to develop & maintain the greenbelt properly.• We have already started plantation and about 5000 saplings have been planted in & around the boundary of plant during this monsoon.																																			
61	<p>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.</p> <table><tr><th>Sr. No.</th><th>Village Name</th><th>Total Acre</th><th>Number of Tree Plantation</th><th>Time Line</th></tr><tr><td>1</td><td>Saran-2</td><td>2</td><td>4000</td><td>2020-21</td></tr><tr><td>2</td><td>Samar-2</td><td>2</td><td>4000</td><td>2021-22</td></tr><tr><td>3</td><td>Vilayat-2</td><td>2</td><td>4000</td><td>2022-23</td></tr><tr><td>4</td><td>Vorasamni</td><td>2</td><td>4000</td><td>2023-24</td></tr><tr><td>5</td><td>Derol</td><td>2</td><td>4000</td><td>2024-25</td></tr><tr><td></td><td></td><td>10</td><td>20000</td><td></td></tr></table>	Sr. No.	Village Name	Total Acre	Number of Tree Plantation	Time Line	1	Saran-2	2	4000	2020-21	2	Samar-2	2	4000	2021-22	3	Vilayat-2	2	4000	2022-23	4	Vorasamni	2	4000	2023-24	5	Derol	2	4000	2024-25			10	20000		<ul style="list-style-type: none">• We have planted 20,000 nos. of trees as a green belt development in the premises and separate budget is earmarked for the green belt development project.• 5 Years rolling plan with the budget of Rs. 50 lacs is prepared for green development.• Out of 567 Acres, Grasim Cellulosic division has 300 Acre and out of 300 Acre 168 Acre is construction area. We have developed greenbelt in our factory complex along the boundary wall and open space area of 55.4 acre area to achieve target of 33% green belt of construction area
Sr. No.	Village Name	Total Acre	Number of Tree Plantation	Time Line																																	
1	Saran-2	2	4000	2020-21																																	
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5	Derol	2	4000	2024-25																																	
		10	20000																																		
62	<p>Drip irrigation / low-volume, low angle sprinkler shall be used for the green belt development.</p>	<p>Drip irrigation / low-volume, low angle sprinkler are used for green belt development. Total 22,000 Sq. Meter area is covered under drip irrigation & low angle sprinkler system.</p>																																			
B GENERAL CONDITIONS:																																					
63	<p>In the event 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.</p>	<p>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.</p>																																			
64	<p>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 applicable.</p>	<ul style="list-style-type: none">• 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.																																			

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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 allotted for this purpose.	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.
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66	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.	<ul style="list-style-type: none"> 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.
67	Pucca flooring/impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<p>We have provided RCC and /acid brick line flooring in the required areas.</p> <p>For Grasim Industries Ltd. (Chemical Division)</p>


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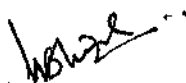
68	Leakages from the pipes, pumps, shall be minimal and if occurs shall be arrested promptly.	We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
69	All the recommendations made in the EIA/EMP submitted by the project proponent shall be strictly implemented.	Recommendations made in the EIA/EMP were submitted & implemented.
70	The applicant shall also comply with any additional condition that may be imposed by the SEAC or the SEAC or any other competent authority for the purpose of the environmental protection and management.	<ul style="list-style-type: none"> • 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.
71	The 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.	<ul style="list-style-type: none"> • 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.
72	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.	Separate fund / budget is identified / sanctioned on annual basis for Environmental management. A year wise expenditure on environmental safeguards is also reported.

For Grasim Industries Ltd.
(Chemical Division)


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76	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.	<ul style="list-style-type: none"> • 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
77	The SEIAA may revoke or suspend the clearance, if implementation of the above conditions is not found satisfactory.	We have been complying the conditions issued by the SEIAA. No suspension order issued by the SEIAA till date.
78	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 their amendments and rules.	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.
79	The Environmental Clearance is valid for five Years.	The EC is valid for 5 years and we are submitting half yearly compliance report to GPCB RO, MoEF RO and SEIAA on regular basis. Before due date of the EC, we have encase the same via CTE and CCA.

For Grasim Industries Ltd.
(Chemical Division)




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Compliance status of Environmental Clearance


vide Letter No.: SEIAA/GUJ/EC/5(f)/90/2014 dated 1st Aug 2014

Sr. No.	Conditions	Compliance Report																																															
	<p>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.</p> <table border="1"> <thead> <tr> <th>Name of Product</th><th colspan="2">Quantity (MT/Month)</th></tr> <tr> <th></th><th>Product</th><th>By Product</th></tr> </thead> <tbody> <tr> <td colspan="3">Chloromethanes</td></tr> <tr> <td>1. Methly Chloride</td><td colspan="2">Produced as 1st step of manufacturing of all other product</td></tr> <tr> <td>2. Methylene Chloride (50 % to 80 % of total production)</td><td rowspan="3">4500</td><td>--</td></tr> <tr> <td>3. Chloroform (15 % to 40 % of total production)</td><td></td></tr> <tr> <td>4. Carbon Tera Chloride (5 % to 10 % of total production)</td><td></td></tr> <tr> <td>5. Hydrochloric Acid</td><td>--</td><td>2250</td></tr> <tr> <td colspan="3">FATTY ALCOHOLS</td></tr> <tr> <td colspan="3">A) FATTY ALCOHOL MANUFACTURING PLANT</td></tr> <tr> <td>6. Fatty Alcohol</td><td>2700</td><td>--</td></tr> <tr> <td>7. Crude Alcohol Refining (Light)</td><td>--</td><td>25</td></tr> <tr> <td>8. Crude Alcohol Refining (Heavies)</td><td>--</td><td>144</td></tr> <tr> <td colspan="3">B) FATTY ALCOHOL FRACTIONATION PLANT</td></tr> <tr> <td>9. Fractionated Fatty Alcohol – Middle Cut Alcohol</td><td>541</td><td rowspan="3">5</td></tr> <tr> <td>10. Fractionated Fatty Alcohol – Light Cut Alcohol</td><td>199</td></tr> <tr> <td>11. Fractionated Fatty Alcohol – Light</td><td>13</td></tr> </tbody> </table>	Name of Product	Quantity (MT/Month)			Product	By Product	Chloromethanes			1. Methly Chloride	Produced as 1 st 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 Tera Chloride (5 % to 10 % of total production)		5. Hydrochloric Acid	--	2250	FATTY ALCOHOLS			A) FATTY ALCOHOL MANUFACTURING PLANT			6. Fatty Alcohol	2700	--	7. Crude Alcohol Refining (Light)	--	25	8. Crude Alcohol Refining (Heavies)	--	144	B) FATTY ALCOHOL FRACTIONATION PLANT			9. Fractionated Fatty Alcohol – Middle Cut Alcohol	541	5	10. Fractionated Fatty Alcohol – Light Cut Alcohol	199	11. Fractionated Fatty Alcohol – Light	13	<ul style="list-style-type: none"> • Copy of Environment Clearance is attached as <u>Annexure-1</u>. • We have obtained CTE for Chloromethanes vide letter No. GPCB/BRCH-B/CCA-70-A (4)/ID-41279/478307 dated 10/12/2018. Copy of CTE is attached as <u>Annexure-2</u>. Photographs of Chloromethanes Project Construction Work is attached as <u>Annexure-3</u>. • 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.
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For Grasim Industries Ltd.
(Chemical Division)


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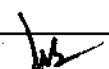
A.1	CONDITIONS WITH WHICH ENVIRONMENT CLEARANCE IS GRANTED:	
A.1.1	WATER:	
1	Fresh Water requirement for Chloromethanes and fatty alcohol plants shall not exceed 553 KL/Day and it shall be met only through GIDC water supply only. Metering of water shall be done and its records shall be maintained. No ground water shall be used for the project.	<ul style="list-style-type: none"> • Fresh Water requirement for Chloromethanes shall be met only through GIDC Water supply only. • We have obtained CTE for Chloromethanes vide letter No. GPCB/BRCH-B/CCA-70-A (4)/ID-41279/478307 dated 10/12/2018. • 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. • We shall install Meters and shall maintain the record of the same on regular basis. • We are not using ground water for the Chloromethanes project.
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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	<ul style="list-style-type: none"> • We shall comply with the condition after commissioning of the Chloromethanes project. • 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.
4	Domestic wastewater generation shall be 12.5 KL/Day and it shall be treated in the ETP along with the industrial wastewater. For Grasim Industries Ltd. (Chemicals Division)	<ul style="list-style-type: none"> • We shall comply with the condition after commissioning of the Chloromethanes project. • For Fatty Alcohol, suitable technology is not finalized by our technical/project team hence we have not installed Fatty Alcohol plant.


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5	The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the ETP outlet.	We shall operate our ETP regularly and efficiently to achieve the GPCB norms after commissioning of the Chloromethanes project.
6	The treated wastewater conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal in deep sea.	We shall comply with the condition after commissioning of the Chloromethanes project.
7	A Guard / Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain.	We shall comply with the condition after commissioning of the Chloromethanes project.
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 provide metering facility at the inlets and outlets of the ETP and maintain the records of the same.	<ul style="list-style-type: none"> 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. 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.	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.	Regular performance evaluation of the existing ETP is undertaken through credible institute and its records are being maintained and the same shall be continued after commissioning of the Chloromethanes project.
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.	We are and shall 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.
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.	<p>We shall comply with the condition after commissioning of the Chloromethanes project.</p> <p>For Graylin Industries Ltd. (Chloromethanes Project)</p>


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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.	We shall comply with the condition after commissioning of the Chloromethanes project.
b	Crude CMS distillation column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	We shall comply with the condition after commissioning of the Chloromethanes project.
c	Heavies CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	We shall comply with the condition after commissioning of the Chloromethanes project.
d	Volatile Reduction Chamber (VRC) of Chloromethanes Plant - Water and Caustic Scrubber for control of NO _x , HCl & Cl ₂ .	We shall comply with the condition after commissioning of the Chloromethanes project.
e	Methanol column DT 111 of Fatty Alcohol Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	For Fatty Alcohol, suitable technology is not finalized by our technical/project team hence we have not installed Fatty Alcohol plant.
f	Crude Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrester for control of VOC.	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.
g	Product Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrester for control of VOC.	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.
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 be provided for control of emission from VRC.	We shall comply with the condition after commissioning of the Chloromethanes project.
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 emission.	We shall comply with the condition after commissioning of the Chloromethanes project. For Grasim Industries Ltd. (Chloromethanes Division)



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16	Online monitoring system shall be installed on VRC stack to monitor HCl, Cl ₂ & NO _x 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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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).	We shall comply with the condition after commissioning of the Chloromethanes project.
18	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.	Regular performance evaluation of the existing ETP is undertaken through credible institute and its records are being maintained.
19	Regular monitoring of ground level concentration of CS ₂ , H ₂ S, SO ₂ , NO _x , Cl ₂ , 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.	We shall comply with the condition after commissioning of the Chloromethanes project.
A.1.3	SOLID / HAZARDOUS WASTE:	
20	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.	<ul style="list-style-type: none"> We shall 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 shall be obtained for collection / treatment / storage / disposal of hazardous wastes.



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21	Hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	We shall store Hazardous wastes 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.	We shall dispose ETP Sludge and Spent Carbon at the nearest TSDF site after commissioning of the Chloromethanes project.
23	Exhausted Resin and Spent Catalyst shall be sent back for regeneration or reactivation.	We shall sent back Exhausted Resin and Spent Catalyst for regeneration or activation.
24	Discarded Containers / barrels / bags / liners shall be either reused or sold only to the authorized recyclers after decontamination.	We shall reuse or sold Discarded Containers / barrels / bags / liners only to the authorized recyclers after decontamination.
25	Used oil shall be sold only to the registered recyclers.	We shall sell Used oil to the registered recyclers.
26	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.	We shall take necessary permission from the nearby TSDF site for CHWIF.
27	E-waste from Plant Electronic system shall be managed as per the provisions of the E-waste management and handling Rules 2011.	We shall manage E-waste from Plant Electronic system as per the provisions of the E-waste management and handling Rules 2011.
28	Exhausted insulating materials shall be sold to authorized recyclers.	We shall sell Exhausted insulating materials to authorized recyclers.
A.1.4 SAFETY:		
29	Provisions of the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1986 & Factories Act, 1948 shall be strictly complied with.	We shall strictly complied with the Provisions of the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1986 & Factories Act, 1948.
30	A well designated fire hydrant system shall be installed as per the prevailing standards.	<ul style="list-style-type: none"> We shall install 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.
31	All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.	We shall implement the all risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report before commissioning of the Chloromethanes project.

For Grasim Industries Ltd.
(Chloromethanes Division)



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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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	<ul style="list-style-type: none"> • OHC with availability of para-medical staff & ambulance is already available round the clock. • We have also tied up with M/s. Sunshine Global Hospital at Bharuch.
37	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	We shall comply with the condition after commissioning of the Chloromethanes project.
38	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	We shall comply with the condition after commissioning of the Chloromethanes project.
39	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	<p>We shall comply with the condition after commissioning of the Chloromethanes project.</p> <p>For Grasim Industries Ltd. (Chloromethanes Project)</p>



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41	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	We shall comply with the condition after commissioning of the Chloromethanes project.
42	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	We shall comply with the condition after commissioning of the Chloromethanes project.
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 conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company after commissioning of the Chloromethanes project.
45	The company shall undertake following waste minimization measures:	We shall undertake waste minimization measures after commissioning of the Chloromethanes project.
a	Metering and control of quantities of active ingredients to minimize waste.	We shall comply with the condition after commissioning of the Chloromethanes project.
b	Reuse of by-products from the process as raw materials substitutes in other process.	We shall comply with the condition after commissioning of the Chloromethanes project.
c	Use of automated and enclosed filling to minimize spillages.	We shall comply with the condition after commissioning of the Chloromethanes project.
d	Use of close feed system into batch reactors.	We shall comply with the condition after commissioning of the Chloromethanes project.
e	Dry cleaning / mopping of floor instead of floor washing.	We shall comply with the condition after commissioning of the Chloromethanes project.

For Grasim Industries Ltd.
(Chloromethanes Division)



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f	Use of high pressure hoses for cleaning to reduce wastewater generation.	We shall comply with the condition after commissioning of the Chloromethanes project.
g	Regular preventive maintenance for avoiding leakage, spillage etc.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall develop and maintain green belt within premises as per the CPCB guidelines. In addition to this, we 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.
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.	We shall prepare 5 years planning to develop the green belt for the plantation of total 48000 nos. of trees.
48	Drip irrigation system shall be used for the green belt development.	We shall use drip irrigation system 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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall develop 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.


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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.	The separate funds shall be 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 after commissioning of the project.
53	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	We shall provide pucca flooring / impervious layer in the required area before commissioning of the Chloromethanes project.
54	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	We shall comply with the condition after commissioning of the Chloromethanes project.
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.	We shall 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 before commissioning of the Chloromethanes project.
56	The company shall undertake socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.	We 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.	<ul style="list-style-type: none"> • 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.	We shall carry out necessary environmental impact studies from the authority for further expansion or modifications in the plant likely to cause environmental impacts.

For Grasim Industries Ltd.
(Chemical Division)


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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.	We 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 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.	<ul style="list-style-type: none"> 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. English and Gujarati Newspaper advertisement of the Environment Clearance is as per below and the same is attached as <u>Annexure-10</u>. 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

PUBLIC NOTICE
ENVIRONMENTAL CLEARANCE

It is hereby informed 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/5(f)/90/2014 dated 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,
Gujarat

જાહેર નિવેદન
પર્યાવરણ મંજૂરી

આ સાર્વજનિક જાણવામાં આવે છે કે 'સ્ટેટ લેવેલ એન્વિરોનમેન્ટ ઇમ્પેક્ટ એસેસમેન્ટ' પર્યાવરણ ભવન સેક્ટર 10-અ ગાંધીનગર- 382 010, ગુજરાત દ્વારા તેઓના પત્ર ક્રમાંક SEIAA/GUJ/EC/5(f)/90/2014 નામીન 01/08/2014 ના રોજ મેલમાં ગ્રાસીમ સેલ્યુલોસિક (યુનિટ ઓફ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ) ના પ્લોટ નં. ૧, ઈ.આઈ.ડી.સી., ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.સત્રુચ, મુજરાતમાં ક્લોરોમેથેન અને ફેટી આલ્કોહોલ ઉત્પાદન માટેની સેટલાઈટ S.O. 1533, EIA નોટિફિકેશન 2006, અંતર્ગતના મુજબ એન્વિરોનમેન્ટલ ક્લિયરન્સ માટે અનુમતિ આપવામાં આવે છે. ઉપરોક્ત અનુમતિની નાલ મુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની ડ્રેકેરીમાં ઉપલબ્ધ છે. અને સ્કડ અનુમતિને SEIAA/SEAC/GPCB ની વેબસાઈટ પર પણ મુકવામાં આવેલ છે.


સહી/-
મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ
પ્લોટ નં.૧, ઈ.આઈ.ડી.સી., ઇન્ડસ્ટ્રીયલ એસ્ટેટ, વિલાયત, જી.સત્રુચ, મુજરાત

For Grasim Industries Ltd.
(Chemical Division)


President & Unit Head
Authorized Signatory


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 1 st June and 1 st December of each calendar year.	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.	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.	<ul style="list-style-type: none"> • 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.	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 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. Hazardous waste (Management Handling and Transboundary Movement) Rules 2008 and the public liability Insurance Act, 1991 along with their amendments and rules.	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.

For Grasim Industries Ltd.
(Chemical Division)


President & Unit Head
Authorized Signatory

66	This environmental clearance is valid for five years from the date of issue.	<ul style="list-style-type: none"> • The EC is valid for 5 years and we are submitting half yearly compliance report to GPCB RO, MoEF RO and SEIAA on regular basis. • We have encased the EC for Chloromethanes project before due date of the EC in the form of CTE. • 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.
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.	There is no appeal against this environmental clearance lie with the National Green Tribunal.

For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
Authorized Signatory

Compliance status of Environmental Clearance

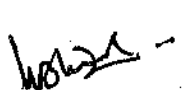
vide Letter No.: SEIAA/GUJ/EC/5(f) & 4(d)/642/2016 dated 29th Oct 2016

Sr. No.	Stipulation	Compliance Status
	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.	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 <u>Annexure-11.</u>

Products	Chlorinated Paraffin	Caustic Soda Lye	Poly Aluminum Chloride	Aluminum Chloride	Stable Bleaching Powder	Hydrogen	Liquid chlorine / Sodium Hypochlorite / Hydrochloric Acid
SEIAA/GUJ/EC/5(f) & 4(d)/642/2016 dated 29 th Oct 2016	70000 MT/Annum	365000 MT/Annum	250000 MT/Annum	25000 MT/Annum	61000 MT/Annum	102200000 NM3/Annum	328500 MT/Annum
Total Production (Tons) - April 2020 to September 2020	9120	149471	62961	4916	10211	4012749	103063

A.	CONDITIONS:
A.1	SPECIFIC CONDITION:
1	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>The Unit shall obtain requisite permission from PESO, Nagpur for storage of Chlorine, Hydrogen etc. before commissioning of the project.</p> </div> <div style="width: 48%;"> <p>We have obtained requisite permission from Petroleum And Explosives Safety Organization (PESO), Nagpur before commissioning of the project. Copy of PESO License are attached as <u>Annexure-3.</u></p> </div> </div>

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)	26-02-2018	30-09-2022
G/HO/GJ/05/733 (G31658)	License to Fill Compressed Gas in Cylinders - Chlorine	07-10-2019	30-09-2028
G/HO/GJ/06/724 (G31658)	License to Store Compressed Gas in Cylinders - Chlorine	07-10-2019	30-09-2028
G/HO/GJ/05/733 (G31658)	Periodic examination and testing of chlorine gas cylinders	18-09-2020	30-09-2023
G/HO/GJ/05/738 (G31657)	License to Fill Compressed Gas in Cylinders - Hydrogen	07-10-2019	30-09-2029
G/HO/GJ/06/728 (G31657)	License to Store Compressed Gas in Cylinders - Hydrogen	07-10-2019	30-09-2029
P/HQ/GJ/15/5344 (P296022)	License to import and store Petroleum in an installation - Petroleum Class B	30-09-2019	31-12-2023
G/WC/GJ/06/1803 (G34271)	License to Store Compressed Gas in Cylinders-ALCP Plant	30-08-2013	30-09-2022


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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.

Month	Water Consumption KL/Month	Water Recycle / Reuse KL/Month
Apr-20	36100	0
May-20	84322	6713
Jun-20	91331	5402
Jul-20	109288	5014
Aug-20	112759	4826
Sep-20	123430	3017
Total	557230	24972
Average	92872	4162
Per day	3045	136

- Average water consumption for April 2019 to September 2019 is 3868 KL/Day, sourced from GIDC water supply for the Synthetic Organic Chemicals and Caustic Soda Lye plant.
- We are recycling 384 KL/Day of waste water within Synthetic Organic Chemicals and Caustic Soda Lye plants. Following are the GIDC offer cum allotment letter details:

Sr. No.	Letter No.	Water Supply	Effluent Discharge
1	GIDC/POJ/MKT/GRASIM /575 Dated 6 th December 2006	15.60 MLD	12.48 MLD
2	GIDC/SE/CG/BRH/1236 Dated 29 th December 2016	25 MLD	19.4 MLD
3	GIDC/ENG/CE/34 Dated 9 th October 2017	55-56 MLD	--

Copy of agreement letter is attached as **Annexure-12.**

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

We have installed Water Meter at the inlet. Logbook is maintained to record the water consumption.

4 Total industrial waste water generation from Synthetic Organic Chemicals and Caustic Lye plant shall not exceed 600 KL/day.

Average industrial waste water generation from synthetic organic chemicals and caustic lye plant for April 2020 to September 2020 is 675 KL/Day.

Month	Waste water generation KL/Month
Apr-20	14913
May-20	19406
Jun-20	18889
Jul-20	21748
Aug-20	22884
Sep-20	25615
Total	123455
Average	20576
Per day	675

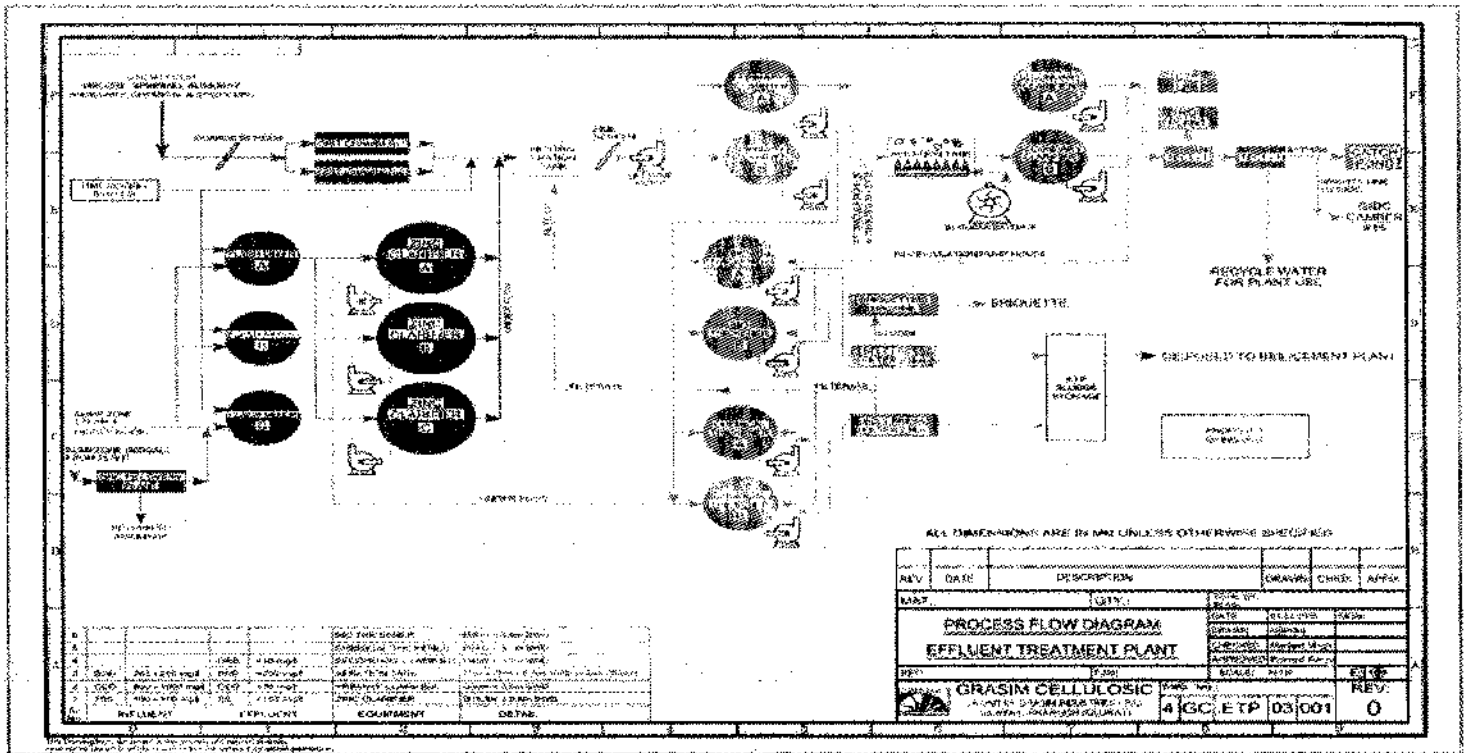
For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
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5	<p>Unit shall treat the additional effluent in their existing ETP having capacity 35 MLD comprises of primary & secondary treatment plants.</p>	<ul style="list-style-type: none"> 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 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.
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Please Refer Effluent Treatment Plant PFD



6	<p>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.</p> <p>(Chemical Division)</p>	<ul style="list-style-type: none"> Total quantity waste water discharge of the group companies (i.e. Chemical division + Cellulosic division + Epoxy division) does not exceed 19.4 MLD. The treated waste water conforming to the GPCB / CPCB / MoEF&CC norms are discharging into GIDC underground pipeline for final disposal to deep sea through GIDC. Treated effluent quality is summarized as per below table:
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President & Unit Head
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- Monthly Analysis Report from Unistar Environment & Research lab Pvt. Ltd. refer as **Annexure-13**
- Agency & Address: Unistar Environment & Research lab Pvt. Ltd. GIDC, Char Rasta, Vapi
- NABL: NABL Certificate Number TC-7753

Month	FINAL TREATED EFFLUENT									
	pH	Temp.	TSS	Oil & Grease	Fluoride	Sulphide	Amm. N as N	Copper	Zinc	BOD
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB limit	6.5-8.5	<40	100	10	20	5	50	3	15	100
Apr-20	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--
Jun-20	7.31	31	24	BDL	1.3	1.2	15.5	BDL	1.599	34
Jul-20	7.41	29	40	BDL	1.74	BDL	26.1	0.241	0.338	62
Aug-20	7.42	30	16	BDL	1.1	1.4	14.1	BDL	1.308	38
Sep-20	7.15	29	14	BDL	5.4	BDL	12.3	BDL	0.082	30
Min	7.2	29.0	14.0	0.0	1.1	1.2	12.3	0.2	0.1	30.0
Max	7.4	31.0	40.0	0.0	5.4	1.4	26.1	0.2	1.6	62.0

Month	FINAL TREATED EFFLUENT									
	COD	Total Res Cl2	Arsenic	Mercury	Hexavalent Chromium	Total Chromium	Lead	Cadmium	Nickel	Cyanide
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB limit	250	1	0.2	0.01	1	2	1	2	5	0.2
Apr-20	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--
Jun-20	118.6	BDL	BDL	BDL	BDL	0.051	BDL	0.032	0.192	BDL
Jul-20	187.6	BDL	BDL	BDL	0.059	0.464	BDL	BDL	0.155	BDL
Aug-20	132.6	BDL	BDL	BDL	BDL	BDL	BDL	0.026	0.142	BDL
Sep-20	96.2	BDL	BDL	BDL	BDL	BDL	BDL	0.004	0.045	BDL
Min	96.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Max	187.6	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.2	0.0

Month	FINAL TREATED EFFLUENT					
	Phenolic Comp	Selenium	Mn	Iron	Vanadium	Bio Assay Test
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB limit	5	0.05	2	3	0.2	90% survival of fish in 96 hrs in 100% effluent
Apr-20	--	--	--	--	--	--
May-20	--	--	--	--	--	--
Jun-20	0.65	BDL	BDL	1.326	BDL	90% survival of fish in 96 hrs
Jul-20	0.77	BDL	BDL	2.139	BDL	90% survival of fish in 96 hrs
Aug-20	0.37	BDL	BDL	1.241	BDL	90% survival of fish in 96 hrs
Sep-20	BDL	BDL	BDL	BDL	BDL	90% survival of fish in 96 hrs
Min	0.4	0.0	0.0	1.2	0.0	90% survival of fish in 96 hrs
Max	0.8	0.0	0.0	2.1	0.0	90% survival of fish in 96 hrs

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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.	<ul style="list-style-type: none">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 m ³ /day) and treated sewage shall be used for gardening-plantation within premises.	<p>Additional domestic wastewater is treated in STP and average domestic wastewater generation for April 2020 to September 2020 is 161 KL/Day.</p> <table border="1"><thead><tr><th>Month</th><th>Domestic KL/Month</th></tr></thead><tbody><tr><td>Apr-20</td><td>3478</td></tr><tr><td>May-20</td><td>4458</td></tr><tr><td>Jun-20</td><td>4982</td></tr><tr><td>Jul-20</td><td>5234</td></tr><tr><td>Aug-20</td><td>5487</td></tr><tr><td>Sep-20</td><td>5882</td></tr><tr><td>Total</td><td>29521</td></tr><tr><td>Average</td><td>4920</td></tr><tr><td>Per day</td><td>161</td></tr></tbody></table> <p><i>Note: Water Consumption and Wastewater generation is as per our existing CCA vide Order No. AWH-98281 dated 29/12/2018, which is under prescribed limit.</i></p>	Month	Domestic KL/Month	Apr-20	3478	May-20	4458	Jun-20	4982	Jul-20	5234	Aug-20	5487	Sep-20	5882	Total	29521	Average	4920	Per day	161
Month	Domestic KL/Month																					
Apr-20	3478																					
May-20	4458																					
Jun-20	4982																					
Jul-20	5234																					
Aug-20	5487																					
Sep-20	5882																					
Total	29521																					
Average	4920																					
Per day	161																					
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.	<p>During monsoon season, the treated sewage is stored in existing guard pond / polishing pond.</p> <p style="text-align: right;">For Grasim Industries Ltd. (Chemicals Division)</p>																				


President & Unit Head
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10	<p>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.</p>	<ul style="list-style-type: none"> 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 for 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. Domestic waste water quality is summarized as per below table:
	<ul style="list-style-type: none"> Monthly Analysis Report from Aditya Environ refer as <u>Annexure-14</u> Agency & Address: Aditya Environ 240 & 241, Gimar Khushbu Plaza, GIDC Vapi NABL: TC-8238 dated 01/01/2019 valid till 31/12/2021 	

Month / Parameters	BOD	Suspended Solids	Residual Chlorine
Unit	mg/l	mg/l	mg/l
GPCB Limit	< 20	< 30	Min. 0.5
Apr-20	--	--	--
May-20	--	--	--
Jun-20	--	--	--
Jul-20	--	--	--
Aug-20	16.38	14	1.06
Sep-20	15.66	12	1.23
Min	15.66	12	1.06
Max	16.38	14	1.23
Avg.	16	13	1


Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

For Grasim Industries Ltd.
(Chemical Division)


President & Unit Head
Authorized Signatory

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.	<p>We have provided metering facility at inlet & outlet of the ETP & STP and maintain the records of the same regularly.</p> <ul style="list-style-type: none"> 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.
12	Regular performance evaluation of the ETP & STP shall be undertaken every year to check its adequacy, through credible institutes of National reputation and its records shall be maintained.	<p>Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor (M. S. Patel Department of Civil Engineering, CSPIT, CHARUSAT) and its record is maintained. Copy of is attached as Annexure-15.</p>
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 runoff, pre-treatment must be done to remove suspended matter.	<ul style="list-style-type: none"> Rainwater is recovered from flat roof tops and stored in a rain water harvesting well near admin building to conserve fresh water. Photograph of Rain water harvesting in school of Saladara village.



14	<p>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.</p> <p>For Grasim Industries Ltd. (Chemical Division)</p> 	<ul style="list-style-type: none"> 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.
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President & Unit Head
Authorized Signatory

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 Nm ³ per day in a 10 ton/hour and 10 kg/cm ² capacity of hydrogen boiler.	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 Cl ₂ .	<ul style="list-style-type: none"> • We have provided Alkali scrubber for control of Cl₂ 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.	<ul style="list-style-type: none"> • 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.
c	HCl stack-2 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.	<ul style="list-style-type: none"> • 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 & Cl ₂ .	We have provided water scrubber system for control of HCl & Cl ₂ .
e	Poly Aluminium Chloride Powder - 3 stage Water scrubber system for control of HCl & Cl ₂ .	We have provided 3 stage water scrubber system for control of HCl & Cl ₂ .
f	Chlorinated paraffin Plant - Alkali Scrubbing system for control of HCl & Cl ₂ .	We have provided Alkali Scrubbing system for control of HCl & Cl ₂ .
g	Aluminium Chloride - Alkali Scrubbing system for control of HCl & Cl ₂ .	We have provided Alkali Scrubbing system for control of HCl & Cl ₂ .
h	Staple Bleaching Powder - Alkali Scrubbing system for control of HCl & Cl ₂ .	We have provided Alkali Scrubbing system for control of HCl & Cl ₂ .

For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
Authorized Signatory

- Monthly Analysis Report from Aditya Environ refer as **Annexure-16**
- Agency & Address: Aditya Environ 240 & 241, Girnar Khushbu Plaza, GIDC Vapi
- NABL: TC-8238 dated 01/01/2019 valid till 31/12/2021

Details of instrument Used for Monitoring:

Instrument Name: Stack Monitoring Kit

Sr. No.: 2E5P21, 2E5P29

Calibration Date: 18/03/2020


Expiry Date: 17/03/2021

	Sodium Hypo Stack	HCl Stack-1	HCl Stack-2	PAC-Liquid		PAC-Powder	
Month / Parameters	Cl ₂	HCl	HCl	Cl ₂	HCl	Cl ₂	HCl
Unit	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
GPCB Limit	9	35	35	9	20	9	20
Apr-20	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--
Aug-20	0.56	3.96	4.12	0.63	5.23	0.55	5.09
Sep-20	0.62	4.42	5.12	0.52	3.22	0.66	4.39
Total	1.18	8.38	9.24	1.15	8.45	1.21	9.48
Min	0.56	3.96	4.12	0.52	3.22	0.55	4.39
Max	0.62	4.42	5.12	0.63	5.23	0.66	5.09

	CPW Plant		ALCP		SBP	
Month / Parameters	Cl ₂	HCl	Cl ₂	HCl	Cl ₂	HCl
Unit	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
GPCB Limit	9	20	9	20	9	20
Apr-20	--	--	--	--	--	--
May-20	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--
Aug-20	0.46	4.86	0.74	5.06	0.68	3.52
Sep-20	0.42	4.32	0.44	3.96	0.63	4.12
Total	0.88	9.18	1.18	9.02	1.31	7.64
Min	0.42	4.32	0.44	3.96	0.63	3.52
Max	0.46	4.86	0.74	5.06	0.68	4.12

Note: Due to Covid-19 pandemic, as per Govt. guideline, Inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

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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.	<ul style="list-style-type: none"> 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 SO _x & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.	<ul style="list-style-type: none"> We have installed Online monitoring system to monitor SO_x, NO_x & 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.	<ul style="list-style-type: none"> We are in planning to install dust tamer in FY 21-22. 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.

Water Sprinkling System at Coal Yard



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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).	<ul style="list-style-type: none"> Fugitive emissions in work zone environment & storage area are monitored by third party on monthly basis and are well within GPCB stipulated norms. Work place monitoring is summarized as per below table and reports are attached as <u>Annexure-17</u>.
----	--	--

CA Plant					
Month / Parameters	Total Dust	SO2	NOX	HCl	Cl2
Apr-20	--	--	--	--	--
May-20	--	--	--	--	--
Jun-20	--	--	--	--	--
Jul-20	--	--	--	--	--
Aug-20	2.54	BDL	BDL	1.63	0.35
Sep-20	2.20	BDL	BDL	1.02	0.42
Min	2.2	0.0	0.0	1.0	0.4
Max	2.5	0.0	0.0	1.6	0.4
Avg.	2.4	--	--	1.3	0.4

SBP Plant					
Month / Parameters	Total Dust	SO2	NOX	HCl	Cl2
Apr-20	--	--	--	--	--
May-20	--	--	--	--	--
Jun-20	--	--	--	--	--
Jul-20	--	--	--	--	--
Aug-20	2.12	BDL	BDL	1.06	0.52
Sep-20	2.41	BDL	BDL	1.22	0.46
Min	2.1	0.0	0.0	1.1	0.5
Max	2.4	0.0	0.0	1.2	0.5
Avg.	2.3	--	--	1.1	0.5

CPW Plant (Paraffin Storage Area)					
Month / Parameters	Total Dust	SO2	NOX	HCl	Cl2
Apr-20	--	--	--	--	--
May-20	--	--	--	--	--
Jun-20	--	--	--	--	--
Jul-20	--	--	--	--	--
Aug-20	2.54	BDL	BDL	1.56	0.60
Sep-20	1.86	BDL	BDL	1.45	0.51
Min	1.9	0.0	0.0	1.5	0.5
Max	2.5	0.0	0.0	1.6	0.6
Avg.	2.2	--	--	1.5	0.6

ALCP Plant					
Month / Parameters	Total Dust	SO2	NOX	HCl	Cl2
Apr-20	--	--	--	--	--
May-20	--	--	--	--	--
Jun-20	--	--	--	--	--
Jul-20	--	--	--	--	--
Aug-20	2.42	BDL	BDL	1.23	0.47
Sep-20	2.53	BDL	BDL	1.15	0.61
Min	2.4	0.0	0.0	1.2	0.5
Max	2.5	0.0	0.0	1.2	0.6
Avg.	2.5	--	--	1.2	0.5

PAC Powder Plant					
Month / Parameters	Total Dust	SO2	NOX	HCl	Cl2
Apr-20	--	--	--	--	--
May-20	--	--	--	--	--
Jun-20	--	--	--	--	--
Jul-20	--	--	--	--	--
Aug-20	1.96	BDL	BDL	0.96	0.46
Sep-20	1.23	BDL	BDL	0.98	0.53
Min	1.2	0.0	0.0	1.0	0.5
Max	2.0	0.0	0.0	1.0	0.5
Avg.	1.6	--	--	1.0	0.5

Chemical Dosing Area					
Month / Parameters	Total Dust	SO2	NOX	HCl	Cl2
Apr-20	--	--	--	--	--
May-20	--	--	--	--	--
Jun-20	--	--	--	--	--
Jul-20	--	--	--	--	--
Aug-20	2.57	BDL	BDL	1.12	0.57
Sep-20	2.40	BDL	BDL	1.09	0.49
Min	2.4	0.0	0.0	1.1	0.5
Max	2.6	0.0	0.0	1.1	0.6
Avg.	2.5	--	--	1.1	0.5

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

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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.	Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor (M. S. Patel Department of Civil Engineering, CSPIT, CHARUSAT) and its record is maintained. Copy of is attached as <u>Annexure-15</u> .
22	Regular monitoring of ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ , Cl ₂ , 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.	<ul style="list-style-type: none"> Regular monitoring of ground level concentration of CS₂, SO₂, NO_x, Cl₂, HCl, PM₁₀ and PM_{2.5} is 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). Ambient Air Monitoring Report is summarized as per below table:
	<ul style="list-style-type: none"> Monthly Analysis Report from Aditya Environ refer as <u>Annexure-18</u> Agency & Address: Aditya Environ 240 & 241, Girnar Khushbu Plaza, GIDC Vapi NABL: TC-8238 dated 01/01/2019 valid till 31/12/2021 Details of instrument Used for Monitoring: Instrument Name: Combo Dust Sampler VCDS 401 Calibration Certificate No.: ML/GEN/2846/3/2019-20 Calibration Date: 18/03/2020 Expiry Date: 17/03/2021	
	<p>There are 4 nos. of Ambient air quality monitoring stations covering all directions in nearby villages. Monthly monitoring is being done on monthly by NABL accredited Lab.</p> <p>Agency: Unistar Environment & Research Lab Pvt. Ltd</p> <p>Instrument ID & Name:</p> <p>1) UERL/AIR/RDS/02 - Respirable Dust Sampler (Calibration Period: 10.08.2019 – 09.08.2020)</p> <p>2) UERL/AIR/FPS/08 - Fine Particulate Sampler (Calibration Period: 10.08.2019 – 09.08.2020)</p>	

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Month / Parameters	Nr. SBP						Nr. PAC					
	PM10	PM2.5	SOx	NOx	Cl2	HCl	PM10	PM2.5	SOx	NOx	Cl2	HCl
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
GPCB Limit	100	60	80	80	100	200	100	60	80	80	100	200
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--	--	--	--
Aug-20	57.85	28.63	27.56	23.22	BDL	BDL	57.45	24.56	20.03	18.96	BDL	BDL
Sep-20	67.82	37.51	34.10	21.41	BDL	BDL	54.22	30.22	19.63	16.52	BDL	BDL
Min	57.85	28.63	27.56	21.41	0	0	54.22	24.56	19.63	16.52	0	0
Max	67.82	37.51	34.1	23.22	0	0	57.45	30.22	20.03	18.96	0	0

Month / Parameters	Nr. Main Gate						Nr. Marketing					
	PM10	PM2.5	SOx	NOx	Cl2	HCl	PM10	PM2.5	SOx	NOx	Cl2	HCl
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
GPCB Limit	100	60	80	80	100	200	100	60	80	80	100	200
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--	--	--	--
Aug-20	56.39	27.55	22.12	16.33	BDL	BDL	55.22	24.23	24.78	19.63	BDL	BDL
Sep-20	50.12	27.46	24.55	18.69	BDL	BDL	52.32	26.98	26.88	18.36	BDL	BDL
Min	50.12	27.46	22.12	16.33	0	0	52.32	24.23	24.78	18.36	0	0
Max	56.39	27.55	24.55	18.69	0	0	55.22	26.98	26.88	19.63	0	0

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

Month	DEROL						SARNAR					
	SPM	SPM	SO2	NO2	H2S	CS2	SPM	SPM	SO2	NO2	H2S	CS2
	PM10	PM2.5					PM10	PM2.5				
	µg/m3						µg/m3					
Norms ->	100	60	80	80	150	100	100	60	80	80	150	100
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	78	27	17	19	BDL	BDL	73	21	15	19	BDL	BDL
Jul-20	74	26	16	20	BDL	BDL	70	28	17	20	BDL	BDL
Aug-20	78	26	18	22	BDL	BDL	80	31	19	25	BDL	BDL
Sep-20	81	28	19	25	BDL	BDL	76	25	17	22	BDL	BDL
Min	78	24	15	17	0	0	78	21	16	20	0	0
Max	96	33	23	28	0	0	88	32	31	36	0	0


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Month	ARGAMA						VILAYAT					
	SPM	SPM	SO2	NO2	H2S	CS2	SPM	SPM	SO2	NO2	H2S	CS2
	PM10	PM2.5					PM10	PM2.5				
	µg/m3						µg/m3					
Norms ->	100	60	80	80	150	100	100	60	80	80	150	100
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	71	22	16	21	BDL	BDL	68	18	18	29	BDL	BDL
Jul-20	73	25	15	18	BDL	BDL	69	23	16	19	BDL	BDL
Aug-20	71	24	17	21	BDL	BDL	72	25	19	23	BDL	BDL
Sep-20	82	31	20	24	BDL	BDL	76	28	17	21	BDL	BDL
Min	77	22	22	25	0	0	76	21	19	24	0	0
Max	94	28	26	37	0	0	92	27	28	34	0	0

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted in April 2020 to May 2020.

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.	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.	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.	All the vessels used in the manufacturing process are closed to reduce the fugitive emission.

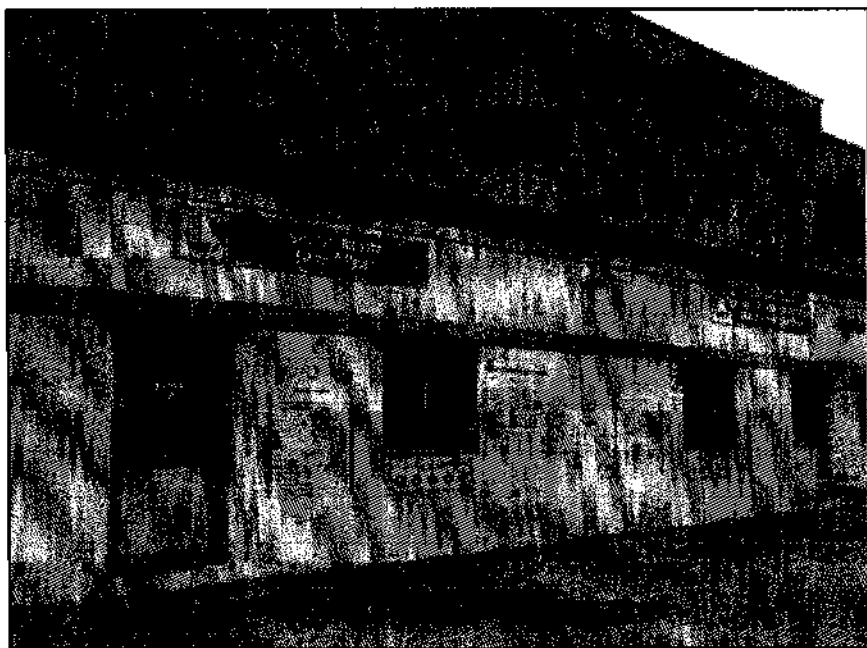
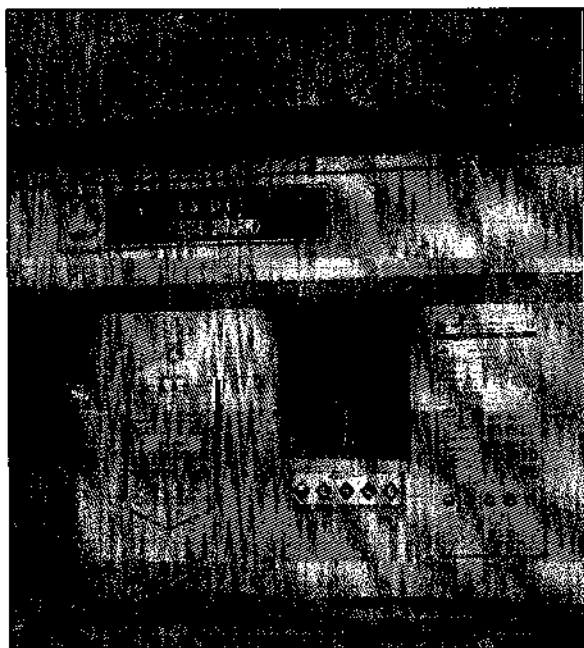
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A.4	SOLID / HAZARDOUS WASTE:									
26	<p>The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) 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.</p>	<ul style="list-style-type: none">We have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes. <table border="1"><tr><td>Authorization No.</td><td>AWH-98281</td></tr><tr><td>Validity</td><td>02/03/2024</td></tr></table> <ul style="list-style-type: none">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. Following is the BEIL membership details: <table border="1"><tr><td>Membership No.</td><td>Oth/133 dated 22/05/2018</td></tr><tr><td>Booked Quantity</td><td>12000 MT/Year</td></tr></table> <ul style="list-style-type: none">Copy of the membership certificate is attached as <u>Annexure-5</u>.	Authorization No.	AWH-98281	Validity	02/03/2024	Membership No.	Oth/133 dated 22/05/2018	Booked Quantity	12000 MT/Year
Authorization No.	AWH-98281									
Validity	02/03/2024									
Membership No.	Oth/133 dated 22/05/2018									
Booked Quantity	12000 MT/Year									

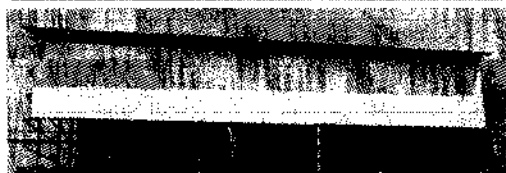
Waste Storage Area




27	<p>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.</p>	<ul style="list-style-type: none"> 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: For Grasim Industries Ltd. (Chemical Division)
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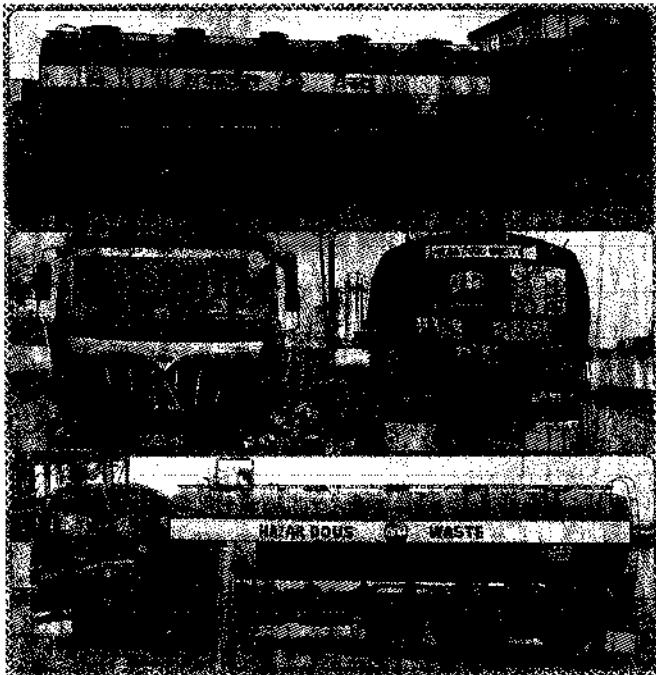

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Sludge Storage area



28	ETP waste, Brine / process Sludge, Spent Resin & Spent carbon from filters will be disposed off at the nearby common TSDF.	We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. Following is the BEIL membership details: <table><tr><td>Membership No.</td><td>Oth/133 dated 22/05/2018</td></tr><tr><td>Booked Quantity</td><td>12000 MT/Year</td></tr></table> Copy of the membership certificate is attached as <u>Annexure-5.</u>	Membership No.	Oth/133 dated 22/05/2018	Booked Quantity	12000 MT/Year
Membership No.	Oth/133 dated 22/05/2018					
Booked Quantity	12000 MT/Year					
29	Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination.	We are disposing Discarded barrels / containers / bags / liners to GPCB approved registered recyclers.				
30	Used oil shall be sold only to the registered recyclers.	Used Oil is sold to Registered recyclers.				
31	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. For Grasim Industries Ltd. (Chemical Division)	We are a member of CHWIF site operated by M/s. BEIL Infrastructure Ltd. Following is the membership details: <table><tr><td>Membership No.</td><td>CI/BD/92 dated 16/08/2019</td></tr><tr><td>Booked Quantity</td><td>10 MT/Year</td></tr></table> Copy of the membership certificate is attached as <u>Annexure-19.</u>	Membership No.	CI/BD/92 dated 16/08/2019	Booked Quantity	10 MT/Year
Membership No.	CI/BD/92 dated 16/08/2019					
Booked Quantity	10 MT/Year					


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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.	<p>We are complying with rules under Motor Vehicle Act, 1988 for transportation of hazardous waste.</p> <p>Photograph of Hazardous Waste Tanker:</p> 
33	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<p>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.</p>
Hazardous Waste Generation & Disposal is summarized as per below table:		

Type of waste	Category	Treatment / Disposal
Residue Sludge & Filter Cake	--	Collection, storage, transportation, disposal at TSDF of BEIL
ETP Sludge	35.3	Collection, storage, transportation, disposal at TSDF of BEIL
Used Oil	5.1	Collection, storage, transportation, disposal by selling to registered re-refiners.
Spent Resin	35.2	Collection, storage, transportation, disposal at TSDF of BEIL
Spent Carbon	36.2	Collection, storage, transportation, disposal at TSDF of BEIL
Discarded container / bags / liner	33.1	Collection storage, transportation, reuse or disposal by selling to vendors.
Incinerable Waste	36.1	Collection, storage, transportation, disposal at CHWIF site
Fly Ash	--	Collection, storage, transportation, disposal by selling to brick manufacturing as per fly ash notifications/rules

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	Residue Sludge & Filter Cake		ETP Sludge		Used Oil		Spent Resin	
Month / Parameters	Generation	Disposal	Generation	Disposal	Generation	Disposal	Generation	Disposal
CCA Qty	6066 MT		40160 MT (35.3)		100 KL (5.1)		0.33 MT (35.2)	
Apr-20	289	490.2	563.74	773.99	0	0	0	0
May-20	958	769.47	904.68	1155.43	0	0	0	0
Jun-20	655	382.38	1548.65	1095.72	0	0	0	0
Jul-20	830	542.42	1507.9	824.85	0	0	0	0
Aug-20	840	422.08	1207.9	627.25	0	0	0	0
Sep-20	726	172.78	1688.9	243.5	0	0	0	0
Total	4298	2779	7422	4721	0.00	0.00	0	0
Disposed to	To TSDF M/s. BEIL, Dahej		To TSDF M/s. BEIL, Dahej		To A-One Lube Refinery		To TSDF M/s. BEIL, Dahej	

	Spent Carbon		Discarded Containers		Incinerable Waste	
Month / Parameters	Generation	Disposal	Generation	Disposal	Generation	Disposal
CCA Qty	0.33 MT (36.2)		1705 Nos. (33.1)		37 MT (36.1)	
Apr-20	0	0	0	0	0	0
May-20	0	0	0	0	0	0
Jun-20	0	0	0	0	0	0
Jul-20	0	0	0	0	0	0
Aug-20	0	0	0	0	0	0
Sep-20	0	0	0	0	0	0
Total	0	0	0	0	0	0
Disposed to	To TSDF M/s. BEIL, Dahej		Sold to Vendors		To TSDF M/s. BEIL, Dahej	

Non-hazardous Waste				
Fly Ash				
Month / Parameters	Generation	Disposal		Balance
CCA Qty	86400 MT	Bricks / Road Manufacturing	Cement Manufacturing	
Apr-20	1234	0.00	847.45	4102.05
May-20	4708	382.17	3989.55	4438.63
Jun-20	7170	470.41	5213.31	5924.50
Jul-20	5156	0.00	2335.85	8744.86
Aug-20	7711	1545.86	5002.62	9907.60
Sep-20	6616	1543.86	6147.67	8831.89
Total	32595	3942	23536	41950
Disposed to	100 % Utilization achieved			

For Grasim Industries Ltd.
(Chemical Division)



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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.	<ul style="list-style-type: none"> • 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 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.	<ul style="list-style-type: none"> • 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-20. • 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 dated 29/06/2016 shall be implemented in letter and spirit.	All the recommendations / commitments made in the revised EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad have been implemented.

For Gresim Industries Ltd.
(Chemical Division)




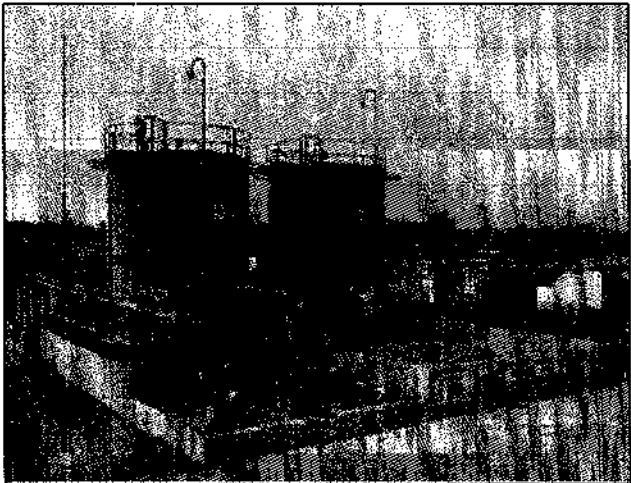
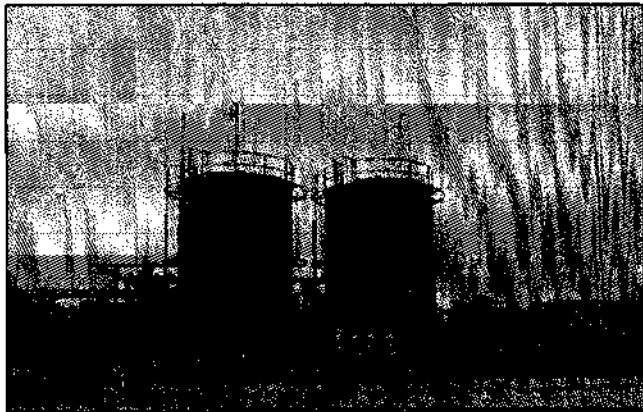
President & Unit Head
Authorized Signatory

Description	Type of pollutant / Wastes	Source	Pollution control Arrangement / mitigation measures	Compliance measure
Air Environment	PM, SO ₂ , NO _x	Boiler	<ul style="list-style-type: none"> • ESP and low NO_x burner are provided to control the particulate matter and NO_x respectively • Lime stone are added to reduce SO₂ emissions 	<ul style="list-style-type: none"> • We have installed ESP & Low NO_x Burner with our boiler stack to control the particulate matter and NO_x respectively. • We are using lime stone to reduce emission of SO₂
	CL ₂ , HCL	Process	<ul style="list-style-type: none"> • Alkali scrubber and waste scrubber are provided to control the process gas emission 	<ul style="list-style-type: none"> • We have installed Alkali Scrubber & Water Scrubber to reduce process gas emission
	HCL, CL ₂	Fugitive emission from equipment leak valves, flanges, pump seal, compressors, sampling connection, open ended lines	<ul style="list-style-type: none"> • Leak proof technology for valve and pumps • Plugs, 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 system • Enclosure of seal area double condenser system are provided • The vents of the secondary condenser connected with the scrubber 	<ul style="list-style-type: none"> • 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 system is provided • Enclosure of seal area double condenser system are provided • The vents of the secondary condenser connected with the scrubber
	CO ₂ and other gases	Fugitive emission from sources such as open surfaces, ETP, surface impoundments, retention ponds.	<ul style="list-style-type: none"> • Covering of all open surfaces wherever possible • Sensors are provided in work place area 	<ul style="list-style-type: none"> • All open surfaces are covered • Sensors have been provided in work place area.
Water Environment	Low pollution potential	Domestic waste water	<ul style="list-style-type: none"> • Domestic effluent is in Sewage Treatment Plant (STP) and treated wastewater is used for gardening purposes 	<ul style="list-style-type: none"> • Domestic effluent is treated in Sewage Treatment Plant (STP) and treated wastewater is used for gardening purposes.
Noise Environment	Structure - borne noise: the vibration transmitted may activate the building where it mounted without proper installation. Air borne noise due to air turbulence at equipment / structure and etc.	Vehicle, Transportation, Water Cooling Towers, Air - cooled chillers, Fans, Ducts, Others plant equipment & machinery.	<ul style="list-style-type: none"> • To reduce the noise generation during the transportation activities the vehicle 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 are checked periodically and serviced to reduce the noise generation • Complete enclosure with silencers at condenser fan outlets and at air inlets 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. 	<ul style="list-style-type: none"> • Vehicles are kept periodically services and maintained to reduce the noise generation during the transportation • Acoustic mat on the water surface have been provided to reduce the water splashing noise • All the vibrating parts are checked periodically and serviced to reduce the noise generation • Complete enclosure with silencers at condenser fan outlets and at air inlets of the enclosure is fabricated • Green belt is being developed around the plant peripheral.
Biological Environment	Particulate Emission	Manufacturing process and other ancillary activities	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Green belt is developed & maintained as per EB expert and CPCB guidelines.
Land Environment	Gaseous / Particulate emission	Manufacturing process Transportation	<ul style="list-style-type: none"> • Treated effluent 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 effluent it is periodical checked / maintained. Solid / hazardous waste is collected, stored in a designated storage area with proper flooring before its final disposal 	<ul style="list-style-type: none"> • Treated effluent 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.

37	All necessary precautionary shall be taken to avoid any kind of accident during storage and handling of toxic/hazardous chemicals, especially chlorine, hydrogen, CS ₂ , HCl etc.	We have developed job safety analysis procedure and trainings have been provided to all employees. Proper controls are provided to mitigate any emergency.
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For Grasim Industries Ltd.
(Chemicals Division)

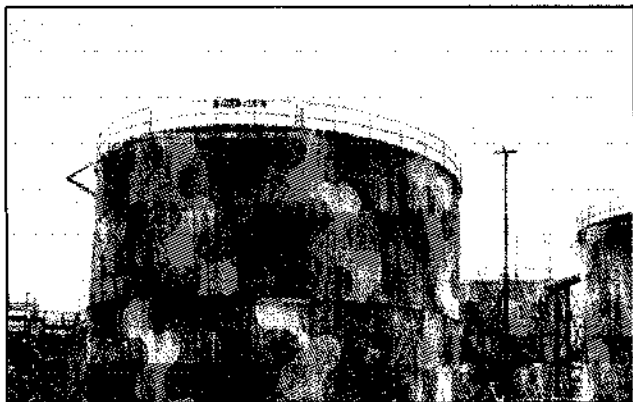
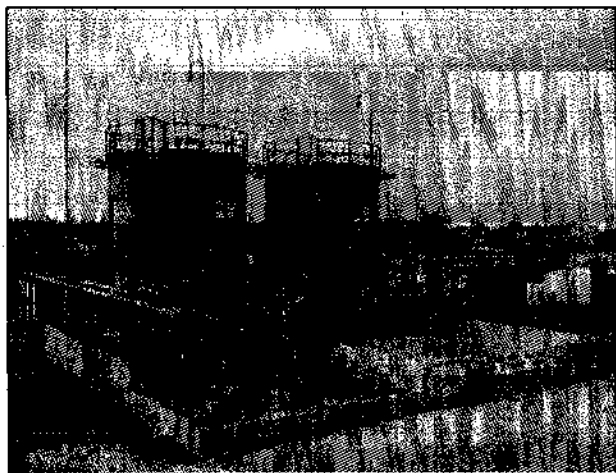

President & Unit Head
Authorized Signatory

38	Storage of flammable chemicals shall be sufficiently away from the production area.	<p>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.</p> <p>Photograph of tank:</p>  
39	Sufficient no. of fire extinguishers shall be provided near the plant and storage area.	Sufficient nos. of Fire extinguishers are provided.
40	All necessary precautionary measures shall be taken to avoid 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
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.	All the toxic/hazardous chemicals stored in optimum quantity and all necessary permissions in this regard obtained before commencing the expansion activities.


For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
Authorized Signatory

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.	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.	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.	Storage of hazardous chemicals minimized and 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.	<p>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:</p>  

For Grain Industries Ltd.
(Signature)


President & Unit Head
Authorized Signatory

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.	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.	<ul style="list-style-type: none"> • OHC with availability of para-medical staff & ambulance is available round the clock. • We have also tied up with M/s. Sunshine Global Hospital at Bharuch.
48	Personal Protective Equipment's shall be provided to 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.
49	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	We have 36 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.	<ul style="list-style-type: none"> • 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:

For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
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Monthly Training Engagement Calendar - Sep'2020						
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
	SAFETY FIRST KEEP YOUR HANDS CLEAN		PR Plant Process overview 07 Emp. + 02 Hrs. = 14 MH Mr. Mohd. Patel	PA Plant DCS process control overview 07 Emp. + 02 Hrs. = 14 MH Mr. Kishan Bhus	Happy TEACHERS' Day 	
Theoretic al knowledge & Analysis on Instruments(QA) 04 Emp. + 02 Hrs. =14 MH Mr. Ajay Sharma	DCS Operations Liquid(PAC) 04 Emp. + 02 Hrs. = 14 MH Mr. Vignesh Mahalingam Emergency Management (Gowd) 04 Emp. + 02 Hrs. =04 MH Mr. Vignesh Chokla	Cognitive Skills Session, No. 11 (Week) Employees (Wednesday) 13 Emp.+05 hrs. = 10 MH Trainer: Mr. Prasad Kulkarni	 Employees will be given Engagement, Strategy and Interventions during the Training Participants: Group 1: Emp. + 02 Hrs. = 02 MH Trainer: Mr. Kishan Bhus	Employees will be given Engagement, Strategy and Interventions during the Training Participants: Group 2: Emp. + 04 Hrs. = 02 MH Trainer: Mr. Kishan Bhus		
SAP & Success & Operations (ALCP) 04 Emp. + 02 Hrs. = 14 MH Mr. Nageshwar Reddy	ON THE GO! TRAINING 	Identification & Awareness Session for COVID-19 10 Emp. + 02 Hrs. = 12 MH Trainer: Mr. Mohd. Patel	Identification & Awareness Session for COVID-19 10 Emp. + 02 Hrs. = 12 MH Trainer: Mr. Mohd. Patel Venue: Auditoria	Online Participation 04 Emp. + 02 Hrs. = 12 MH Mr. Kishan Bhus	Awareness Session for COVID-19 10 Emp. + 02 Hrs. = 12 MH Trainer: Mr. Mohd. Patel Venue: Auditoria	
Operation Knowledge of DNT Plant (Process, QA) 04 Emp. + 02 Hrs. = 12 MH Mr. Satishwar Singh	On Job Training Learn. Earn. Lead.	OHL & Tailored awareness in PA Plant 07 Emp. + 02 Hrs. = 14 MH Mr. Mohd. Patel	Covid- 19 Awareness Session for contract labourers 10 Emp.+02 Hrs. = 12 MH Trainer: Mr. Mohd. Patel Venue: Main Gate	Identification & Awareness Session for COVID-19 10 Emp. + 02 Hrs. = 12 MH Trainer: Mr. Mohd. Patel	DCS Operator in PA Plant 04 Emp. + 02 = 16 MH Mr. Kishan Bhus	
DCS Operations & Qualities Requirements (CPR) 08 Emp. + 02 Hrs. = 16 MH Mr. Prasad Agarwal	Covid- 19 Awareness Session for contract labourers 10 Emp.+02 Hrs. = 12 MH Trainer: Mr. Mohd. Patel Venue: Main Gate					

Yajinder Kaur

Yajinder Kaur


Yajinder Kaur

Yajinder Kaur

51	<p>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.</p>	<ul style="list-style-type: none"> 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. <i>Due to Covid-19 pandemic, six monthly medical check-up was not conducted in last six months.</i>
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For Grasm Industries Ltd.
General Delivery

President & Unit Head
Horizon Elementary

52	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<p>We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.</p> <p>Photograph of tanker:</p> 
53	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	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.	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 conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<ul style="list-style-type: none"> • 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:

For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
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- Monthly Analysis Report from Aditya Environ refer as **Annexure-21**
- Agency & Address: Aditya Environ 240 & 241, Girnar Khushbu Plaza, GIDC Vapi
- NABL: TC-8238 dated 01/01/019 valid till 31/12/2021

Details of instrument Used for Monitoring:

Instrument Name: Sound Level Meter

Instrument Sr. No.: N 701169

Calibration Certificate No.: ML/MCH/2846/1/2019-20

Calibration Date: 18/03/2020


Expiry Date: 17/03/2021

	Nr. Main Gate		Nr. ALCP Plant		Nr. PAC Plant		Nr. C12 Area	
Month / Parameters	Day Reading	Night Reading	Day Reading	Night Reading	Day Reading	Night Reading	Day Reading	Night Reading
Unit	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
GPCB Limit	75	70	75	70	75	70	75	70
Apr-20	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--
Aug-20	71.2	64.5	69.5	67.4	68.5	59.8	72.2	66.5
Sep-20	64.5	59.8	68.9	60.5	66.3	60.2	64.5	62.5
Min	71.2	64.5	69.5	67.4	68.5	59.8	72.2	66.5
Max	71.2	64.5	69.5	67.4	68.5	59.8	72.2	66.5
Avg.	71.2	64.5	69.5	67.4	68.5	59.8	72.2	66.5

	Nr. ETP		Nr. Coal Tippler		Fiber Main Gate		Fiber Material Gate	
Month / Parameters	Day Reading	Night Reading	Day Reading	Night Reading	Day Reading	Night Reading	Day Reading	Night Reading
Unit	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
GPCB Limit	75	70	75	70	75	70	75	70
Apr-20	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--
Aug-20	70.6	60.2	69.9	61.5	72.3	61.4	71.6	60.8
Sep-20	70.5	64.2	69.8	69.5	70.1	52.6	65.8	59.8
Min	70.6	60.2	69.9	61.5	72.3	61.4	71.6	60.8
Max	70.6	60.2	69.9	61.5	72.3	61.4	71.6	60.8
Avg.	70.6	60.2	69.9	61.5	72.3	61.4	71.6	60.8

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.


For Grasim Industries Ltd.
(Chemical Division)




President & Unit Head
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A.7 ENERGY CONSERVATION:		
56	The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.	<ul style="list-style-type: none"> 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.
57	The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented.	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 <u>Annexure-22</u> .
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 system.	Solar landscaping lights are installed for Admin Building and roof mounted solar panels is in process for checking feasibility.
59	The transformers and motors shall have minimum efficiency of 85%.	All transformers are of higher efficiency > 98 %
60	Variable frequency drives shall be installed.	40 nos. of Variable frequency drivers are installed for energy saving.
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.	We have only LED light fixtures across the site.
62	Energy saving practices as follows shall be practiced.	Energy saving practices and initiatives are in place.
•	Constant monitoring of energy consumption and defining targets for energy conservation.	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.	Light fixtures have been installed as per lux level requirement in the different area.

For Gresim Industries Ltd.
(Chemical Division)


President & Unit Head
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•	Use of solar cells for lighting.	We have received offers from 2-3 vendors. We shall finalize the same and install solar lighting.
•	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.	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:	--
a	Metering and control of quantities of active ingredients to minimize waste. For Grasim Industries Ltd. (Chemical Division)	We have provided flow meters for wastewater generation. We have installed RO system for reducing the effluent 192 KLD. 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.


 President & Unit Head
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b	Reuse of by-products from the process as raw materials substitutes in other process.	<ul style="list-style-type: none"> 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.
c	Use of automated and enclosed filling to minimize spillages.	We are using automated and closed filling to minimize spillages.
d	Use of close feed system into batch reactors.	We are using close feed system into batch reactors.
e	Dry cleaning / mopping of floor instead of floor washing.	Floors are cleaned through mopping.
f	Use of high pressure hoses for cleaning to reduce wastewater generation.	Light pressure hoses are used for cleaning and reduce the wastewater.

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.

Sr. No.	Village Name	Total Acre	Number of Tree Plantation	Time Line
1	Saran-2	2	4000	2020-21
2	Sarnar -2	2	4000	2021-22
3	Vilayat -2	2	4000	2022-23
4	Vorasamni	2	4000	2023-24
5	Derol	2	4000	2024-25
		10	20000	

For Grasim Industries Ltd.
(Chemical Division)

• We have developed greenbelt along with boundary wall & planted different plant species in campus area. Following are the list of plant species. Plant species were selected as per the directives of CPCB & DFO.

Existing Plantation Species:

Neem (*Azadirachta indica*), Kasood (*Cassia siamea*), Pine/Junglisaru (*Casuarina equisetifolia*), Orchid tree (*Bauhinia blakeana*), Gulmohar (*Delonix regia*), Rain tree (*Samanea saman*), Yellow Gulmohar (*Peltophorum ferrugineum*), Bottle brush (*Callistemon sp.*), Earleaf Acacia (*Acacia auriculiformis*), Kadamb (*Neolamarckia cadamba*), Basant Rani (*Tabebuia rosea*), Safeda (*Eucalyptus*), *Bougainvillea spectabilis*, Lawn Plantation and Shrubbery.

The Existing Spices for plantation are Selected by following CPCB guidelines.

Proposed Plantation Species:

Neem (*Azadirachta indica*), Kasood (*Cassia siamea*), Pine/Junglisaru (*Casuarina equisetifolia*), Orchid tree (*Bauhinia blakeana*), Saptparni (*Alstonia scholaris*), Gulmohar (*Delonix regia*), Rain tree (*Samanea saman*), Shisham (*Dalbergia sissoo*), Bel (*Aegle marmelos*), Arjun tree (*Terminalia arjuna*), Cassia fistula (*Amaltas*), Yellow Gulmohar (*Peltophorum ferrugineum*), Bottle brush (*Callistemon sp.*), Kadamb (*Neolamarckia cadamba*), Semal/Kapok (*Bombax ceiba*), Jamun (*Syzygium cumini*).

Apple blossom tree (*Cassia javanica*), Sausage tree (*Kigelia pinnata*), Basant Rani (*Tabebuia rosea*), Morpankhi (*Thuja occidentalis*), Safeda (*Eucalyptus*), Guh babool (*Acacia farnesiana*), Kaner (*Nerium indicum*), Champa (*Plumeria rubra*), Holy basil (*Ocimum tenuiflorum*), Jarul (*Lagerstroemia speciosa*), *Bougainvillea spectabilis*, Lemon (*Citrus lemon*), Sankuppi (*Clerodendrum inerme*), Lawn Plantation and Shrubbery etc.

Gaseous emission (SO₂ & NO_x) tolerant species: Neem (*Azadirachta indica*), Bel (*Aegle marmelos*), Kasood (*Cassia siamea*), Earleaf Acacia (*Acacia auriculiformis*), Saptarni (*Alstonia scholaris*), Aldu (*Ailanthus excelsa*), Siris (*Albizia lebbeck*), Shisham (*Dalbergia sissoo*), Pipal (*Ficus religiosa*), White fig (*Ficus infectoria*), Maulsari (*Mimusops elengi*), Kaner (*Nerium indicum*), Jarul (*Lagerstroemia speciosa*) etc.

Green Belt Development Photographs:



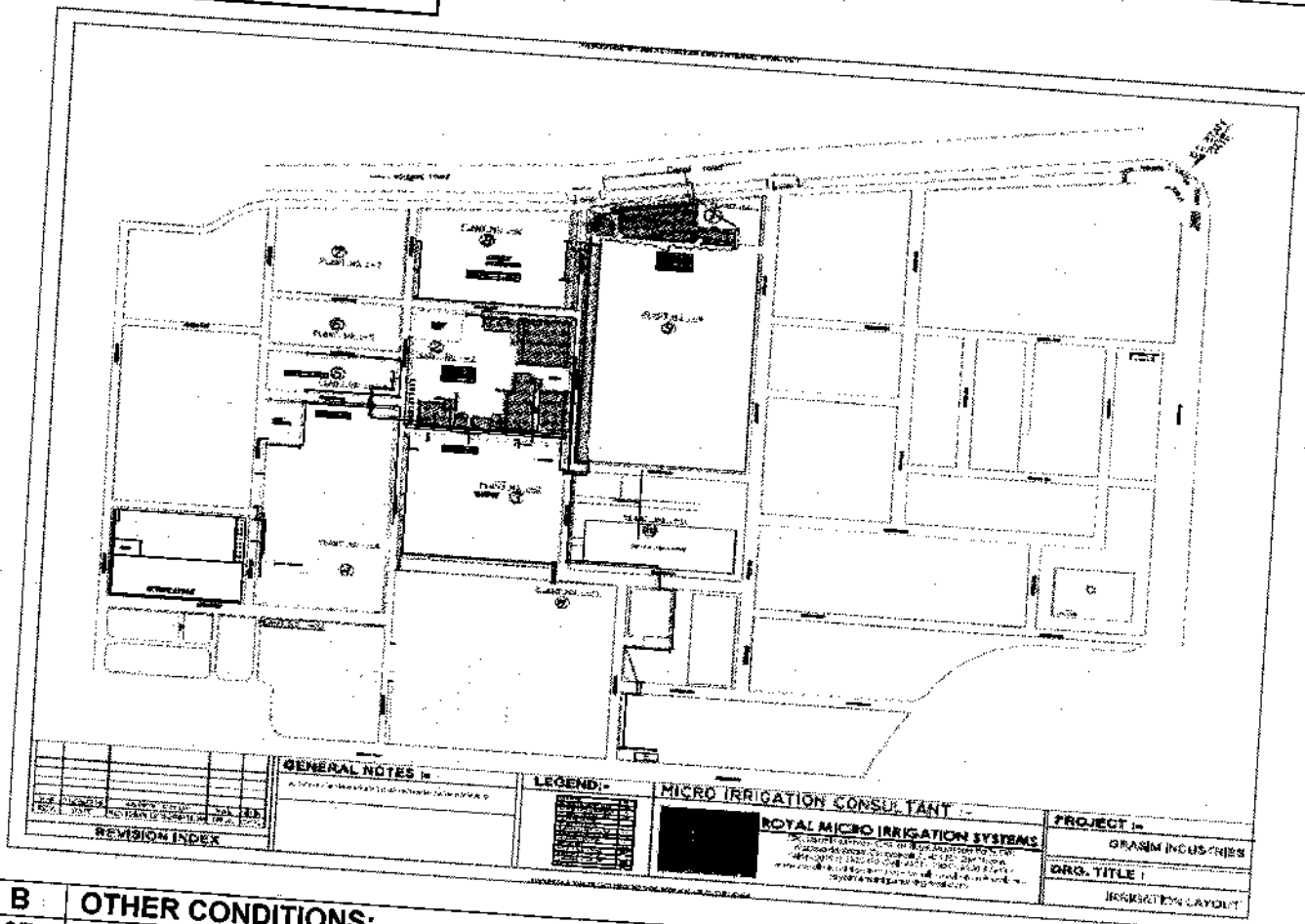
For Grasim Industries Ltd.
(Petroleum Division)

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President & Unit Head
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- 66 Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development. Drip irrigation / low-volume, low angle sprinkler are used for green belt development. Total 22,000 Sq. Meter area is covered under drip irrigation & low angle sprinkler system.

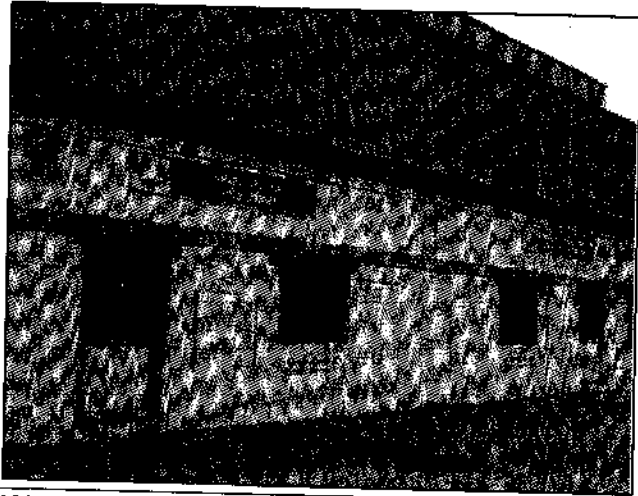
Please Refer STP Network



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.
	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.
	Recommendations made in the EIA/EMP were submitted & implemented.

For Grasim Industries Ltd.
(Chemical Division)

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President & Unit Head
Authorized Signatory

69	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority. CCA Compliance Report is attached as <u>Annexure-23</u> .
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.	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.
71	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<p>We have provided RCC and / acid brick line flooring in the required areas.</p> <p>Photograph of RCC flooring:</p> 
72	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
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.	All future expansion or modifications in the plant will be carried out after 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 along with their amendments and rules.	<p>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.</p> <p>For Grasim Industries Ltd. (Chemical Division)</p>

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President & Unit Head
Authorized Signatory

- 75 The company shall undertake socio-economic developmental / community welfare activities as per the CSR Rules 2014.
- 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-24**.

Separate fund / budget is identified / sanctioned on annual basis for Environmental management. A year wise expenditure on environmental safeguards is also reported.

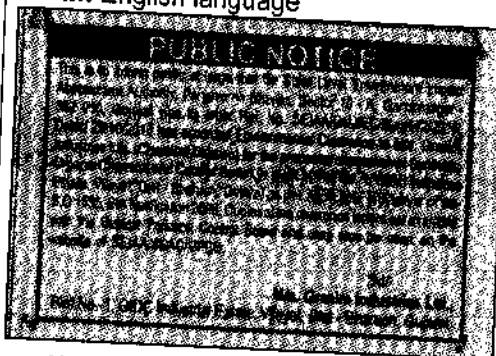
Fund Utilized for Environment Management		
Sr. No.	Particulars	Value (in Crores)
1	CTE / CCA Application	0.15
2	GPCB sampling & analysis charges	0.05
3	Schedule-I Environment Audit	0.5
4	Monthly Monitoring by Third party	0.5
5	Waste Management	12
6	Green Belt Development	0.5

- 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.

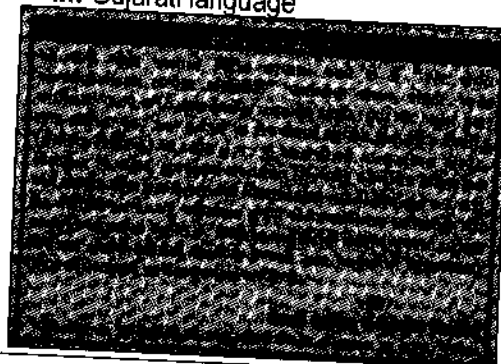
- 77 The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. This shall be advertised within seven days from the date of the 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.

- 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.
- English and Gujarati Newspaper advertisement of the Environment Clearance is as per below and the same is attached as **Annexure-25**.

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




For Grasim Industries Ltd.
 (Chemical Division)

[Signature]


President & Unit Head
 Authorized Signatory

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.	<ul style="list-style-type: none"> 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.
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.	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.
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.	The data submitting herewith are factual and are not false / fabricated.
81	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	We are complying all the conditions stipulated 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.	We have been complying the conditions issued by the SEIAA. No suspension order issued by the SEIAA till date.
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.	<p>We are implementing conditions stipulated by the board in a time bound manner.</p> <p>For Grasim Industries Ltd. (Chemical Division)</p>


 President & Unit Head
 Authorized Signatory

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.	<ul style="list-style-type: none"> • 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
85	This environmental clearance is valid for seven years from the date of issue.	The EC is valid for 5 years and we are submitting half yearly compliance report to GPCB RO, MoEF RO and SEIAA on regular basis. Before due date of the EC, we have encase the same via CTE and CCA.
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.	There is no appeal against this environmental clearance lie with the National Green Tribunal.

For Grasim Industries Ltd.
(Chemical Division)



President & Unit Head
Authorized Signatory

ANNEXURE-1

**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**

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)/ 76 /2011

30 MAY 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	
2	Liquid Chlorine / Hydrochloric Acid	219000 TPA (600 TPD)
3	Hydrogen	197100 TPA (540 TPD)
4	Chlorosulphonic Acid	61320000 Nm3/Year (168000 Nm3/day)
5	Sulphuric Acid	73000 TPA (200 TPD)
6	Carbon Disulphide	38500 TPA (100 TPD)
7	Liquid Poly Aluminium Chloride	31025 TPA (85 TPD)
8	Staple Bleaching Powder	146000 TPA (400 TPD)
9	Chlorinated Paraffin	36500 TPA (100 TPD)
10	Aluminium Chloride	36500 TPA (100 TPD)
11	Power Generation	14600 TPA (40 TPD) 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 further.

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 SO_x & 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, NO_x, Cl₂, HCl, PM₁₀ 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.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, 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.
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 gullage 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 conform 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, Parivash 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



No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/ 98 /2012

2107 HW 22 Date:

Amendment to Environment Clearance Order No:-

22 MAR 2012

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

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) 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 :

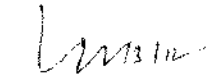
18. Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 96 MW Power Plant. Two stacks, each of 125 meter height shall be provided for the proposed power plant.

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 (EIA) Notification, 2006 and Environment

With regards,

Yours sincerely,



(R.G.SHAH)

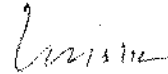
Member Secretary

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, Parvash Bhavan, OSD -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

ANNEXURE-2

COPY NAME CHANGE NAME CHANGE LETTER

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



Government of Gujarat

STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/678/2019

Date: 4 MAY 2019 BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/1(d),4(d)&5(f)/96/2011 dated 30/05/2011 and amended vide order No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dated 22/03/2012.

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

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to Environmental Clearance [EC] granted to M/s. Grasim Industries Ltd. (Chemical Division) located at Plot no. 1, GIDC Industrial Estate, Vilayat, Ta: Vagra, Dist. Bharuch, vide this office letter no. SEIAA/GUJ/EC/1(d),4(d)&5(f)/96/2011 dated 30/05/2011 and amended vide order No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dated 22/03/2012, is being subjected to amendment for the following change in the project.

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 and amended vide order No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dated 22/03/2012, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. SIA/GJ/IND2/26018/2011 dated 16/02/2019. The project was scheduled for hearing in the SEAC meeting held on 27/02/2019.

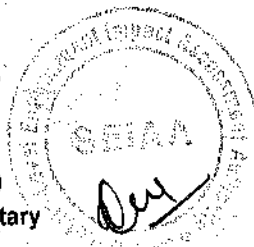
The SEAC, Gujarat had recommended the project vide their letter dated 01/04/2019 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 27/02/2019. The proposal was considered by SEIAA, Gujarat in its meeting held on 02/04/2019 at Gandhinagar. After careful consideration, Environment Clearance order is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. Name of the industry shall be read as "M/s. Grasim Industries Ltd. (Chemical Division)" Instead of "M/s. Grasim Cellulosic (A unit of Grasim Industries Ltd)":

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/1(d),4(d)&5(f)/96/2011 dated 30/05/2011 and amended vide order No. SEIAA/GUJ/EC/1(d),4(d)&5(f)/98/2012 dated 22/03/2012 shall remain unchanged.

With regards,
Yours sincerely,

(S. M. SAIYAD)
Member Secretary



Issued to:

M/s. Grasim Industries Ltd. (Chemical Division)
Plot no. 1, GIDC Industrial Estate, Vilayat,
Ta: Vagra, Dist. Bharuch- 392012

ANNEXURE-3
COPY OF PESO LICENSE



GOVERNMENT OF INDIA
O/o DY.CHIEF CONTROLLER OF EXPLOSIVES
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)
(Formerly Department of Explosives)
VADODARA SUB CIRCLE OFFICE

Tel : 2225159,
Fax : (265)-
Email : dyccebaroda@explosives.gov.in

8th Floor, Yash Kamal Building,
Sayajigunj
Vadodara -390020

No : G/WC/GJ/06/1803 (G34271)

Date : 30 Aug 2013

To,
✓ M/S. GRASIM INDUSTRIES LTD,
5 & 6, 3RD FLOOR, SHREE MANGALAM COMPLEX,
KASAK CIRCLE,
BHARUCH - 392002,
District : BHARUCH
State : Gujarat

Sub: Storage of 20 Nos - CHLORINE in cylinders at Plot No. : 1 GIDC INDL. ESTATE, Village : VILAYAT- District :
BHARUCH State : Gujarat - Licence No. G/WC/GJ/06/1803 (G34271) granted in Form F of Gas Cylinder Rules
2004 - Inspection & Endorsement of licence regarding.

Sir,

Please refer to the Jt.Chief Controller of Explosives, Mumbai's Memo No. G/WC/GJ/06/1803 (G34271) dated
6/8/2013 and inspection of the above premises by the undersigned /an officer of this office on 17/8/2013.

The subject licence is returned herewith duly endorsed. The receipt of the licence may please be acknowledged.

Please note that your application for further renewal should reach this office on or before 30th Septemebr, 2022
along with all the documents as required under Rule 55(5) of Gas Cylinder Rules, 2004. Application for renewal of licence
received after 30th September, 2022 but not later than 30th September, 2023 be considered only with penalty fee vide rule
55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th September, 2023.

premises should be maintained as per approved drawing.

Yours faithfully,

(Shivchandra D. Mishra)

Dy. Controller of Explosives

for Dy. Chief Controller of Explosives

Vadodara Sub Circle Office, Vadodara

Copy forwarded for information to:-

1)The Jt.Chief Controller of Explosives,West Circle ,Mumbai with reference to his endorsement as above.

Dy. Chief Controller of Explosives, Vadodara

INSPECTED AND ENDORSED

शिवचन्द्र डी. मिश्रा
उप विस्फोटक नियंत्रक
कृते उप मुख्य विस्फोटक नियंत्रक
वडोदरा.



Form F

(See Rules 50, 51 and 54)



Licence to store compressed gas in cylinders

Licence No : G/WC/GJ/06/1803 (G34271)

Fee Rs : 500/- per year

Licence is hereby granted to M/S. GRASIM INDUSTRIES LTD, 5 & 6, 3RD FLOOR, SHREE MANGALAM COMPLEX KASAK CIRCLE BHARUCH-392002 valid only for the possession of cylinders filled with compressed gas in the licensed premises described below and shown in the plan No. G/WC/GJ/06/1803 dated 5 August, 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.

The licence shall remain in force up to 30th day of September, 2022.

The 5 August, 2013

[Signature]
Jt. Chief Controller of Explosives
West Circle, Mumbai
West Circle, New Mumbai

DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. G/WC/GJ/06/1803 dated 5 August, 2013 are situated at VILAYAT and consists of a storage shed for possession of the gas contained in cylinders as described here under:

	Type of Gas	Quantity
a)	Toxic	20 Nos-CHLORINE,
b)	Non-Toxic and Non Flammable	
c)	Non-Toxic and Flammable	
d)	Dissolved Acetylene Gas	
e)	Non-Toxic & Flammable liquefiable gas other than LPG	
f)	Liquefied Petroleum Gas	

and is situated at Plot No : 1 Name of Street : GIDC INDL. ESTATE Village/Town : VILAYAT Police Station : VAGRA District : BHARUCH.

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, 2004, framed thereunder or of the conditions of the licence.			

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.

CONDITIONS

1. (a) The licensed premises shall not be used for any purpose other than the keeping of compressed gas filled in cylinders.
- (b) All cylinders used for storage of L.P.G. CNG and Auto L.P.G. shall comply with provisions of OMR 150-144, 150, 150-144, 150, 150-144, 150, 150-144 and 150 as the case may be.
2. Compressed gas cylinders shall be stored only in the storage shed, which shall be constructed of suitable non-flammable materials provided that, when only non-flammable gas filled in cylinder is stored, the ceiling, interior, exterior, windows and doors may be of wood.
3. The storage shed shall be adequately ventilated under the ground level and near or in the roof. In case the storage shed is used for keeping L.P. gas cylinder, the ventilation shall be provided with two thickness of fine copper or other non-corroding metal wire gauze of mesh not less than 11 to the inner diameter.
4. As far as possible, different types of gases should not be stored in the same shed. Where different types of gas cylinders are stored in the same shed, cylinders may be grouped together depending on the nature of the gas contained therein e.g. flammable gas cylinders shall be separated from cylinders containing non-flammable gases by an intervening space of one metre or by a fire resisting partition wall. In between them and cylinders containing toxic gases shall be segregated from the cylinders containing non-toxic gases by a suitable partition wall.
5. The following distances shall be kept clear at all times, between any building, public place, public road or any adjoining property which may be built upon and the storage shed used for the storage of liquefied petroleum gas cylinder.

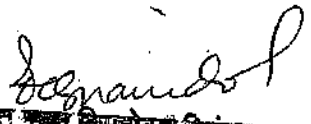
Quantity of compressed gas in Cylinders		Minimum distance to be kept clear
Kg	Meters	
0	101	
101	2000	3
2001	3000	4
3001	4000	5
4001	5000	6
5001	6000	7
6001	7000	8
7001	8000	9
8001	9000	10
9001	10000	11
10001	12000	12
12001	20000	13
over 20000		15

- Provided that the distances specified above may be reduced by the Chief Controller (i) where screen walls are provided or other special precautions taken, or (ii) where there are special circumstances which in the opinion of the Chief Controller would justify such reduction.
6. Notwithstanding anything contained in condition 5 above, cylinders containing liquefied petroleum gas exceeding 100 Kg. but not exceeding 500 Kg. may be kept in a storage shed forming part of, or attached to a building, provided that it is separated therefrom by a substantial partition and the only means of access to it is from outside etc, with a storage shed shall not be situated under any staircase or near other entrance to, or exit from the rest of the building or other buildings.
 7. A shed used for storage of liquefied petroleum gas cylinders shall be surrounded by a suitable brick masonry compound wall of 1.8 metres high with a 1.2 metre wide gate to prevent unauthorized person from having access to the shed and its safety zone.
Note : Suitable space for parking of truck and unloading/loading of cylinders shall be provided by the licensee.
 8. This wall cylinders shall not be stacked in a horizontal position, provided that in case of liquefied petroleum gas cylinders, the following method of stacking may be permitted:-
 - (a) filled cylinders shall be stored vertically and not be stacked more than 2 high;
 - (b) empty cylinders if stored vertically, shall not be stacked more than 3 high and; if stored horizontally, shall not be stacked more than 5 high;

- (iii) the pile of the cylinders shall be kept stable by using blocks at the ends;
- (iv) at least 30 centimeter wide gangway, to permit access and manouvering of cylinders, shall be left between stacks of single or double rows and between stacks and walls.
9. The chemical name(s) of the gases shall be prominently displayed in the storage shed.
10. The storage shed shall be in the charge of a competent person.
11. Any accident, fire, explosion or untoward incident occurred within the licensed premises shall be immediately reported to the Chief Controller (Chem. "EXPLOSIVES", Nepal, E-mail: explosives@nepal.gov.np), Controller, District Magistrate and the Officer-in-Charge of the nearest Police Station and by quickest mode of communication.
12. Any person storing gas cylinders, when called upon by a notice in writing, to propose any additions, alterations or repairs to the gas cylinders storage shed, which in the opinion of the inspecting authority, are necessary for the safety of the premises, shall execute the said additions, alterations or repairs within such period not being less than one month from the date of receipt of the notice, as may be specified in the notice.
13. No shed used for storage of flammable gases shall be opened and no handling of the gas cylinders shall be permitted between the hours of sunset and sunrise, except where approved electric lighting is exclusively used.
14. The storage shed and the area surrounding it shall at all times be kept clean and free from all flammable materials, waste, vegetation and rubbish.
15. (a) No fire, furnace or other source of heat or light other than flameproof electric light and fittings shall be allowed in the storage shed and within the safety zone required to be maintained under condition 5.
(b) No person shall smoke in the storage shed or carry matches, flares, mobile phones or other appliances producing ignition in the premises. Conspicuous "No smoking" signs in Hindi, English and the regional language shall be posted or hung up at prominent places outside the storage shed.
16. The licensee shall provide at the licensed premises a minimum of two portable foam type/ordinary chemical type fire extinguishers of 10 kg. each BIS marked or approved which shall be kept ready at a convenient location for immediate use in the event of any fire in addition to other fire fighting or other mitigating facilities required for flammable or toxic gases.
17. Free access to the licensed premises shall be given at all reasonable times to any of the officers listed in Rule 71 and every facility shall be afforded to such officer for ascertaining that the rules and the conditions of this license are duly observed.

Additional conditions for a licence in Form 'F' of the Gas Cylinder Rules, 2004 for storage of liquid chlorine in tonners and cylinders.

1. A valve hood assembly preferably of tie rod type for controlling leakage of chlorine through valve of a Tonner or cylinder should be made available in the premises and the supervisor / workman should be trained in handling of the same.
2. The arrangement for neutralization of at least 900 kg. of liquid chlorine should be readily available in the premises. A suitable tank to hold 1160 kg. of caustic soda and 3680 litres of water should be provided in the premises. A suitable pipeline with perforated distributor at one of the ends should be also made available for use during neutralization. The tonner / cylinder should never be immersed in the caustic soda solution.
3. At least one self contained breathing apparatus and two cannister type gas masks shall be kept in / or near the premises in a readily accessible location.
4. Ammonia torches for locating chlorine leaks shall be made available in / or near the premises.
5. A weather cock shall be provided in a suitable location for determining wind direction so that in case of leakage of chlorine, the workers can move against wind direction.
6. Emergency kit consisting of various appliances and tools including valve hood assembly for cylinders and tonners, clamp for cylinder valve leaks and chain and yoke assembly for tonner valve leak shall be available with the licensee.
7. In case of closure / lock - up of plant, no cylinders containing chlorine shall be retained in the premises.


Jt. Chief Controller of Explosives,
West Circle, New Mumbai.
West Circle, New Mumbai.



भारत सरकार/Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
आठवीं मंजिल, यश कमल बिल्डिंग, सयाजी गुंज
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

दिनांक/Dated : 26/02/2018

अनुज्ञप्ति सं./No : S/HO/GJ/03/1445(S52646)

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

28 FEB 2018

विषय :/Sub : Plot No. 1, GIDC Industrial Estate, Vilayat Taluk Vagra, District: BHARUCH, State: Gujarat, PIN: 999999 स्थित CHLORINE, गैस के संपीड़ित 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, District: BHARUCH, State: Gujarat, PIN: 999999 - 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 : 08/02/2018 के पत्र संख्या: OIN161822 का संदर्भ ग्रहण करें /Please refer to your application No.OIN161822 dated 08/02/2018 .

अनुज्ञप्ति संख्या : S/HO/GJ/03/1445 का नवीकरण दिनांक 30th सितंबर 2022 तक कर इसके साथ अद्योपि की जा रही है ।
Licence Number: S/HO/GJ/03/1445 is renewed and is valid upto 30th September 2022 is forwarded herewith.

दिनांक 30/09/2022 से आगे अनुज्ञप्ति नवीनीकरण हेतु उपरोक्त नियम के नियम 55 के प्रावधानों का पालन किया जाए । विलंब शुल्क से बचने हेतु शुल्क के साथ मूल अनुज्ञप्ति तथा अन्य दस्तावेज अधिकतम दिनांक : 30 सितंबर, 2022 तक The Dy. Chief Controller of Explosives, 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 30/9/2022. The renewal application along with fees, Original licence and other documents shall reach in the Office of The Dy. Chief Controller of Explosives, Vadodara, latest by 30th September, 2022 to avoid late fee.

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

भवदीय/Yours faithfully,

((रजनीश पिप्लानी)
(Rajnish Piplani)

उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
वडोदरा/Vadodara

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



FORM LS-1A/एस्प - एनएस-1क

(See Rules 50, 51, 54 and 55)/(नियम 50, 51, 54 और 55 देखें)

Licence to Store Compressed gas in pressure vessel or vessels
दाब पात्र या पात्रों में संपीड़ित गैस भण्डारण के लिए अनुमति

अनुमति सं/Licence No. : S/HO/GJ/03/1445(S52646)

फीस रूप/fee Rs. 50000/- per year/प्रति वर्ष

Licence is hereby granted to Grasim Industries Limited, Plot No.1, GIDC Vilayat Industrial Estate, Vilayat Taluk Vagra, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat PIN: 392140 valid only for the storage of compressed gas in 6 Number(s) of pressure vessels as indicated below in the licensed premises described below and shown in the plan No.S/HO/GJ/03/1445(S52646) dated 26/02/2018 subject to the provisions of the Indian Explosives Act, 1884 (4 of 1884) and the rules made thereunder and to the further conditions of this licence.

श्री Grasim Industries Limited, Plot No.1, GIDC Vilayat Industrial Estate, Vilayat Taluk Vagra, Vilayat, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat PIN: 392140 को नीचे वर्णित अनुमति परिसरों में और रेखांकन संख्या S/HO/GJ/03/1445(S52646) dated 26/02/2018 में भारतीय विस्फोटक अधिनियम, 1884 (1884 का

4) और उसके अधीन बनाए गए नियमों तथा इस अनुमति की अन्य शर्तों पर 6 दाब पात्र / पात्रों में संपीड़ित गैस के भण्डारण के लिए अनुमति मंजूर की जाती है।

यह अनुमति 30 सितंबर 2022 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 30th September 2022.

Vessel No./वैसल नंबर	Name of Gas/गैस का नाम	State of Gas/गैस की स्थिति	Water Capacity in cubic meter/जल क्षमता (घ.मी.)	Max. working Pre. (kg/cm ²)/अधिकतम वर्किंग प्रेशर	Quantity Granted in kgs(Liquidified gas)/किलोग्राम में जारी मात्रा (लिक्विफाइड गैस)
1409 A	CHLORINE	Liquidified	100.00	13.033	114000
1409 B	CHLORINE	Liquidified	100.00	13.033	114000
1409 C	CHLORINE	Liquidified	100.00	13.033	114000
1409 D	CHLORINE	Liquidified	100.00	13.033	114000
1409 E	CHLORINE	Liquidified	100.00	13.033	114000
1409 F	CHLORINE	Liquidified	100.00	13.033	114000
Total Water capacity			600.00		

3d/-

March 11, 2013

For Chief Controller of Explosives
HQ, Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

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

The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. S/HO/GJ/03/1445 dated 26/02/2018 are situated at Vilayat Taluk Vagra and consists of 6 Number(s) vessel(s) (out of 6 vessel(s), one vessel each for CHLORINE, CHLORINE, CHLORINE, CHLORINE, CHLORINE, CHLORINE, of largest capacity will be kept empty for emergency for storage of /अनुमति परिसर, प्रदर्शित सीमा और अन्य विवरण जो संलग्न अनुमोदित रेखाचित्र क्र. S/HO/GJ/03/1445 दिनांक 26/02/2018 में दर्शाए गए हैं Vilayat Taluk Vagra पर स्थित हैं और इसमें 6 वैसल सम्मिलित हैं।

a) Flammable/Corrosive/Toxic Gases /ज्वलनशील / संस्कारक / विषैली गैसें: CHLORINE

and is situated at Plot No. : 1 Village/Town : Vilayat Taluk Vagra Police Station : District : BHARUCH, State: Gujarat .

/प्लॉट संख्या Plot No. : 1 गांव या नगर : Vilayat Taluk Vagra पुलिस थाना जिला BHARUCH राज्य Gujarat में स्थित है।

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

	Date of Renewal/नवीकरण की तारीख	Date of Expiry/अनुमति की समाप्ति की तारीख	Signature and stamp of the licensing authority/अनुशासन प्राधिकारी के हस्ताक्षर और कार्यालय की मुद्रा
This licence shall be renewable without any concession in fee for three years in the absence of contravention of the provision of the Indian Explosives Act, 1884, or the Static and Mobile Pressure Vessels (Unfired) Rules, 2016, framed thereunder or of the conditions of the licence./अनुमति, भारतीय विस्फोटक अधिनियम, 1884 या उसके अधीन अर्थात् बनाए गए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में, फीस में बिना किसी छूट के तीन वर्ष तक नवीकृत की जाएगी।	26/02/2018	30/09/2022	 Rajnish Piplani Chief Controller of Explosives, Vadodra

This licence is liable to be cancelled if the licensed 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./यदि निरीक्षण के समय अनुमति परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुमति मंजूर की गई है, उनमें से किसी का उल्लंघन होता है तो उस दशा में यह अनुमति रद्द की जा सकती है और अनुमति 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।



भारत सरकार / Government of India
वाणिज्य और उद्योग मंत्रालय / Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन / Petroleum & Explosives Safety Organisation (PESO)
आठवीं मंजिल, यश कमल बिल्डिंग, 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

दि/ Dated : 07/10/2019

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

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/Sub : Plot No. 18 2 Survey No 357 Paiky, GIDC Industrial Estate Taluka Vagra, VILAYAT, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 999999 में सिलिण्डरों में CHLORINE गैस का भरण-एवं भण्डारण गोहाउन-गैस सिलेण्डर, से नियम, 2016 के अंतर्गत फॉर्म 'इ' एवं 'एफ' में जारी अनुज्ञति 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. 18 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

अनुज्ञति 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, अनुज्ञति के पुनः नवीकरण हेतु आवेदन The Dy. Chief Controller of Explosives, Vadodara इस कार्यालय को इस अनुज्ञति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर 2028 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 नहीं होने की स्थिति में यह अनुज्ञति रद्द विरस्त 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
कुते 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>)



फॉर्म ई / FORM E

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

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

अनुमति संख्या/Licence No. : G/HO/GJ/05/733(G31658)

M/s. Grasim Industries Limited, Plot NO 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140, को दीये वर्णित और रेखांक संख्या G/HO/GJ/05/733(G31658) dated 13/03/2013 में दशित किए गए अनुमति परिसर में अग्रणी विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुमति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेंडरों को रखने के लिए ही विधिमान्य अनुमति 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 अनुमति 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

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

निम्नलिखित विवरण के अनुसार सिलेंडरों में गैस भरने के लिए अनुमति परिसर, जिसकी अभिव्यास 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 जोड़े गए CHLORINE - 28 Nos. (2x9+10) फिलिंग प्वाइंट्स हैं। / 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 facilities 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 Petroleum Gas	--NIL--

और प्लॉट संख्या Plot No. : 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 Plot No. : 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 पृष्ठानक के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

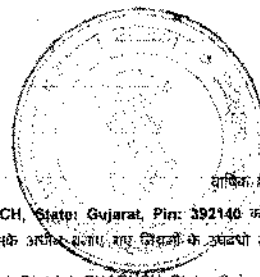
नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुमति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
07/10/2019	30/09/2028	<p>इस अनुमति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलेंडर नियम, 2016 के उपबंधों या इस अनुमति की शर्तों का उल्लंघन न होने की 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</p> <p>Sanjay Kumar CE For Dy. Chief Controller of Explosives Vadodara</p> <p>एच.कुमार, निदेशक, विस्फोटक, वडोदरा Dy. Chief Controller of Explosives, Vadodara</p>

यदि अनुमति परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुमति दी गई है, उनमें से किसी का उल्लंघन होता है तो यह अनुमति रद्द की जा सकती है और अनुमति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकती है, या जुर्माने से, जो तीन हजार रुपये तक का हो सकता है, 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.

अनुमति की शर्त संख्या 8 में निहित कुछ भी होते हुए, सूर्यास्त और सूर्योदय के मीतर, 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.



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



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

वार्षिक शुल्क 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 लीके वर्णित और रखरक संख्या G/HO/GJ/06/724(G31658) dated 13/03/2013 में दशित किए गए अनुमति परिसर में भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों के उपबंधों तथा इस अनुमति की अन्य शर्तों के अधीन रहते हुए वेल्डिंग गैस से बने सिलिंडरों को रखने के लिए है। विषयवस्तु अनुमति दी जाती है। /

License 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 अनुमति 30 सितम्बर 2028 तक प्रवृत्त रहेगी। / The Licence shall remain in force till the 30th September 2028.

For Chief Controller of Explosives
Nagpur
दूत मुख्य विस्फोटक विभाग
नागपुर

March 13, 2013

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

विशदलिखित विवरण के अनुसार सिलिंडरों में गैस रखने के लिए अनुमति परिसर जिसकी अतिरिक्त सौभाग्य और अन्य विशदियों को संलग्न अनुमति संख्या सं G/HO/GJ/06/724 dated March 13, 2013 में दिखाया गया 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) ज्वलनशील के अलावा गैर विषैले और ज्वलनशील द्रवित गैस / Non-Toxic & Flammable liquefiable gas other than LPG	-NIL-
f) एलपीजी / Liquefied Petroleum Gas	-NIL-

और प्लॉट संख्या Plot No. 1 & 2 Survey No 357 Paiky गली का ग्राम गाँव : VILAYAT का तालुका पुलिस स्टेशन : Vagra जिला : BHARUCH राज्य : Gujarat
/ and is situated at Plot No. 1 & 2 Survey No 357 Paiky Village/Town : VILAYAT Police Station : Vagra District : BHARUCH State: Gujarat.

अवकाश के पुनर्जांच के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

नवीकरण की तारीख / Date of Renewal	समाप्ति की तारीख / Date of Expiry	अनुमति प्राधिकारी के हस्ताक्षर / Signature and stamp of the licensing authority
07/10/2019	30/09/2028	Sanjay Kumar CE For Dy. Chief Controller of Explosives Vadodara मुख्य विस्फोटक विभाग, वडोदरा Dy. Chief Controller of Explosives, Vadodara

यदि अनुमति परिसर इसमें उल्लेख विवरण और शर्तों के अनुसार नहीं पाया जाता है और जिस नियमों और शर्तों के अधीन यह अनुमति दी गई है, इसमें से किसी का उल्लंघन होता है तो यह अनुमति रद्द की जा सकती है और अनुमति का धारक ज़रूरत से जितनी अधिकारी को बताने की आवश्यकता है, या जुर्माना है, या तीन हजार रुपये तक का हो सकता है, या दोनों से दण्डनीय हो सकता है। / This licence is liable to be cancelled if the licensed 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
 शक्ति और उद्योग मंत्रालय / Ministry of Commerce & Industry
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन / Petroleum & Explosives Safety Organisation (PESO)
 आठवीं मंजिल, यश कमल बिल्डिंग, सायाजी गंज
 वडोदरा - 390020
 8th Floor, Yash Kamal Building, Sayajigunj, Vadodara - 390020

ईमेल /E-mail : dyccebaroda@explosives.gov.in

दूरभाष /Phone/Fax No : 0265 - 2225159

दि/Date : 07/10/2019

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

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 सिलिण्डरों में HYDROGEN गैस का भरण एवं भण्डारण गैस सिलिण्डर नियम, 2016 के अंतर्गत फार्म 'इ एच' एक में जारी अनुमति 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.

अनुमति 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 सिलिण्डर नियम, 2016 के नियम 55(5) के अनुसार, अनुमति के पुन. नवीकरण हेतु आवेदन The Dy. Chief Controller of Explosives, Vadodara इस कार्यालय को इस अनुमति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर 2029 को या इससे पूर्व) जमा कर दें। दिनांक 30 सितम्बर 2029 के पश्चात परंतु दिनांक 30 सितम्बर 2030 से पूर्व प्राप्त नवीनीकरण आवेदन, गैस सिलिण्डर नियम, 2016 के नियम 55(7) के अनुसार विलंब शुल्क के साथ ही विचारार्थीन होगा। दिनांक 30 सितम्बर 2030 तक कोई नवीनीकरण आवेदन प्राप्त नहीं होने की स्थिति में यह अनुमति 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 की प्राप्ति की प्राप्ति दे/ 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 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>)



फॉर्म नं. 1 FORM E

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

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

अनुमति संख्या/Licence No.: G/HO/GJ/05/738(G31857)



वार्षिक शुल्क Rs/ 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 रेखांकित स्थलों G/HO/GJ/05/738(G31857) dated 14/05/2013 में दर्शाए गए अनुमति परिसर में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का) और उसके अधीन बनाए गए नियमों के अंतर्गत तथा इस अनुमति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलेंडरों को रखने के लिए ही विधिवानुमति अनुमति 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(G31857) dated 14/05/2013 subject to the provisions of the Explosives Act, 1884 (1 of 1884) and the rules made thereunder and to the further conditions of this licence.

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

May 14, 2013

For Chief Controller of Explosives

Nagpur
को मुख्य विस्फोटक नियंत्रक
भारत

1) Amendment dated - 18/10/2018

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

विस्तारित विवरण के अनुसार सिलेंडरों में गैस भरने के लिए अनुमति परिसर, जिसकी अभिव्यक्ति योजनाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांकित 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 योइन्ट्स हैं। / 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 facilities for filling of the gas(es) in cylinders as described here under:

गैस का प्रकार Type of Gas	मात्रा /Quantity
a) विषैला/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) एसिटिलीन के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	-NIL-
f) द्रवित पेट्रोलियम गैस /Liquefied Petroleum Gas	-NIL-

और प्लॉट 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 पुंजांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुमति प्राधिकारी की हस्ताक्षर/Signature and stamp of the licensing authority
इस अनुमति को, विस्फोटक अधिनियम, 1884, या उसके अधीन बनाए गए गैस सिलेंडर नियम, 2016 के अंतर्गत या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में, फीस में कोई छूट दिए बिना दस वर्षों 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	07/10/2018 30/09/2029	 Sanjay Kumar CE For Dy. Chief Controller of Explosives Vadodra मुख्य विस्फोटक नियंत्रक, वडोदरा Dy. Chief Controller of Explosives, Vadodra

यदि अनुमति परिसर इससे उपायय विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुमति दी गई है, उनमें से किसी का उल्लंघन होता है तो यह अनुमति रद्द की जा सकती है और अनुमति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकती है, या जुर्माने से, जो तीन हजार रुपये तक का हो सकता है, या दोनों से, दण्डनीय भी होगा। / This licence is liable to be cancelled if the licensed 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.

अनुमति की शर्त संख्या 8 में विहित 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.

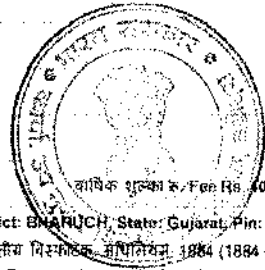
- सभी ऑपरेशन एक सक्षम व्यक्ति के पर्यवेक्षण में किए जाने चाहिए। / All operation should be carried out under supervision of a competent person.
- पर्याप्त प्रकाश व्यवस्था प्रदान की जाएगी। / Adequate lighting are provided.
- सूर्यास्त और सूर्योदय के दौरान सिलेंडरों का प्रेषण नहीं किया जाएगा। / Cylinders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



फॉर्म F / FORM F

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

Licence to store compressed gas in cylinders



वार्षिक शुल्क Rs./ Fee Rs. 4000/- per year

अनुमति संख्या/ Licence No. : G/HO/GJ/06/725(G31657)

M/s. Grasim Industries Limited, Plot No 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140 को लीचे वर्णित और रेखांक संख्या G/HO/GJ/06/725(G31657) dated 14/05/2013 में दर्शित किए गए अनुमति परिसर में भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बख्श गए नियमों के उपबंधों तथा इस अनुमति की अन्य शर्तों के अधीन रहते हुए, केवल संपीड़ित गैस से भरे सिलिंडरों को रखने के लिए ही विधिवानुमति 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/06/725(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 अनुमति 30 सितंबर 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

वाडोदरा

May 14, 2013

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

प्रस्तावित विवरण के अनुसार सिलेण्डरों में भरी गैस रखने के लिए अनुमति परिसर, जिसकी अभिव्यास योजनाओं और अन्य विशिष्टियों का संलग्न अनुमोदित रेखांक संख्या G/HO/GJ/06/725 dated May 14, 2013 से दिखाया गया है, में अवस्थित है और जिसमें एक अणुकरण शेड है। / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. G/HO/GJ/06/725 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) द्रवशील गैस के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	-NIL-
f) द्रवशील गैस / Liquefied Petroleum Gas	-NIL-

और / and is situated at Plot No : 1 गाँव का नाम / Village : Vilayat या नगर पुलिस थाना : जिला : BHARUCH, राज्य : Gujarat.

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

नवीकरण की तारीख / Date of Renewal	समाप्ति की तारीख / Date of Expiry	अनुमति प्राधिकारी के हस्ताक्षर / Signature and stamp of the licensing authority
07/10/2019	30/09/2029	<p>Sanjay Kumar CE For Dy. Chief Controller of Explosives Vadodara</p> <p>मुख्य विस्फोटक नियंत्रक, वाडोदरा Dy. Chief Controller of Explosives, Vadodara</p>

यदि अनुमति परिसर इससे उल्लंघन विवरण और शर्तों के अनुसूची नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुमति दी गई है, उनमें से किसी का उल्लंघन होता है तो यह अनुमति रद्द की जा सकती है और अनुमति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकती है, या जुर्माने से, जो तीन हजार रुपये तक का हो सकता है, या दोनों से दण्डनीय हो सकता है। / This licence is liable to be cancelled if the licensed 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.



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.),
Mumbai - 400614

E-mail : jtcemumbai@explosives.gov.in

Phone/Fax No : 022 - 27575946, 27573881

No : A/G/WC/GJ/GCT/11(G58778)

Dated : 09/01/2020

To,

M/s. Grasim Industries Ltd,
Plot no.1, GIDC Vilayat Industrial estate,
Bharuch,
Taluka: Vagra,
District: BHARUCH
State: Gujarat
Pin : 392140

Sub : Periodical Examination and testing of **CHLORINE** , **Seamless** cylinders at **Plot No, plot no. 1 , GIDC Industrial Estate, , Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 392140.** Approval under Gas Cylinders Rules, 2016 regarding.

Sir(s),

Please refer to the inspection of your works by an office of the office of the Dy. Chief Controller of Explosives Vadodara ,Vadodara on 27/10/2014.

There is no objection to your carrying out periodic examination and testing of **CHLORINE** , **Seamless** cylinders in your above mentioned container testing station subject to the observance 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 experienced personnel.
- 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 be 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 date of expiry of service life of the cylinder, as the case may be,shall be clearly 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 accreditation with NABCB(Indian Accreditation Body)within 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 maintenance 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 thereof 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, amended or withdrawn at any time, if considered necessary in the interest of safety or if any of the conditions mentioned above is violated or not complied with.

This permission is valid for the period upto **30/09/2020** 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.

A Copy of Lay out drawing is returned here with duly endorsed in token of approval

Yours faithfully,

(kanak singh Meena)
Dy. Controller of Explosives
For Jt. Chief Controller of Explosives
Mumbai

Copy together with a copy of approved drawing is forwarded to Dy.
Chief Controller of Explosives Vadodara ,Vadodara .With reference to
his Memo Number: _____

For Jt. Chief Controller of Explosives
Mumbai

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. For documentary purposes, only the original documents issued under the seal and signature of the respective offices of Petroleum & Explosives Safety Organization shall be valid. 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.

सीड पोस्ट
Bharuch



भारत सरकार
Government of India
व्यापार और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसा)
Petroleum & Explosives Safety Organisation (PESO)



E-mail : explosives@explosives.gov.in

Phone/Fax No : 0712 -2510248, Fax-251057

संख्या /No : PHQ/GJ/15/5344 (P296022)

दिनांक /Dated : 30/09/2019

सेवा में /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

30 SEP 2019

विषय /Sub Plot No. 1, G.I.D.C. Vilayat Industrial Estate, Vilayat, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 394120 में स्थित पेट्रोलियम वर्ग B अधिष्ठापन - पेट्रोलियम नियम 2002 के अंतर्गत प्रत्येक XV 1 द्वारा अनुमति से PHQ/GJ/15/5344 (P296022) - संशोधन के संबंध में।
Existing Petroleum Class B Installation at Plot No. 1, G.I.D.C. Vilayat Industrial Estate, Vilayat, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 394120 - Licence No. PHQ/GJ/15/5344 (P296022) - granted in form XV Under Petroleum Rules 2002 - Amendment regarding

महोदय /Sir (s),

कृपया आपके उपर्युक्त विषय से संबंधित पत्र संख्या GRDC/SHE/PESO/19-20/12 दिनांक 17/09/2019 का संदर्भ ग्रहण करें।

Reference to your letter No. GRDC/SHE/PESO/19-20/12 dated 17/09/2019 on the above subject.

दिनांक 31/12/2023 तक वैध अनुमति संख्या PHQ/GJ/15/5344 (P296022) दिनांक 30/09/2019 निम्नलिखित वर्ग एवं मात्राओं में पेट्रोलियम भंडारण के लिए यथा संशोधित कर इस पत्र के साथ लौटाई जा रही है।

Licence No. PHQ/GJ/15/5344 (P296022) dated 30/09/2019 valid upto 31/12/2023 is returned herewith duly amended with respect to Lay out Amendment.

पेट्रोलियम का विवरण /Description of Petroleum

किग्रा/लीटरों में अनुमति क्षमता /Quantity licensed in KL

वर्ग A प्रयुक्त पेट्रोलियम /Petroleum Class A, in bulk
वर्ग B प्रयुक्त पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk
वर्ग B प्रयुक्त पेट्रोलियम /Petroleum Class B, in bulk
वर्ग B प्रयुक्त पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk
वर्ग C प्रयुक्त पेट्रोलियम /Petroleum Class C, in bulk
वर्ग C प्रयुक्त पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk

NIL
NIL
420.00 KL
NIL
NIL
NIL

कुल क्षमता /Total

420.00 KL

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(Dr. D. Jeevarathnam)

Dy. Controller of Explosives
उप मुख्य विस्फोटक नियंत्रक
For Chief Controller of Explosives
Nagpur

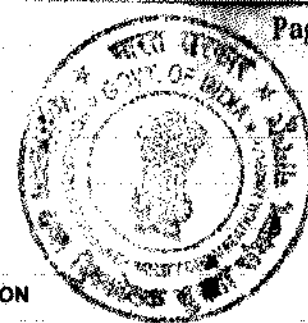
Copy forwarded to :-

1. The District Magistrate, BHARUCH (Gujarat) with reference to his NOC No POL/NOCAMS/1486/1997/2438 Dated 08/02/2014
2. Jt. Chief Controller of Explosives, West Circle, MUMBAI. A Copy of the licence along with approved plan is enclosed
3. The Dy. Chief Controller of Explosives, Vadodra. A Copy of the licence along with approved plan is enclosed.

For Chief Controller of Explosives
Nagpur

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

प्रारूप 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

फीस रूप (Fee Rs.) 23500/- per year

अनुज्ञप्ति नं. (Licence No.) : P/HQ/GJ/15/5344(P296022)

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 विनिर्दिष्ट 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 02/07/2014 जो कि इससे उपाबद्ध है, 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 है।

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 02/07/2014 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2023 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2023

पेट्रोलियम का विवरण /Description of Petroleum

अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity
licenced in KL

वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk

NIL
NIL
420.00 KL
NIL
NIL
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 विशिष्टता संलग्न अनुमोदित नक्शों में दिखाई गई हैं Plot No: 1, G.I.D.C. Vilayat Industrial Estate, Vilayat, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 394120 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, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 394120 and consists of Three aboveground Petroleum Class B storage tanks together with connected facilities. together with connected facilities.

अनुमति संख्या (Licence No.) P/HO/SJ/15/5344 (P205023)

SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उनके अधीन
कानून, गैर विधायी या दस अनुवर्ति की शर्तों का उल्लंघन न
होने की शर्तों में यह अनुवर्ति किस में बिना किसी कूट के दस
वर्ष तक प्रतीकृत हो जा सकती।
This licence shall be renewable without any
contribution in fee for ten years in the absence of
contravention of any provisions of the Petroleum
Act, 1934 or of the rules framed thereunder or of
any of the conditions of this licence.

Date of Renewal

समाप्ति की तारीख
Date of
Expiry of license

अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प
Signature and office stamp of the licencing
authority.

11.

30/10/2018

31/12/2023

Sd/-
Anil Kumar Yadav
Controller of Explosives
For Dy. Chief Controller of Explosives
Vadodara

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan 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 for the first offence with simple imprisonment which may be extended to three months, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

अनुमोदित

APPROVED

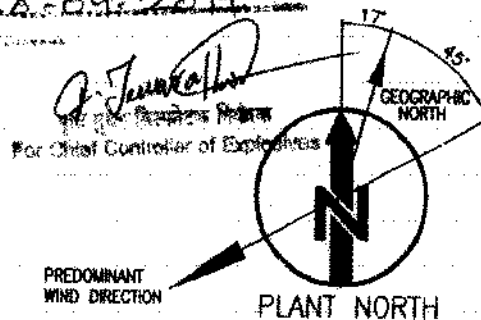
वर्ग पत्र क्र.

Vibh. Let. (3):

दिनांक

Date

P/Ho/G2V/15/5344 (P-296022)



NOTES:-

1. ALL DIMENSIONS ARE IN MM, ELEVATIONS AND CO-ORDINATES ARE IN METERS, UNLESS OTHERWISE STATED.
2. FFL+0.000M CORRESPONDS TO EL+11.5M ABOVE MEAN SEA LEVEL.
3. ALL VALVES SHALL BE TESTED AS PER STANDARD CODE REQUIREMENTS.
4. ALL ELECTRICAL EQUIPMENT SUCH AS MOTORS LOCAL STATIONS AND LIGHT FITTINGS SHALL BE OF INCREASED SAFETY TYPE.
5. TANK DESIGN IS AS PER API 650.
6. PUMP MOTOR IS EQUIPPED WITH FLAME PROOF ENCLOSURE AS PER IS:2148
7. SMOKING IS PROHIBITED INSIDE TANK AREA.
8. ALL FLANGE JOINTS BONDING PROVIDED FOR PROTECT STATIC CHARGE.
9. HIGH LEVEL & LOW LEVEL ALARMS & INTERLOCKS PROVIDED TO ALL STORAGE TANKS.
10. USE ANTISTATIC HOSE PIPE FOR UNLOADING PETROLEUM CLASS 'B' FROM TRUCK.
11. ALL UNDERGROUND PIPELINE, ROAD CROSSING THROUGH HUME PIPE WITH 4MM(2x2) RAPPING COATING FOR PROTECTION OF CORROSION.

LEGEND:-

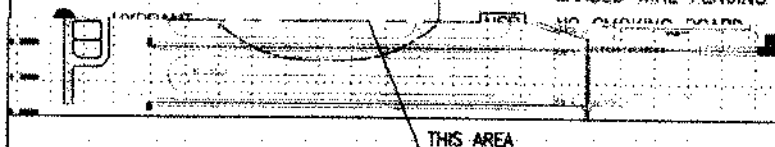
FFL- FINISHED FLOOR LEVEL
FGL- FINISHED GRADE LEVEL
TOG - TOP OF GROUT



EMERGENCY SHOWER

HAND RAILING

BARBED WIRE FENCING



KEY PLAN

OWNER : GRASIM INDUSTRIES LIMITED

UIN	Document ID	Code	Part	Group	Rev.
660161700	0161-LA-87-EA-00001		-		02
Store Location: Server/Share \\Contract File Server		Document-ID-BAR-Code			
Store Location: Folder \\660161-AGA\\Acad\\Load\\Dry\\Piping\\Unit Plot Plan					
Store Name 0161-LA-87-EA-00001					
Pro. Unit	Con. Unit	TON	Type of Document	Order No.	Tot. Sheets
87	-	-	EA	-	1 OF 1



GRASIM INDUSTRIES LIMITED
VILAYAT GUJARAT

		Date	Name	Designation
ISSUED & ISSUED FOR PESO APPROVAL	Drawn	02.04.12	ABC	LAYOUT PLAN FOR PETROLEUM CLASS 'B' (HSD, LNP. & WAXOL) STORAGE TANK (FOR PESO APPROVAL)
MITTED FOR PESO APPROVAL	Prepared	02.04.12	RPH	
ED FOR PESO APPROVAL	Checked	04.04.12	KRK/MPK	
FOR PESO APPROVAL	Approved	05.04.12	SRK/EBG	
Description	Scale	Cat. Code	Acc. Code	
	1:150	-	-	-

20

21

22

23

24

ANNEXURE-4
POWER PLANT STACK ANALYSIS REPORTS

TEST REPORT (STACK MONITORING)

Test Report No.	UERL/20/06/GIL/S-006	Report Issue Date	02/07/2020
Service Request form No.	UERL/AIR/D/SRF/06/S-006	Service Request Date	24/06/2020
Sample ID No.	UERL/AIR/D/ID/S-20/06/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/06/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	24/06/2020	Date of Testing	25/06/2020
Stack Sampling Attached to	Power Plant 1		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

➤ Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	28/06/2019	Next Calibration Due On	27/06/2020

➤ General Stack Monitoring Observation

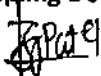
Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	32
4.	Flue Gas Temperature	°C	141
5.	Exit Gas Velocity	m/s	1.4
6.	Exit Gas Flow	m ³ /h	167158.2

➤ Test Parameter Results

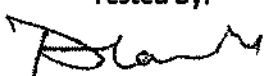
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	68	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	77	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	44	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

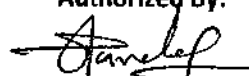
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT (STACK MONITORING)

Test Report No.	UERL/20/06/GIL/S-007	Report Issue Date	02/07/2020
Service Request form No.	UERL/AIR/D/SRF/06/S-007	Service Request Date	24/06/2020
Sample ID No.	UERL/AIR/D/ID/S-20/06/007	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/06/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	24/06/2020	Date of Testing	25/06/2020
Stack Sampling Attached to	Power Plant 2		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	28/06/2019	Next Calibration Due On	27/06/2020

General Stack Monitoring Observation

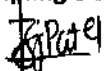
Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	32
4.	Flue Gas Temperature	°C	149
5.	Exit Gas Velocity	m/s	1.3
6.	Exit Gas Flow	m ³ /h	155218.3

Test Parameter Results

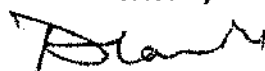
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	53	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	71	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	40	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

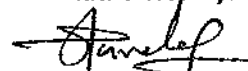
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/20/07/GIL/S-007	Report Issue Date	01/08/2020
Service Request form No.	UERL/AIR/D/SRF/07/S-007	Service Request Date	04/07/2020
Sample ID No.	UERL/AIR/D/ID/S-20/07/007	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/07/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	04/07/2020	Date of Testing	06/07/2020
Stack Sampling Attached to	Power Plant 2		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	27/06/2020	Next Calibration Due On	26/06/2021

➤ **General Stack Monitoring Observation**

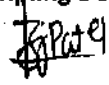
Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	36
4.	Flue Gas Temperature	°C	145
5.	Exit Gas Velocity	m/s	1.1
6.	Exit Gas Flow	m ³ /h	131338.5

➤ **Test Parameter Results**

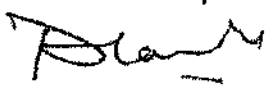
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	62	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	81	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	42	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"


Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT (STACK MONITORING)

Test Report No.	UERL/20/08/GIL/S-006	Report Issue Date	28/08/2020
Service Request form No.	UERL/AIR/D/SRF/08/S-006	Service Request Date	07/08/2020
Sample ID No.	UERL/AIR/D/ID/S-20/08/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/08/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	07/08/2020	Date of Testing	08/08/2020
Stack Sampling Attached to	Power Plant 1		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	27/06/2020	Next Calibration Due On	26/06/2021

General Stack Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	34
4.	Flue Gas Temperature	°C	142
5.	Exit Gas Velocity	m/s	1.3
6.	Exit Gas Flow	m ³ /h	155218.3

Test Parameter Results

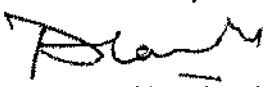
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	78	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	82	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	42	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/20/08/GIL/S-007	Report Issue Date	28/08/2020
Service Request form No.	UERL/AIR/D/SRF/08/S-007	Service Request Date	07/08/2020
Sample ID No.	UERL/AIR/D/ID/S-20/08/007	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/08/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	07/08/2020	Date of Testing	08/08/2020
Stack Sampling Attached to	Power Plant 2		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	27/06/2020	Next Calibration Due On	26/06/2021

➤ **General Stack Monitoring Observation**

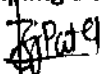
Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	34
4.	Flue Gas Temperature	°C	147
5.	Exit Gas Velocity	m/s	1.2
6.	Exit Gas Flow	m ³ /h	143278.4

➤ **Test Parameter Results**

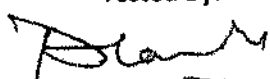
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	69	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	79	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	40	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

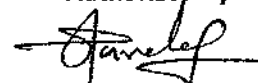
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT (STACK MONITORING)

Test Report No.	UERL/20/09/GIL/S-006	Report Issue Date	28/09/2020
Service Request form No.	UERL/AIR/D/SRF/09/S-006	Service Request Date	04/09/2020
Sample ID No.	UERL/AIR/D/ID/S-20/09/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/09/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	04/09/2020	Date of Testing	05/09/2020
Stack Sampling Attached to	Power Plant 1		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

➤ Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	27/06/2020	Next Calibration Due On	26/06/2021

➤ General Stack Monitoring Observation


Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	34
4.	Flue Gas Temperature	°C	145
5.	Exit Gas Velocity	m/s	1.2
6.	Exit Gas Flow	m ³ /h	143278.4

➤ Test Parameter Results


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	66	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	81	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	40	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/20/07/GIL/S-006	Report Issue Date	01/08/2020
Service Request form No.	UERL/AIR/D/SRF/07/S-006	Service Request Date	04/07/2020
Sample ID No.	UERL/AIR/D/ID/S-20/07/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/07/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	04/07/2020	Date of Testing	06/07/2020
Stack Sampling Attached to	Power Plant 1		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	27/06/2020	Next Calibration Due On	26/06/2021

➤ **General Stack Monitoring Observation**

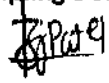
Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	36
4.	Flue Gas Temperature	°C	140
5.	Exit Gas Velocity	m/s	1.2
6.	Exit Gas Flow	m ³ /h	143278.4

➤ **Test Parameter Results**

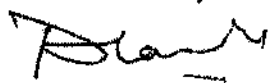
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	73	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	75	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	40	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT (STACK MONITORING)

Test Report No.	UERL/20/09/GIL/S-007	Report Issue Date	28/09/2020
Service Request form No.	UERL/AIR/D/SRF/09/S-007	Service Request Date	04/09/2020
Sample ID No.	UERL/AIR/D/ID/S-20/09/007	Field Data Sheet No.	UERL/AIR/D/FDS/S-20/09/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division, Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch, Gujarat, Pin Code – 392012 (India)		
Date of Sampling	04/09/2020	Date of Testing	05/09/2020
Stack Sampling Attached to	Power Plant 2		
Air Pollution Control Device	ESP (Electrostatic Precipitator)		
Fuel Used	Coal		

➤ Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	27/06/2020	Next Calibration Due On	26/06/2021

➤ General Stack Monitoring Observation

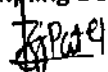
Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	M	125
2.	Stack Area	m ²	33.1663
3.	Ambient Temperature	°C	34
4.	Flue Gas Temperature	°C	144
5.	Exit Gas Velocity	m/s	1.3
6.	Exit Gas Flow	m ³ /h	155218.3

➤ Test Parameter Results

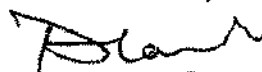
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Method of Test
1.	Particulate Matter	mg/Nm ³	62	<150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	88	<100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	44	<50	IS 11255(Part 7)

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

ANNEXURE-5
BEIL MEMBERSHIP CERTIFICATE



BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)

REF: BEIL/ANK/2020

3rd FEBRUARY, 2020

To,
GRASIM INDUSTRIES LTD. - CHEMICAL DIV. (PLOT NO.1)
PLOT NO. 1, GIDC,
VILAYAT, TALUKA VAGRA,
DIST. BHARUCH,
VAGRA

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 **13000 MT/ Year** (Original Booked Quantity **12000 MT** + Increased Quantity **6000 MT**). Your Membership No. is **OTH/133**.

Thanking you,

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

AUTHORISED SIGNATORY

CIN NO. U45300GJ1997PLC032696

Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02648) 253135, 225228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

ANNEXURE-6

COPY OF ENGLISH & GUJARATI NEWS PAPER ADVERTISEMENT OF EC 2011 & 2012

Times of India

dt. 08.06.2011



Grasim Cellulosic

A Unit of Grasim Industries Ltd

Plot No. 1, GIDC Vilayat Dist: Bharuch, (Gujarat)

Environment Clearance by State Level Environment
Impact Assessment Authority, Gujarat

Vide letter No SEIAA/GUJ/EC/1(d),4(d)&5(f)/96/2011, dated 30.05.2011, which was received on 02.06.2011, the State Level Environment Impact Assessment Authority, Gujarat, has accorded Environmental Clearances for the expansion of Chlor-alkali plant with Caustic Soda plant 219000 TPA and Allied Products Liquid Chlorine/Hydrochloric Acid 197100 TPA, Hydrogen 61320000 Nm³/Year, Chlorosulphonic Acid 73000 TPA, Sulphuric Acid 36500 TPA, Carbon Disulphide 31025 TPA, Liquid Poly Aluminium Chloride 146000 TPA, Staple Bleaching Powder 36500 TPA, Chlorinated Paraffin 36500 TPA, Aluminium Chloride 14600 TPA with additional 60 MW power plant.

Copies of the clearance letter are available with GPCB and may also be seen at website of SEIAA/SEAC/GPCB

Grasim Industries Ltd

Registered Office: PO: Birlagram,
Nagda - 456 331, Dist. Ujjain (M.P)

Gujarati Lok Satta

Dt. 07.06.2011



Grasim Cellulosic

પ્લોટ નં. ૧, જી.આઈ.ડી.સી., વિલાપત, જી.ભરૂચ (ગુજરાત)

રાજ્ય સ્તરીય પર્યાવરણ પ્રભાવ આલેક્ષક પ્રાધિકરણ દ્વારા

પર્યાવરણીય પરવાનગી, ગુજરાત

પત્ર ક્રમાંક : SEIAA/GUJ/EC/1(d). 4(d) & 5(f) 96/2011 તારીખ
૩૦/૦૫/૨૦૧૧ મળેલ તારીખ : ૦૨/૦૬/૨૦૧૧ રાજ્ય સ્તરીય પર્યાવરણ પ્રભાવ
આલેક્ષક પ્રાધિકરણ, ગુજરાત સરકાર વિલાપતમાં કલોર અલ્કલોઈ પ્લાન્ટ અને પ્રોસેસિંગ
સોડા પ્લાન્ટ ૨૧૯૦૦૦ ટન પ્રતિ વર્ષ તથા અન્ય ઉત્પાદન કલોરીન / હાર્ડિયો કલોરીક
એસિડ ૧૯૭૧૦૦ ટન પ્રતિ વર્ષ, હાર્ડિયો જન ૬૧૩૨૦૦૦૦ Nm³ પ્રતિ વર્ષ, કલોરો
સલ્ફોનિક એસિડ ૩૩૦૦૦ ટન પ્રતિ વર્ષ, યલ્ફ્યુરિક એસિડ ૩૬૫૦૦ ટન પ્રતિ વર્ષ,
કાર્બન ડાયસલ્ફાઈડ ૩૧૦૨૫ ટન પ્રતિ વર્ષ, તરલ (લીક્વીડ) પોલી એલ્યુમિનિયમ
ક્લોરાઈડ ૧૪૬૦૦૦ ટન પ્રતિ વર્ષ, સ્ટેપલ બ્લીચીંગ પાઉડર ૩૬૫૦૦ ટન પ્રતિ વર્ષ,
ક્લોરિનેટેડ પેરાફીન ૩૬૫૦૦ ટન પ્રતિ વર્ષ, એલ્યુમિનિયમ ક્લોરાઈડ ૧૪૬૦૦ ટન
પ્રતિ વર્ષ તથા પાવર પ્લાન્ટ ૬૦ MW નો વિસ્તારમાં આવેલ છે.

પરવાનગી પત્રની નકલ GPCB તેમ જાઈ SEAA/SEAC/GPCB પર
પ્રાપ્ય/મળશે.

ગ્રાસીમ ઈન્ડસ્ટ્રીઝ લિમિટેડ

રજી.ઓફિસ: પી.ઓ.બિરલાગ્રામ,

નાગદા - ૪૫૬ ૩૩૧, જી.ઉજજૈન (મધ્યપ્રદેશ)

ANNEXURE-7

COPY OF EC VIDE LETTER NO. SEIAA/GUJ/EC/5(F)/90/2014 DATED 1ST AUG 2014



No. SEIAA/GUJ/EC/5(f)/ 90 /2014

Date: 11 AUG 2014
Time Limit

Sub: Environment 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..... 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 submitted vide letter dated 21/09/2012, additional information / documents submitted vide letter dated 07/07/2014 to the SEAC, seeking Environmental Clearance under Environment impact Assessment Notification, 2006.

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:

Sr No	Name of Product	Quantity (MT/Month)	
		Product	By-Product
Chloromethanes			
1	Methyl Chloride	Produced as 1 st 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 ALCOHOL MANUFACTURING PLANT			
6	Fatty Alcohol	2700	--
7	Crude Alcohol Refining (Light)	--	25
8	Crude Alcohol Refining (Heavies)		144
B) FATTY ALCOHOL FRACTIONATION PLANT			
9	Fractionated Fatty Alcohol -- Light Cut Alcohol	541	5
10	Fractionated Fatty Alcohol -- Middle Cut Alcohol	189	
11	Fractionated Fatty Alcohol - Light	13	

The project activity is covered in project / activity no. 5(f) and 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. 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 & Cl₂.
 - 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 Arrestor for control of VOC.
 - g. Product Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrestor 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 be 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, Cl₂ & 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 CS₂, H₂S, SO₂, NOx, Cl₂, HCl, PM₁₀ 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, 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.
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 gulland 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 conform 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 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 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.

57. 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

(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
(N.K. PATEL)

Member Secretary

ANNEXURE-8

COPY OF CTE VIDE LETTER NO. GPCB/BRCH-B/CCA-70-A(4)/ID-41279/478307 DATED
10TH DEC 2012



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

NO: GPCB/BRCH-B/CCA-70-A (4)/ID-41279/

BY.R.P.A.D

To,
M/s. GRASIM INDUSTRIES LIMITED – CHEMICAL DIVISION
PLOT NO: 1,
GIDC, VILAYAT-392012,
TAL: VAGRA,
DIST: BHARUCH.

SUB: Amendment to Consent to Establish (CTE) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

- REF: (1) Previously issued CCA vide letter No: GPCB/BRCH-B-CCA-70 (A)/ID-41279/218412 dated 07/07/2014 under various Environmental Acts/Rules.
(2) Previously issued CTE Amendment vide letter no: GPCB/BRCH-B-CTE-70-A (2)/ID-41279/233294 dated: 11/12/2014 under various Environmental Acts/Rules.
(3) Previously issued CTE Amendment vide letter no: GPCB/BRCH-B-CCA-70-A (3)/ID-41279/408786 dated 03/04/2017 under various Environmental Acts/Rules.
(4) Previously issued CTE Amendment vide letter no: GPCB/BRCH-B-CCA-70-A (3)/ID-41279/440829 dated 06/01/2018 under various Environmental Acts/Rules.
(5) Your application Inward ID No: 137154 dated: 26/04/2018.

Sir,

This has reference to the CTE Amendment vide letter no: GPCB/BRCH-B-CCA-70-A (3)/ID-41279/440829 dated 06/01/2018 & CTE Amendment issued vide letter no: GPCB/BRCH-B-CCA-70-A (3)/ID-41279/408786 dated 03/04/2017 under various Environmental Acts/Rules, which stands amended as under,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants Amendment to Consent to Establish (CTE) for setting up of an industrial plant/activities by M/s. GRASIM INDUSTRIES LIMITED – CHEMICAL DIVISION at PLOT NO:1, G.I.D.C, VILAYAT-392012, TAL: VAGRA DIST:BHARUCH for the manufacturing of the following items.

1. At the Condition no: 1(of the CTE Amendment dated: 06/01/2018 & CTE Amendment dated: 03/04/2017) following addition shall be read as under,
NAME OF THE ADDITIONAL PRODUCTS ALONG WITH QUANTITY:

Sr. No	Name of Products	Quantity (MT/Month)
1.	Chloromethanes (Methyl Chloride + Chloroform + Carbon Tetra Chloride)	4500
2.	Calcium Hypochlorite (High Strength Bleaching Powder-HSBP)	2000
3.	HCl*	2250
4.	Sodium Chloride** (consist of 90% NaCl)	500
5.	Bleaching Liquid** (consist of 3% Hypo, 10% CaCl ₂ , 65% to 75% water)	5000

*HCl shall be used in phosphoric acid plant as a raw material within premises.

**Bleaching liquid and salt (sodium chloride) shall be sold to end user.

2. **SUBJECT TO THE FOLLOWING ADDITIONAL SPECIFIC CONDITIONS RELATED TO ENVIRONMENT CLEARANCE (EC):-**

- 2.1 Applicant shall strictly comply/fulfill with all the conditions stipulated by competent authority in the order of Environmental Clearance issued by SEIAA vide letter no. SEIAA/GUJ/EC/5(f)/90/2014 Dated: 01/08/2014.

3. **CONDITIONS UNDER WATER ACT:-**

Condition no: 2.1, 2.2 & 2.3 (of the CTE Amendment dated: 06/01/2018) stands amended and shall be read as under,

- 3.1 The quantity of total water consumption shall not exceed 18925 KL/day. (Fresh- 18774.5 KL/day + Reuse- 150.5 KL/day) (Break up as below)

a) Domestic - 471 KL/day

b) Industrial - 18454 KL/day (Fresh- 18303.5 KL/day + Reuse- 150.5 KL/day)

- 3.2 The quantity of total waste water generation shall not exceed 6289.3 KL/day. (Break up as below)

a) Domestic - 356.8 KL/day

b) Industrial - 5932.5 KL/day

* @400 KL/day waste water shall be reused/recycled/reduced.

*Total quantity of waste water discharge of the group companies (i.e. Chemical Division + Cellulosic Division + Epoxy Division) shall not exceeds 23 ML/day at any time.

- 3.3 The quantity of the industrial effluent from the manufacturing process and other ancillary industrial operations shall be 5932.5 KL/day and the quantity of domestic waste water (sewage) shall not exceed 356.8 KL/day.

- 3.4 Condition no: 2.4 (of the CTE Amendment dated: 03/04/2017) stands amended and shall be read as under,

5714.5 KL/day of industrial effluent shall be sent to ETP for primary, secondary and tertiary treatment. After treatment 5679 KL/day of the treated effluent shall be sent for disposal into GIDC underground drainage-Dahej Vilayat Pipeline/Common Disposal System up to the sea and 400 KL/day of the treated effluent shall be reused/ recycled/ reduced as mentioned in the application.



GUJARAT POLLUTION CONTROL BOARD

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4. CONDITIONS UNDER AIR ACT:

Condition no: 3.1, 3.2 & 3.3 (of the CTE dated: 06/01/2018) stands amended and shall be read as under,

4.1 The following shall be used as fuel in Boiler/ D.G.set respectively.

Sr. No.	Fuel	Total Quantity		
		Existing	Proposed	Total
1.	Coal	72000 MT/Month	0	72000 MT/Month
2.	HSD	800 lit/hr (for each 1875 KVA, DG set) 200 lit/hr (for each 750 KVA, DG set)	0	800 lit/hr (for each 1875 KVA, DG set) 200 lit/hr (for each 750 KVA, DG set)
3	Hydrogen Gas for Volatile Reduction Chamber (VRC)	0	200 Nm ³ /hr	200 Nm ³ /hr

4.2 The flue gas emission through stack attached to Boiler/ D.G.set/ coal crusher shall conform to the following standards:

Sr. no.	Stack Attached to	Stack height in meters	APCM	Air Emission	
				Pollutant	Pollutant
1	Boiler 1&2	125	ESP & Low NO _x burners	Particulate Matter	150 mg/Nm ³
2	Boiler 3&4	125		SO ₂	100 PPM
3	D.G. sets (1875 KVA-4 nos.)	36		NO _x	50 PPM
4	D.G. sets (750 KVA-3 nos.)	11			
5	Stack attached to primary coal crusher -1 (proposed)	22.4	Bag filter	Particulate Matter	150 mg/Nm ³
6	Stack attached to secondary coal crusher -2 (proposed)	30.3	Bag filter	Particulate Matter	150 mg/Nm ³

- 43 The Process emission through various stacks/ vents of reactors, process, vessel shall conform to the following standards:

Sr. No.	Stack Attached To	Height (M)	Air Pollution Control system	Parameters with permissible limits
Existing Stacks				
1.	Sodium Hypo Stack -1 (Caustic Plant)	35	Alkali Scrubber	Cl ₂ - 09 mg/Nm ³
2.	HCl stack 1 (Caustic Plant)	35	Water scrubber having bubble cap tray absorption system.	HCl-35 mg/Nm ³
3.	HCl stack 2 (Caustic Plant)	35	Water scrubber having bubble cap tray absorption system.	
4.	Poly Aluminum Chloride liquid	35	Water scrubber system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
5.	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
6.	Aluminum Chloride	35	Alkali scrubbing system	HCl-20 mg/Nm ³ Cl ₂ -9 mg/Nm ³
7.	Stable Bleaching Powder	35	Alkali scrubbing system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
8.	Phosphoric Acid Plant	35	Water scrubber	HCl-20 mg/Nm ³ HF-06 mg/Nm ³
9.	Calcium Chloride	35	Water scrubber	HCl-20 mg/Nm ³
10.	Sodium Hypo Stack-2 (Caustic Plant)	35	Alkali Scrubber	Cl ₂ -09 mg/Nm ³
11.	HCl stack-3 (Caustic Plant)	35	Water scrubber having bubble cap tray absorption system.	HCl-35 mg/Nm ³
12.	HCl stack-4 (Caustic Plant)	35	Water scrubber having bubble cap tray absorption system.	
13.	Poly Aluminum Chloride liquid	35	Water scrubber system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
14.	Poly Aluminum Chloride Powder	35	3 stage water scrubber	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
15.	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
16.	Aluminum Chloride	35	Alkali scrubbing system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³

Outward No. 47630/2018



GUJARAT POLLUTION CONTROL BOARD

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17.	Stable Bleaching Powder	35	Alkali scrubbing system	HCl-20 mg/Nm ³ Cl ₂ -09 mg/Nm ³
18.	Vent attached to Reactor	35	-	H ₂ gas*
Proposed stacks				
19.	Vent attached to dryer-1 (HSBP)	21	Bag filter	Particulate Matter-150 mg/Nm ³
20.	Vent attached to dryer-2 (HSBP)	21	Bag Filter	Particulate Matter-150 mg/Nm ³
21.	Vent attached to dryer-3 (HSBP)	21	Bag Filter	Particulate Matter-150 mg/Nm ³
22.	Vent attached to dryer-4 (HSBP)	21	Bag Filter	Particulate Matter-150 mg/Nm ³
23.	Vent attached to reaction vessel-1 (HSBP)	21	Water / Caustic Scrubber	Cl ₂ -05 mg/Nm ³
24.	Vent attached to reaction vessel-2 (HSBP)	21	Water / Caustic Scrubber	Cl ₂ -05 mg/Nm ³
25.	Hydro Chlorinator Condenser	35	Condenser and guard condenser with cooling water circulation	--
26.	Crude CMS Distillation Column	35	Condenser and guard condenser with cooling water circulation	--
27.	Heavies CMS Distillation Column	35	Condenser and guard condenser with cooling water circulation	--
28.	Volatile Reduction Chamber (VRC)	30	Water and Caustic Scrubber	NO _x - 20 mg/Nm ³ HCl - 20 mg/Nm ³ Cl ₂ - 05 mg/Nm ³

*Industry shall take all precaution so that there shall be no escape of H₂ gas.

5. All other conditions of CTE Amendment vide letter no: GPCB/BRCH-B-CCA-70-A (3)/ ID-41279/440829 dated 06/01/2018 & CTE Amendment issued vide letter no: GPCB/BRCH-B-CCA-70-A (3)/ ID-41279/408786 dated 03/04/2017 & subsequent amendments shall remain unchanged.

Outward No: 478307/2018

6. Unit shall abide all the conditions of the CCA order no: AWH-62511 dated 07/07/2014.

For and on behalf of
Gujarat Pollution Control Board


(A. V. SHAH)

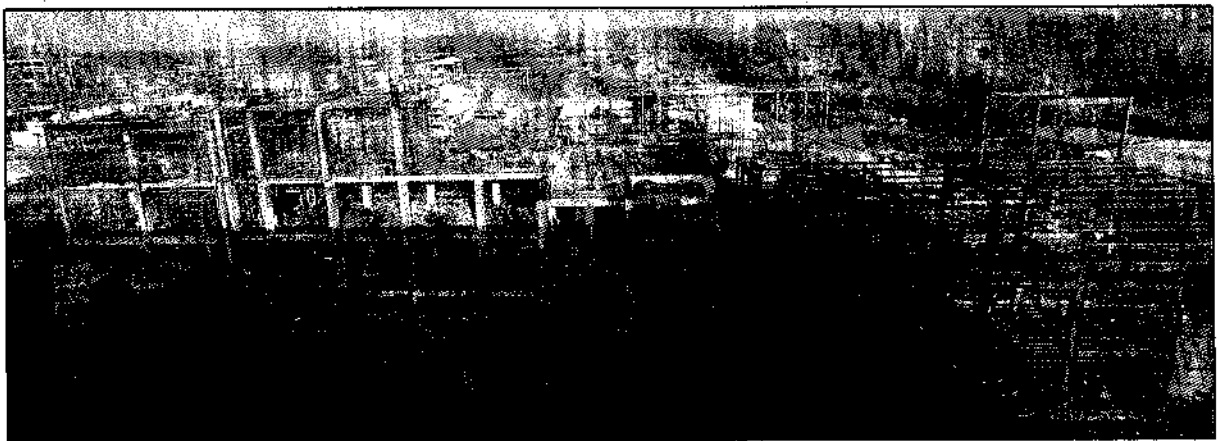
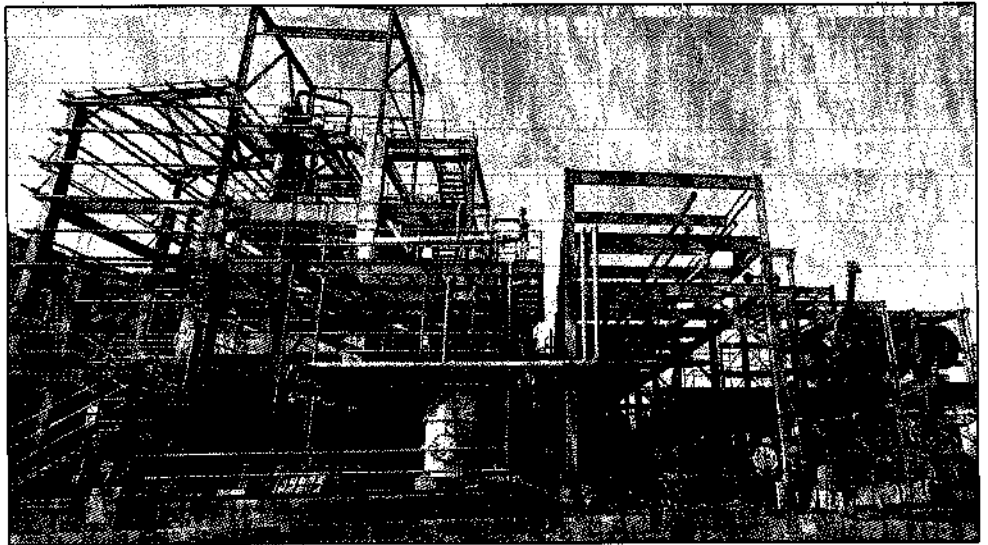
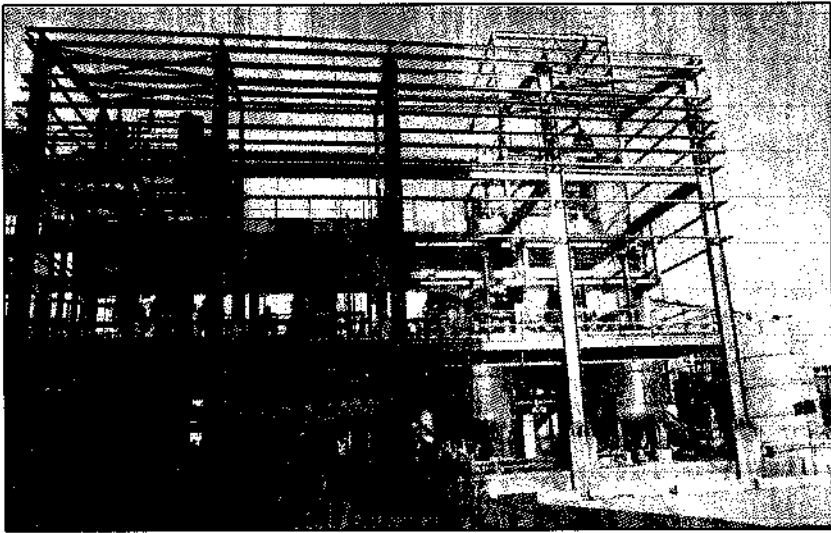
Senior Environmental Engineer

Outward No: 478307, 10/12/2018

Annexure-9

Photograph of CMS Project Construction Work





ANNEXURE-10

COPY OF ENGLISH & GUJARATI NEWS PAPER ADVERTISEMENT OF EC 2014

**PUBLIC NOTICE
ENVIRONMENTAL CLEARANCE**

It is hereby informed 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/5(f)/90/2014 dated 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,
Gujarat

**જાહેર નિવેદન
પર્યાવરણ મંજૂરી**

આ સાથે જણાવવામાં આવે છે કે 'સ્ટેટ લેવલ એન્વિરોમેન્ટ ઇમ્પ્રોવમેન્ટ ઓથોરિટી' પર્યાવરણ ભવન સેક્ટર ૧૦-અ ગાંધીનગર- ૩૮૨ ૦૧૦, ગુજરાત દ્વારા તેઓના પત્ર ક્રમાંક SEIAA/GUJ/EC/5(f)/૮૦/૨૦૧૪ તારીખ ૦૧/૦૮/૨૦૧૪ ના રોજ મેસર્સ ગ્રાસીમ સેલ્યુલોઝિક (યુનિટ ઓફ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ) ના પ્લોટ નં. ૧, જી.આઇ.ડી.સી., ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાપત, 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 ઇન્ડસ્ટ્રીઝ લિમિટેડ

પ્લોટ નં.૧, જી.આઇ.ડી.સી., ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાપત, જી.ભરુચ, ગુજરાત

ANNEXURE-11

**COPY OF EC VIDE LETTER NO. SE/AA/GUJ/EC/5(F) & 4(D)/642/2016 DATED 29TH OCT
2016**



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

Date 29 OCT 2016 By R P A D

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/IND2/12124/2016 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.

MEMBER SECRETARY
State Level Environment

Impact Assessment Authority
(SEIAA/Gujarat)

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

Office: Gujarat Pollution Control Board, "Paryavaran Bhawan" Sector-10 A, Gandhinagar-382010
Phone No.: (079) 232-32152, 232-41514 Fax No.: (079) 232-22784
E-mail: msseiaa@seiaa.gujarat.gov.in, Website: www.seiaa.gujarat.gov.in

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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State Level Environment
Impact Assessment Authority
(SEIAA, Gujarat)

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

Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010
Phone No.:- (079) 232-32152, 232-41514, Fax No.:- (079) 232-22784
E-mail : msseiaagi@gmail.com, Website:- www.seiaa.gujarat.gov.in

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 report.
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 conform 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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(SEIAA) Gujarat
Gujarat Pollution Control Board,
"Paryavaran Bhawan"
Sector-10-A, Gandhinagar-10

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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,
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- 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.

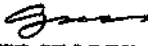
With regards,
Yours sincerely,


(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

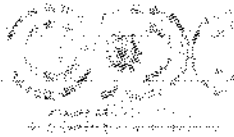

MEMBER SECRETARY
State Level Environment
Impact Assessment Authority
(SEIAA Gujarat)
Gujarat Pollution Control Board,
"Paryavaran Bhavan"
Sector-10-A, Gandhinagar-10


(G. J. DAVE)
Member Secretary

Office : Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010
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ANNEXURE-12
COPY OF GIDC WATER AGREEMENT LETTER

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/1238

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 charge to GIDC for additional quantity i.e. 19.40 MLD (-) 12.48 MLD i.e. for 7.92 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 15.60 MLD to 25.00 MLD is approved in principle. 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



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,


(B C Warli)

Chief Engineer,
GIDC, Gandhinagar.

ANNEXURE-13
TREATED EFFLUENT ANALYSIS REPORTS

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (12 Gt.2020 to17.03.2023)

QC-NABET Accredited BA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT

Report No.	URC /20/06/GIL-0752	Date Of Report	30/06/2020
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)		
Sample Details	ETP Outlet Water Sample	Sample Qty.	10 Lit.
Sampling Date	24/06/2020	Sample Received Date	25/06/2020
Sampled By	Party.	Appearance Of Sample	Light Yellow
Test Started Date	25/06/2020	Test Completion Date	29/06/2020
UERL Lab Sample ID.No. 20/06/GIL-0752			

TEST RESULTS

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment	
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Results
PHYSICAL QUALITY				
1.	pH @ 25 ° C	IS 3025(Part 11)1983, (APHA 23rd Ed.,2017,4500-H*B)	6.0 – 9.0	7.31
2.	Total Suspended Solids(mg/L)	IS 3025(Part 17)1984,Amd.1	100	24
CHEMICAL QUALITY (In mg/L)				
1.	Oil & Grease	IS 3025(Part39)1991, Amd. 2	10	BDL(MDL:2.0)
2.	Fluoride	(APHA 23rd Ed.,2017,4500 F,D)	15	1.3
3.	Sulphide	(APHA 23rd Ed.,2017,4500 S ² F)	5	1.2
4.	TKN	(APHA 23rd Ed.,2017,4500 NORG, B.)	100	22.7
5.	Ammonical Nitrogen	IS 3025(Part 34)1988,	50	15.5
6.	Copper	IS 3025(Part 42)1992amd.01,	3	BDL(MDL:0.05)
7.	Zinc	IS 3025(Part 49)1994	15	1.599
8.	BOD (3 days at 27 °C)	IS 3025(Part 44)1993Amd.01	100	34
9.	COD	IS 3025(Part 58)2006	250	118.6
10.	Arsenic	APHA 23rd Ed.,2017,3114-C	0.2	BDL(MDL:0.01)
11.	Mercury	(APHA 23rd Ed.,2017,3112-B)	0.01	BDL(MDL:0.001)
12.	Lead	IS 3025(Part 47)1994Amd.02	0.1	BDL(MDL:0.01)
13.	Cadmium	IS 3025(Part 41)1992,	0.05	0.032
14.	Hexavalent Chromium	APHA 23rd Ed.,2017,3500CrB	0.1	BDL(MDL:0.05)
15.	Trivalent Chromium	IS 3025(Part 52)2003,	2	0.051
16.	Nickel	IS 3025(Part 54)2003,	3	0.192
17.	Cyanide	IS 3025(Part27)1986	0.2	BDL(MDL:0.05)
18.	Phenolic Compound	IS 3025(Part 43)1992Amd.02	5	0.65
19.	Iron	IS 3025(Part 53)2003,	3	1.326
20.	Nitrate Nitrogen	(APHA 23rd Ed.,2017,4500 NO3-B)	50	8.6

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit

***** End of Report *****

Tested By,
Jesai
(J.P.D.)
(Chemist)

Checked By
[Signature]
N.C.P.
(Sr. Chemist)

Authorized By
Tolander
(N.B.T.)
(Technical Manager)

TEST REPORT

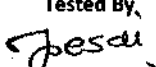
Report No.	URC /20/06/GIL-0752	Date Of Report	30/06/2020
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)		
Sample Details	ETP Outlet Water Sample	Sample Qty.	10 Lit.
Sampling Date	24/06/2020	Sample Received Date	25/06/2020
Sampled By	Party.	Appearance Of Sample	Light Yellow
Test Started Date	25/06/2020	Test Completion Date	29/06/2020
UERL Lab Sample ID.No. 20/06/GIL-0752			

TEST RESULTS

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment	
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Results
PHYSICAL QUALITY				
1.	Temperature °C	IS 3025(Part 9)1984	45	31
CHEMICAL QUALITY (In mg/L)				
1.	Total Residual Chlorine	IS 3025(Part 26)1986,	1	BDL(MDL:0.2)
2.	Selenium	IS 3025(Part 56)2003	0.05	BDL(MDL:0.1)
3.	Manganese	APHA 23rd Ed.,2017,3500 Mn B	2	BDL(MDL:0.1)
4.	Vanadium	AAS Method	0.2	BDL(MDL:0.1)
5.	Bio Assay test (%)	IS:6582-1971	90 % survival of fish after 96 hrs.	90 % survival of fish after 96 hrs.

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit

***** End of Report *****

Tested By,

(J.P.D.)
(Chemist)

Checked By

(N.C.P.)
(Sr. Chemist)

Authorized By

(N.B.T.)
(Technical Manager)

TEST REPORT

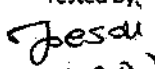
Report No.	URC /20/07/0088	Date Of Report	07/07/2020
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)		
Sample Details	ETP Outlet Water Sample	Sample Qty.	10 Lit.
Sampling Date	02/07/2020	Sample Received Date	03/07/2020
Sampled By	Party.	Appearance Of Sample	Colourless
Test Started Date	03/07/2020	Test Completion Date	06/07/2020
UERL Lab Sample ID.No. 20/07/0088			

TEST RESULTS

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment	
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Results
PHYSICAL QUALITY				
1.	pH @ 25 ° C	IS 3025(Part 11)1983, (APHA 23rd Ed.,2017,4500-H*B)	6.0 – 9.0	7.41
2.	Total Suspended Solids(mg/L)	IS 3025(Part 17)1984,Amd.1	100	40
CHEMICAL QUALITY (In mg/L)				
1.	Oil & Grease	IS 3025(Part39)1991, Amd. 2	10	BDL(MDL:2.0)
2.	Fluoride	(APHA 23rd Ed.,2017,4500 F,D)	15	1.74
3.	Sulphide	(APHA 23rd Ed.,2017,4500 S ² F)	5	BDL(MDL:0.05)
4.	TKN	(APHA 23rd Ed.,2017,4500 NORG, B,)	100	32.1
5.	Ammonical Nitrogen	IS 3025(Part 34)1988,	50	26.1
6.	Copper	IS 3025(Part 42)1992amd.01,	3	0.241
7.	Zinc	IS 3025(Part 49)1994	15	0.338
8.	BOD (3 days at 27 °C)	IS 3025(Part 44)1993Amd.01	100	62.0
9.	COD	IS 3025(Part 58)2006	250	187.6
10.	Arsenic	APHA 23rd Ed.,2017,3114-C	0.2	BDL(MDL:0.01)
11.	Mercury	(APHA 23rd Ed.,2017,3112-B)	0.01	BDL(MDL:0.001)
12.	Lead	IS 3025(Part 47)1994Amd.02	0.1	BDL(MDL:0.01)
13.	Cadmium	IS 3025(Part 41)1992,	0.05	BDL(MDL:0.05)
14.	Hexavalent Chromium	APHA 23rd Ed.,2017,3500CrB	0.1	0.059
15.	Trivalent Chromium	IS 3025(Part 52)2003,	2	0.464
16.	Nickel	IS 3025(Part 54)2003,	3	0.155
17.	Cyanide	IS 3025(Part27)1986	0.2	BDL(MDL:0.05)
18.	Phenolic Compound	IS 3025(Part 43)1992Amd.02	5	0.77
19.	Iron	IS 3025(Part 53)2003,	3	2.139
20.	Nitrate Nitrogen	(APHA 23rd Ed.,2017,4500 NO3-B)	50	4.8

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit

***** End of Report *****

Tested By,

(J.P.D.)
(Chemist)

Checked By

(N. S. P.)
(Sr. Chemist)

Authorized By

(N.B.T.)
(Technical Manager)

TEST REPORT

Report No.	URC /20/07/0088	Date Of Report	07/07/2020
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin - 392012(India)		
Sample Details	ETP Outlet Water Sample	Sample Qty.	10 Lit.
Sampling Date	02/07/2020	Sample Received Date	03/07/2020
Sampled By	Party.	Appearance Of Sample	Colourless
Test Started Date	03/07/2020	Test Completion Date	06/07/2020

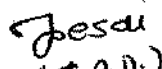
UERL Lab Sample ID.No. 20/07/0088

TEST RESULTS

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment	
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Results
PHYSICAL QUALITY				
1.	*Temperature °C	IS 3025(Part 9)1984	45	29
CHEMICAL QUALITY (In mg/L)				
1.	*Total Residual Chlorine	IS 3025(Part 26)1986,	1	BDL(MDL:0.2)
2.	*Selenium	IS 3025(Part 56)2003	0.05	BDL(MDL:0.1)
3.	*Manganese	APHA 23rd Ed.,2017,3500 Mn B	2	BDL(MDL:0.1)
4.	*Vanadium	AAS Method	0.2	BDL(MDL:0.1)
5.	*Bio Assay test (%)	IS:6582-1971	90 % survival of fish after 96 hrs.	90 % survival of fish after 96 hrs.

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit

***** End of Report *****

Tested By,

(J.P.D.)
(Chemist)

Checked By

(Sr. Chemist)

Authorized By

(N.B.T.)
(Technical Manager)

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (12.01.2020 to 03.2023)

QCINABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT

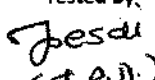
Report No.	URC /20/08/GIL-0096	Date Of Report	14/08/2020
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin - 392012(India).		
Sample Details	ETP Outlet Water Sample	Sample Qty.	10 Lit.
Sampling Date	07/08/2020	Sample Received Date	08/08/2020
Sampled By	Party.	Appearance Of Sample	Light Yellow
Test Started Date	08/08/2020	Test Completion Date	11/08/2020
UERL Lab Sample ID.No. 20/08/GIL-0096			

TEST RESULTS

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment	
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Results
PHYSICAL QUALITY				
1.	pH @ 25 °C	(APHA 23rd Ed.,2017,4500-H ⁺ B)	6.0 – 9.0	7.42
2.	Total Suspended Solids(mg/L)	IS 3025(Part 17)1984,Amd.1	100	16
CHEMICAL QUALITY (In mg/L)				
1.	Oil & Grease	IS 3025(Part39)1991, Amd. 2	10	BDL(MDL:2.0)
2.	Fluoride	(APHA 23rd Ed.,2017,4500 F,D)	15	1.1
3.	Sulphide	(APHA 23rd Ed.,2017,4500 S ² F)	5	1.4
4.	TKN	(APHA 23rd Ed.,2017,4500 NORG, B,)	100	21.4
5.	Ammonical Nitrogen	IS 3025(Part 34)1988,	50	14.1
6.	Copper	IS 3025(Part 42)1992Amd.01,	3	BDL(MDL:0.05)
7.	Zinc	IS 3025(Part 49)1994	15	1.308
8.	BOD (3 days at 27 °C)	IS 3025(Part 44)1993Amd.01	100	38
9.	COD	IS 3025(Part 58)2006	250	132.6
10.	Arsenic	APHA 23rd Ed.,2017,3114-C	0.2	BDL(MDL:0.01)
11.	Mercury	(APHA 23rd Ed.,2017,3112-B)	0.01	BDL(MDL:0.001)
12.	Lead	IS 3025(Part 47)1994Amd.02	0.1	BDL(MDL:0.01)
13.	Cadmium	IS 3025(Part 41)1992,	0.05	0.026
14.	Hexavalent Chromium	APHA 23rd Ed.,2017,3500CrB	0.1	BDL(MDL:0.05)
15.	Trivalent Chromium	IS 3025(Part 52)2003,	2	BDL(MDL:0.05)
16.	Nickel	IS 3025(Part 54)2003,	3	0.142
17.	Cyanide	IS 3025(Part27)1986	0.2	BDL(MDL:0.05)
18.	Phenolic Compound	IS 3025(Part 43)1992Amd.02	5	0.37
19.	Iron	IS 3025(Part 53)2003,	3	1.241
20.	Nitrate Nitrogen	(APHA 23rd Ed.,2017,4500 NO3-B)	50	7.1

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit.

***** End of Report *****

Tested By,

(J.P.D.)
(Chemist)

Checked By

(N.C.P.)
(Sr. Chemist)

Authorized By

(M.B.T.)
(Technical Manager)

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (12.01.2020 to 12.03.2023)

QC/NABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT

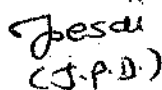
Report No.	URC /20/08/GIL-0096	Date Of Report	14/08/2020
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin - 392012(India)		
Sample Details	ETP Outlet Water Sample	Sample Qty.	10 Lit.
Sampling Date	07/08/2020	Sample Received Date	08/08/2020
Sampled By	Party.	Appearance Of Sample	Light Yellow
Test Started Date	08/08/2020	Test Completion Date	12/08/2020
UERL Lab Sample ID.No. 20/08/GIL-0096			

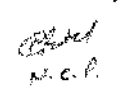
TEST RESULTS

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment	
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Results
PHYSICAL QUALITY				
1.	Temperature °C	IS 3025(Part 9)1984	45	30
CHEMICAL QUALITY (In mg/L)				
1.	Total Residual Chlorine	IS 3025(Part 26)1986,	1	BDL(MDL:0.2)
2.	Selenium	IS 3025(Part 56)2003	0.05	BDL(MDL:0.1)
3.	Manganese	APHA 23rd Ed.,2017,3500 Mn B	2	BDL(MDL:0.1)
4.	Vanadium	AAS Method	0.2	BDL(MDL:0.1)
5.	Bio Assay test (%)	IS:6582-1971	90 % survival of fish after 96 hrs.	90 % survival of fish after 96 hrs.

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit

***** End of Report *****

Tested By,

(J.P.D.)
(Chemist)
Tested By

Checked By

(N.C.P.)
(Sr. Chemist)
Checked By

Authorized By

(N.B.T.)
(Technical Manager)
Authorized By

TEST REPORT

Report No.	URC /20/09/0207		
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)	Date Of Report	10/09/2020
		Customer's Ref.	--
Sample Details	ETP Outlet Water Sample	Location	--
Sample Qty.	10 Lit.	Appearance	Colourless
Sampling Date	05/09/2020	Sample Received Date	08/09/2020
Test Started Date	08/09/2020	Test Completion Date	13/09/2020
Sampled By	Party.	Sampling Method	--
UERL Lab ID.No.	20/09/0207		

TEST RESULTS:

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment		
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Unit of Measurement	Results
PHYSIO-CHEMICAL PARAMETERS					
1.	Temperature	IS 3025(Part 9)1984	45	°C	29
GENERAL CHEMICAL PARAMETERS					
1.	Total Residual Chlorine	IS 3025(Part 26)1986,	1	mg/L	BDL(MDL:0.2)
2.	Selenium	IS 3025(Part 56)2003	0.05	mg/L	BDL(MDL:0.1)
3.	Manganese	APHA 23rd Ed.,2017,3500 Mn B	2	mg/L	BDL(MDL:0.1)
4.	Vanadium	AAS Method	0.2	mg/L	BDL(MDL:0.1)
5.	Bio Assay test	IS:6582-1971	90 % survival of fish after 96 hrs.	%	90 % survival of fish after 96 hrs.

Note: BDL=Below Detection Limit, MDL= Minimum Detection Limit

***** End of Report *****

Checked By

N.C.P.
Nilesh C. Patel
(Sr. Chemist)

Authorized By

N.B.T.
(Nitin B. Tandel)
(Technical Manager)

Page 1 of 1

Note: This report is subject to terms and conditions mentioned overleaf.

TEST REPORT

ULR No.	TC77532000008119F	Report No.	URC /20/09/0207
Name & Address of Customer	M/s. GRASIM INDUSTRIES Ltd. Plot No. 1, GIDC, Vilayat Industrial Estate, Dist. Bharuch, Gujarat, Pin – 392012(India)	Date Of Report	10/09/2020
		Customer's Ref.	--
Sample Details	ETP Outlet Water Sample	Location	--
Sample Qty.	10 Lit.	Appearance	Colourless
Sampling Date	05/09/2020	Sample Received Date	08/09/2020
Test Started Date	08/09/2020	Test Completion Date	13/09/2020
Sampled By	Party.	Sampling Method	--
UERL Lab ID.No.	20/09/0207		

TEST RESULTS:

DISCIPLINE : Chemical Testing			NAME OF GROUP: Pollution & Environment		
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (GPCB)	Unit of Measurement	Results
PHYSIO-CHEMICAL PARAMETERS					
1.	pH @ 25 °C	(APHA 23rd Ed.,2017,4500-H ⁺ B)	6.0 – 9.0	--	7.15
2.	Total Suspended Solids	IS 3025(Part 17)1984,Amd.1	100	mg/L	14
GENERAL CHEMICAL PARAMETERS					
1.	Oil & Grease	IS 3025(Part 39)1991, Amd. 2	10	mg/L	BDL(MDL:2.0)
2.	Fluoride	(APHA 23rd Ed.,2017,4500 F,D)	15	mg/L	5.4
3.	Sulphide	(APHA 23rd Ed.,2017,4500 S ²⁻ F)	5	mg/L	BDL(MDL:0.05)
4.	TKN	(APHA 23rd Ed.,2017,4500 NORG, B,)	100	mg/L	18.1
5.	Ammonical Nitrogen	IS 3025(Part 34)1988,	50	mg/L	12.3
6.	Copper	IS 3025(Part 42)1992Amd.01,	3	mg/L	BDL(MDL:0.05)
7.	Zinc	IS 3025(Part 49)1994	15	mg/L	0.082
8.	BOD (3 days at 27 °C)	IS 3025(Part 44)1993Amd.01	100	mg/L	30
9.	COD	IS 3025(Part 58)2006	250	mg/L	96.2
10.	Arsenic	APHA 23rd Ed.,2017,3114-C	0.2	mg/L	BDL(MDL:0.01)
11.	Mercury	(APHA 23rd Ed.,2017,3112-B)	0.01	mg/L	BDL(MDL:0.001)
12.	Lead	IS 3025(Part 47)1994Amd.02	0.1	mg/L	BDL(MDL:0.01)
13.	Cadmium	IS 3025(Part 41)1992,	0.05	mg/L	0.004
14.	Hexavalent Chromium	APHA 23rd Ed.,2017,3500CrB	0.1	mg/L	BDL(MDL:0.05)
15.	Trivalent Chromium	IS 3025(Part 52)2003,	2	mg/L	BDL(MDL:0.05)
16.	Nickel	IS 3025(Part 54)2003,	3	mg/L	0.045
17.	Cyanide	IS 3025(Part 27)1986	0.2	mg/L	BDL(MDL:0.05)
18.	Phenolic Compound	IS 3025(Part 43)1992Amd.02	5	mg/L	BDL(MDL:0.01)
19.	Iron	IS 3025(Part 53)2003,	3	mg/L	BDL(MDL:0.1)
20.	Nitrate Nitrogen	(APHA 23rd Ed.,2017,4500 NO3-B)	50	mg/L	4.7
Remarks: BDL= Below Detection Limit, MDL = Minimum Detection Limit,					
Opinion & Interpretation (If required):					

***** End of Report *****

Checked By

N.C.P.

Nilesh C. Patel
(Sr. Chemist)

Authorized By

N.B.T.

(Nitin B. Tandel)
(Technical Manager)

ANNEXURE-14
DOMESTIC WASTEWATER ANALYSIS REPORTS

Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Gimar Khushbu Plaza, Opp. Vishal Mall,

Aditya Birla Circle, VIA Road, GIDC. Vapi – 396 195. Gujarat. India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com , sejalmapatel145@gmail.com



ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

TEST REPORT

Sample ID. No. (LAB)	AE/Lab-B/08/20/098	Issue Date	18/08/2020
Customer's Name & Address	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION PLOT NO. 1, GIDC, VILAYAT-392012 TAL: VAGRA, DIST: BHARUCH		

Description of Sample	STP Outlet	Qty./No. of Samples	1 Lit.
Sampling Date	10/08/2020	Sample Received Date	11/08/2020
Date of Starting of Test	11/08/2020	Date of Completion of Test	17/08/2020
Appearance of Sample	Colourless Turbid Liquid	Sampling Procedure	Grab

RESULT TABLE

Sr. No.	Parameters	Test Method Permissible	Results	Standard Limit (GPCB)
Chemical Quality (In mg/l)				
1	Biochemical Oxygen Demand	IS 3025 : Part 44 : 1993 (RA : 2019)	16.38	NMT 20
2	Total Suspended Solid	IS 3025 : Part 16 : 1984 (RA : 2017)	14.00	NMT 30
3	Residual Free Chlorine	IS 3025 : Part 26 : 1986 (RA : 2019)	1.06	MIN 0.5

BDL: Below Detection Limit

End of Report



Authorized By

(Technical Manager)

Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite. Ahmedabad – 380 015

Contact: +91 99250 44987, 079 – 26760070

Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Girnar Khushbu Plaza, Opp. Vishal Mall,
Aditya Birla Circle, VIA Road, GIDC, Vapi – 396 195, Gujarat, India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com, sejalmapatel145@gmail.com



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Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule -II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

TEST REPORT

Sample ID. No. (LAB)	AE/Lab/09/20/159	Issue Date	
Customer's Name & Address	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION PLOT NO. 1, GIDC, VILAYAT-392012 TAL: VAGRA, DIST: BHARUCH		

Description of Sample	STP Outlet	Qty./No. of Samples	500 ml
Sampling Date	09/09/2020	Sample Received Date	09/09/2020
Date of Starting of Test	11/09/2020	Date of Completion of Test	16/09/2020
Appearance of Sample	Colourless Turbid Liquid	Sampling Procedure	Grab

RESULT TABLE

Sr. No.	Parameters	Test Method Permissible	Results	Standard Limit (GPCB)
Chemical Quality (In mg/l)				
1	Biochemical Oxygen Demand	IS 3025 : Part 44 : 1993 (RA : 2019)	15.66	NMT 20
2	Total Suspended Solids	IS 3025 : Part 16 : 1984 (RA : 2017)	12.00	NMT 30
3	Residual Free Chlorine	IS 3025 : Part 26 : 1986 (RA : 2019)	1.23	MIN 0.5

BDL: Below Detection Limit

End of Report



Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad – 380 015

Contact: +91 99250 44987, 079 – 26760070

ANNEXURE-15

**ADEQUACY OF ETP, STP & AIR POLLUTION CONTROL SYSTEM BY THIRD PARTY
EVALUATION**

ANNEXURE-16
PROCESS STACK MONITORING REPORTS

Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Girnar Khushbu Plaza, Opp. Vishal Mall,
Aditya Birla Circle, VIA Road, GIDC, Vapi – 396 195, Gujarat, India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com, sejalmapatel145@gmail.com



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Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/90	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020
Service Request form No.	AE/AIR-B/SRF/20/08/90		
Sample ID No.	AE/AIR-B/ID/20/08/90		
Instrument Name	Stack Monitoring Kit		
Model	VES 5, VVS 5		
Sr. No.	2E5P21, 2E5P29		

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Sodium Hypo Stack-1 (Caustic Plant)	
2	Fuel Used	--	
3	Air Pollution Control Device	Alkali Scrubber	
4	Stack Height	35	m
5	Stack Area	0.292	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	Cl ₂	mg/Nm ³	0.56	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



Authorized By

(Technical Manager)

Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Gimar Khushbu Plaza, Opp. Vishal Mall,

Aditya Birla Circle, VIA Road, GIDC, Vapi – 396 195, Gujarat, India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com, sejalmapatel145@gmail.com



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Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/98	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No. AE/AIR-B/SRF/20/08/98

Sample ID No. AE/AIR-B/ID/20/08/98

Instrument Name Stack Monitoring Kit

Model VES 5, VVS 5

Sr. No. 2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Sodium Hypo Stack-2 (Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Alkali Scrubber	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	Cl ₂	mg/Nm ³	0.48	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.

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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/91	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020
Service Request form No.	AE/AIR-B/SRF/20/08/91		
Sample ID No.	AE/AIR-B/ID/20/08/91		
Instrument Name	Stack Monitoring Kit		
Model	VES 5, VVS 5		
Sr. No.	2E5P21, 2E5P29		

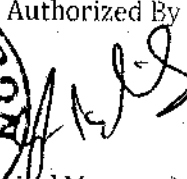
➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCL Stack-1 (Caustic Plant)	
2	Fuel Used	---	
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCL	mg/Nm ³	3.96	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.

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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/92	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/92
Sample ID No.	AE/AIR-B/ID/20/08/92
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCL Stack-2 (Caustic Plant)	
2	Fuel Used	--	
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCL	mg/Nm ³	4.12	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/99	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020
Service Request form No.	AE/AIR-B/SRF/20/08/99		
Sample ID No.	AE/AIR-B/ID/20/08/99		
Instrument Name	Stack Monitoring Kit		
Model	VES 5, VVS 5		
Sr. No.	2E5P21, 2E5P29		

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCI Stack-3(Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCI	mg/Nm ³	4.06	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.

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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/102	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/102
Sample ID No.	AE/AIR-B/ID/20/08/102
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

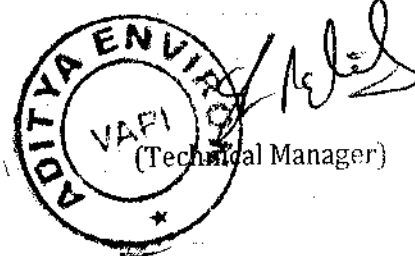
Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCI Stack- 4 (Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCI	mg/Nm ³	3.24	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.

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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/100	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/100
Sample ID No.	AE/AIR-B/ID/20/08/100
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Poly Aluminum Chloride Powder Plant-1	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	5.09	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.55	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/101	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/101
Sample ID No.	AE/AIR-B/ID/20/08/101
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Poly Aluminum Chloride Powder Plant- 2	
2	Fuel Used		
3	Air Pollution Control Device	3 stage water scrubber	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	4.56	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.39	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/93	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020
Service Request form No.	AE/AIR-B/SRF/20/08/93		
Sample ID No.	AE/AIR-B/ID/20/08/93		
Instrument Name	Stack Monitoring Kit		
Model	VES 5, VVS 5		
Sr. No.	2E5P21, 2E5P29		

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Poly Aluminum Chloride Liquid	
2	Fuel Used	--	
3	Air Pollution Control Device	Water Scrubber system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	5.23	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.63	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/94	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020
Service Request form No.	AE/AIR-B/SRF/20/08/94		
Sample ID No.	AE/AIR-B/ID/20/08/94		
Instrument Name	Stack Monitoring Kit		
Model	VES 5, VVS 5		
Sr. No.	2E5P21, 2E5P29		

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Chlorinated Paraffin Plant	
2	Fuel Used	--	
3	Air Pollution Control Device	Alkali Scrubbing System	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	4.86	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.46	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/95	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/95
Sample ID No.	AE/AIR-B/ID/20/08/95
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Aluminum Chloride Plant	
2	Fuel Used		
3	Air Pollution Control Device	Alkali Scrubbing System	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	5.06	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.74	9	AEWP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/96	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/96
Sample ID No.	AE/AIR-B/ID/20/08/96
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Stable Bleaching Powder Plant	
2	Fuel Used		
3	Air Pollution Control Device	Alkali Scrubbing System	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	3.52	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.68	9	AE/WP/AIR/19

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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR-B/20/08/97	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	11/08/2020	Date of Testing	12/08/2020

Service Request form No.	AE/AIR-B/SRF/20/08/97
Sample ID No.	AE/AIR-B/ID/20/08/97
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Phosphoric Acid Plant	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber	
4	Stack Height	35	m
5	Stack Area	0.292	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	2.69	20	USEPA 0050
2	HF	mg/Nm ³	0.69	6	

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR/20/09/132	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/132
Sample ID No.	AE/AIR/ID/20/09/132
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

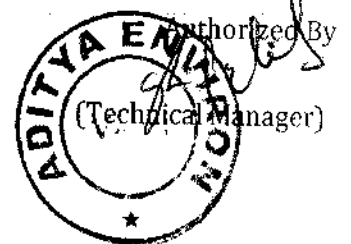
➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Sodium Hypo Stack-1 (Caustic Plant)	
2	Fuel Used	--	
3	Air Pollution Control Device	Alkali Scrubber	
4	Stack Height	35	m
5	Stack Area	0.292	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	Cl ₂	mg/Nm ³	0.62	9	AE/WP/AIR/19

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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/140	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/140
Sample ID No.	AE/AIR/ID/20/09/140
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Sodium Hypo Stack-2 (Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Alkali Scrubber	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	Cl ₂	mg/Nm ³	0.48	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR/20/09/133	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/133
Sample ID No.	AE/AIR/ID/20/09/133
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCL Stack-1 (Caustic Plant)	
2	Fuel Used	--	
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCL	mg/Nm ³	4.42	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/134	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/134
Sample ID No.	AE/AIR/ID/20/06/134
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCL Stack-2 (Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCL	mg/Nm ³	5.12	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.

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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR/20/09/141	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/141
Sample ID No.	AE/AIR/ID/20/09/141
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCI Stack-3(Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCI	mg/Nm ³	5.22	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/144	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/144
Sample ID No.	AE/AIR/ID/20/09/144
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	HCI Stack-4(Caustic Plant)	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber having bubble cap tray absorption system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCI	mg/Nm ³	4.21	35	USEPA 0050

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR/20/09/142	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/142
Sample ID No.	AE/AIR/ID/20/09/142
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Poly Aluminum Chloride Powder Plant-1	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	4.39	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.66	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/143	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/143
Sample ID No.	AE/AIR/ID/20/09/143
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Poly Aluminum Chloride Powder Plant-2	
2	Fuel Used		
3	Air Pollution Control Device	3 stage water scrubber	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	5.33	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.40	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/135	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/135
Sample ID No.	AE/AIR/ID/20/09/135
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Poly Aluminum Chloride Liquid	
2	Fuel Used	--	
3	Air Pollution Control Device	Water Scrubber system	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	3.22	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.52	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/136	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/136
Sample ID No.	AE/AIR/ID/20/09/136
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Chlorinated Paraffin Plant	
2	Fuel Used	--	
3	Air Pollution Control Device	Alkali Scrubbing System	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	4.32	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.42	9	AE/WP/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/137	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/137
Sample ID No.	AE/AIR/ID/20/09/137
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Aluminum Chloride Plant	
2	Fuel Used		
3	Air Pollution Control Device	Alkali Scrubbing System	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	3.96	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.44	9	AE/WPI/AIR/19

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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TEST REPORT (STACK MONITORING)

Test Report No.	AE/AIR/20/09/138	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/138
Sample ID No.	AE/AIR/ID/20/09/138
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Stable Bleaching Powder Plant	
2	Fuel Used		
3	Air Pollution Control Device	Alkali Scrubbing System	
4	Stack Height	35	m
5	Stack Area	0.073	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	4.12	20	USEPA 0050
2	Cl ₂	mg/Nm ³	0.63	9	AE/WP/AIR/19

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TEST REPORT

(STACK MONITORING)

Test Report No.	AE/AIR/20/09/139	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/09/2020	Date of Testing	11/09/2020

Service Request form No.	AE/AIR/SRF/20/09/139
Sample ID No.	AE/AIR/ID/20/09/139
Instrument Name	Stack Monitoring Kit
Model	VES 5, VVS 5
Sr. No.	2E5P21, 2E5P29

➤ General Stack Monitoring Observation

Sr. No.	Description	Observation	Unit of measurement
1	Location of Sampling	Phosphoric Acid Plant	
2	Fuel Used		
3	Air Pollution Control Device	Water Scrubber	
4	Stack Height	35	m
5	Stack Area	0.292	m ²

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	GPCB Limit	Method of Test
1	HCl	mg/Nm ³	4.12	20	USEPA 0050
2	HF	mg/Nm ³	0.12	6	CPCB MANUAL

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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ANNEXURE-17
WORK PLACE MONITORING REPORTS

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FORM NO. 37

ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
(Prescribed under Rule 12-B)
Authorized Environmental Auditor (Schedule II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

Register containing particulars of monitoring of working environment required Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near Chemical Dosing Area
- 3) Sampling Date : 10/08/2020

Particulars of Sampling :

No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near Chemical Dosing Area	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.57 mg/m ³	2.57 mg/m ³
4		HCL			1.12 mg/m ³	1.12 mg/m ³
5		CL2			0.57 mg/m ³	0.57 mg/m ³

TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.



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FORM NO- 37

ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
(Prescribed under Rule 12-B)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

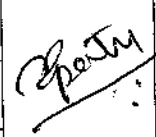
Register containing particulars of monitoring of working environment required

Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near CPW Plant (paraffin Storage Plant)
- 3) Sampling Date : 10/08/2020

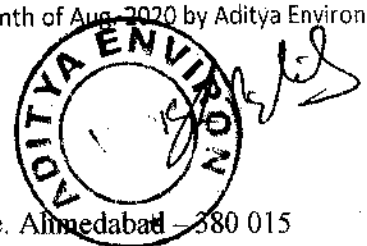
Particulars of Sampling :

No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near CPW Plant (paraffin Storage Plant) Near CA Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.54 mg/m ³	2.54 mg/m ³
4		HCL			1.56 mg/m ³	1.56 mg/m ³
5		CL2			0.60 mg/m ³	0.60 mg/m ³

TWA concentration 'As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS - 5182, Part - II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS - 5182, Part - V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS - 5182, Part - XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D - Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.



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Gujarat Pollution Control Board (Govt. of Gujarat)
(Prescribed under Rule 12-B)
Authorized Environmental Auditor (Schedule II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

Register containing particulars of monitoring of working environment required

Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near ALCP Plant
- 3) Sampling Date : 10/08/2020

Particulars of Sampling :

No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near ALCP Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.42 mg/m3	2.42 mg/m3
4		HCL			1.23 mg/m3	1.23 mg/m3
5		CL2			0.47 mg/m3	0.47 mg/m3

TWA concentration 's given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m3 (TWA)	IS - 5182, Part - II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m3 (TWA)	IS - 5182, Part - V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m3 (TWA)	IS - 5182, Part - XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m3 (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m3 (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D - Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.

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Gujarat Pollution Control Board (Govt. of Gujarat)
(Prescribed under Rule 12-B)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020


Register containing particulars of monitoring of working environment required

Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near PAC Powder Plant
- 3) Sampling Date : 10/08/2020

Particulars of Sampling :

Sr.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near PAC Powder Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.35 mg/m ³	2.35 mg/m ³
4		HCL			1.36 mg/m ³	1.36 mg/m ³
5		CL2			0.37 mg/m ³	0.37 mg/m ³

TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.



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FORM NO. 37

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Gujarat Pollution Control Board (Govt. of Gujarat)
(Prescribed under Rule 12-6)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

Register containing particulars of monitoring of working environment required

Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near SBP Plant
- 3) Sampling Date : 10/08/2020

Particulars of Sampling :

No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near SBP Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.12 mg/m ³	2.12 mg/m ³
4		HCL			1.06 mg/m ³	1.06 mg/m ³
5		CL ₂			0.52 mg/m ³	0.52 mg/m ³

TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.



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FORM NO. 37

ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
(Prescribed under Rule 12-B)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

Register containing particulars of monitoring of working environment required

Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near old PAC Plant
- 3) Sampling Date : 10/08/2020

Particulars of Sampling :

Sr l.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near old PAC Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			1.96 mg/m ³	1.96 mg/m ³
4		HCL			0.96 mg/m ³	0.96 mg/m ³
5		CL2			0.46 mg/m ³	0.46 mg/m ³

TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.



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FORM NO-37

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Gujarat Pollution Control Board (Govt. of Gujarat)
Prescribed under Rule 12-B)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

Register containing particulars of monitoring of working environment required

Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near CA Plant
- 3) Sampling Date : 10/08/2020

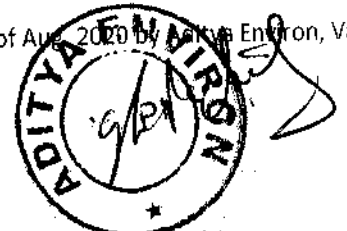
Particulars of Sampling :

No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near CA Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.54 mg/m ³	2.54 mg/m ³
4		HCL			1.63 mg/m ³	1.63 mg/m ³
5		CL ₂			0.35 mg/m ³	0.35 mg/m ³

TWA concentration's given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Aug. 2020 by Aditya Environ, Vapi.



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Authorized Environmental Auditor (Schedule - II)

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Accredited Company valid till 31/12/2020

FORM NO. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required
Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near CA Plant
- 3) Sampling Date : 09/09/2020

Particulars of Sampling :

Sr. No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near CA Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.20 mg/m3	2.20 mg/m3
4		HCL			1.02 mg/m3	1.02 mg/m3
5		CL2			0.42 mg/m3	0.42 mg/m3

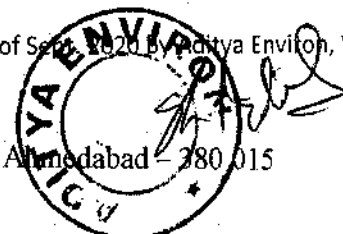
TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (In block letter)
8	9	10	11	12	13
5 mg/m3 (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m3 (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m3 (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m3 (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m3 (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Sept. 2020 by Aditya Environ, Vapi.

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FORM NO. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required
Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near SBP Plant
- 3) Sampling Date : 09/09/2020

Particulars of Sampling :

Sr. No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near SBP Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.41 mg/m3	2.41 mg/m3
4		HCL			1.22 mg/m3	1.22 mg/m3
5		CL2			0.46 mg/m3	0.46 mg/m3

TWA concentration given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m3 (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m3 (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m3 (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m3 (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m3 (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Sept. 2020 by Aditya Environ, Vapi.

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FORM NO. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required
Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near old PAC Plant
- 3) Sampling Date : 09/09/2020

Particulars of Sampling :

Sr. No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near old PAC Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			1.23 mg/m3	1.23 mg/m3
4		HCL			0.98 mg/m3	0.98 mg/m3
5		CL2			0.53 mg/m3	0.53 mg/m3

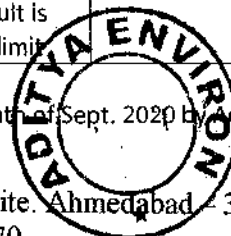
TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m3 (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m3 (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m3 (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m3 (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m3 (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

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FORM NO. 37


(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required
Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near CPW Plant (paraffin Storage Plant)
- 3) Sampling Date : 09/09/2020

Particulars of Sampling :

Sr. No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near CPW Plant (paraffin Storage Plant) Near CA Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			1.86 mg/m ³	1.86 mg/m ³
4		HCL			1.45 mg/m ³	1.45 mg/m ³
5		CL ₂			0.51 mg/m ³	0.51 mg/m ³

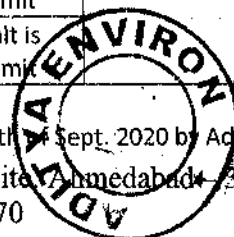
TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m ³ (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m ³ (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m ³ (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m ³ (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m ³ (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Sept. 2020 by Aditya Environ, Vapi.

Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad - 380 015

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FORM NO. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required
Under Section 7-A (2) (e).

- 1) Name of Project : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- 2) Name of Department : Near ALCP Plant
- 3) Sampling Date : 09/09/2020

Particulars of Sampling :

Sr. No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near ALCP Plant	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.53 mg/m3	2.53 mg/m3
4		HCL			1.15 mg/m3	1.15 mg/m3
5		CL2			0.61 mg/m3	0.61 mg/m3

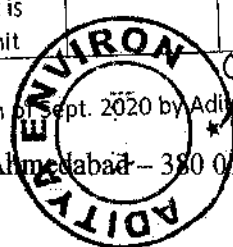
TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m3 (TWA)	IS - 5182, Part - II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATIL
6 mg/m3 (TWA)	IS - 5182, Part - V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m3 (TWA)	IS - 5182, Part - XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m3 (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m3 (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D - Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Sept. 2020 by Aditya Environ, Vapi.

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FORM NO. 37

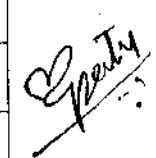
(Prescribed under Rule 12-B)

**Register containing particulars of monitoring of working environment required
Under Section 7-A (2) (e).**

- Name of Project** : M/s. GRASIM INDUSTRIES LTD. - CHEMICAL DIVISION
Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.
- Name of Department** : Near Chemical Dosing Area
- Sampling Date** : 09/09/2020

Particulars of Sampling :

Sr. No.	Location/Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average
				Number of Samples	Range	
1	2	3	4	5	6	7
1	Near Chemical Dosing Area	Sulphur Dioxide	Handy Air Sampler	1	BDL	BDL
2		Nitrogen Dioxide			BDL	BDL
3		Total Dust			2.40 mg/m3	2.40 mg/m3
4		HCL			1.09 mg/m3	1.09 mg/m3
5		CL2			0.49 mg/m3	0.49 mg/m3

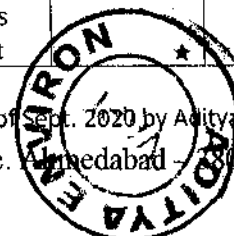
TWA concentration (As given in second schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
5 mg/m3 (TWA)	IS – 5182, Part – II), 2001 (RA 2017)	3-4	The result is within limit		VISHAL PATHI
6 mg/m3 (TWA)	IS – 5182, Part – V & VI), 2006 (RA 2017)	3-4	The result is within limit		
10 mg/m3 (TWA)	IS – 5182, Part – XXIII), 2006 (RA 2017)	3-4	The result is within limit		
7 mg/m3 (TWA)	CPCB Manual	3-4	The result is within limit		
3 mg/m3 (TWA)	IS 5182 (Part 19) RA 2019	3-4	The result is within limit		

*N.D – Not Detected

Work place monitoring done at M/S. Grasim Industries Ltd. - Chemical Division in the Month of Sept. 2020 by Aditya Environ, Vapi.

Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad - 380 015

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ANNEXURE-18

AMBIENT AIR QUALITY MONITORING REPORTS

Aditya Environ

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ANALYSIS REPORT

(AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/08/081	Issue Date	17/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/08/2020	Date of Testing	11/08/2020
Sampling Location	Near PA Plant		

Service Request form No.	AE/AIR/SRF/20/08/081
Sample ID No.	AE/AIR/ID/20/08/081
Instrument Name	Combo Dust Sampler VCDS 401 Sampler for PM _{2.5} , PM ₁₀ & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.20
3	Volume of Air Sampled for PM ₁₀	m ³	1786.96
4	Volume of Air Sampled for PM _{2.5}	m ³	24.04
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	288.56

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	27.56	80	IS – 5182, Part – II), 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	23.22	80	IS – 5182, Part – V & VI), 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	57.85	100	IS – 5182, Part – XXIII), 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	28.63	60	CPCB Manual
5	HCL	µg/m ³	BDL	200	CPCB Manual
6	CL ₂	µg/m ³	BDL	100	IS 5182 (Part 19) RA 2019
7	H ₂ S	µg/m ³	BDL	500	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	60	CPCB Manual
9	HC	µg/m ³	BDL	120	CPCB Manual
10	Ammonia	µg/m ³	BDL	400	CPCB Manual
11	CS ₂	µg/m ³	BDL	2000	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized By
[Signature]
Technical Manager)

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ANALYSIS REPORT

(AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/08/082	Issue Date	17/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/08/2020	Date of Testing	11/08/2020
Sampling Location	Near Marketing Office		

Service Request form No.	AE/AIR/SRF/20/08/082
Sample ID No.	AE/AIR/ID/20/08/082
Instrument Name	Combo Dust Sampler VCDS 401 Sampler for PM2.5, PM10 & Gaseous Pollutants

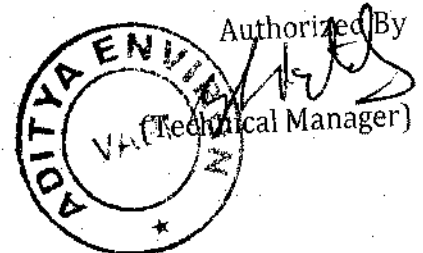
❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.20
3	Volume of Air Sampled for PM ₁₀	m ³	1796.32
4	Volume of Air Sampled for PM _{2.5}	m ³	24.02
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	285.22

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	24.78	80	IS - 5182, Part - II, 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	19.63	80	IS - 5182, Part - V & VI, 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	55.22	100	IS - 5182, Part - XXIII, 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	24.23	60	CPCB Manual
5	HCL	µg/m ³	BDL	200	CPCB Manual
6	CL ₂	µg/m ³	BDL	100	IS 5182 (Part 19) RA 2019
7	H ₂ S	µg/m ³	BDL	500	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	60	CPCB Manual
9	HC	µg/m ³	BDL	120	CPCB Manual
10	Ammonia	µg/m ³	BDL	400	CPCB Manual
11	CS ₂	µg/m ³	BDL	2000	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D.: Not Detectable.



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ANALYSIS REPORT

(AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/08/083	Issue Date	17/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/08/2020	Date of Testing	11/08/2020
Sampling Location	Near PAC-Plant		

Service Request form No.	AE/AIR/SRF/20/08/083
Sample ID No.	AE/AIR/ID/20/08/083
Instrument Name	Combo Dust Sampler VCDS 401 Sampler for PM _{2.5} , PM ₁₀ & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.2
3	Volume of Air Sampled for PM ₁₀	m ³	1785.22
4	Volume of Air Sampled for PM _{2.5}	m ³	24.04
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	286.32

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	20.03	80	IS – 5182, Part – II), 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	18.96	80	IS – 5182, Part – V & VI), 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	57.45	100	IS – 5182, Part – XXIII), 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	24.56	60	CPCB Manual
5	HCL	µg/m ³	BDL	200	CPCB Manual
6	CL ₂	µg/m ³	BDL	100	IS 5182 (Part 19) RA 2019
7	H ₂ S	µg/m ³	BDL	500	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	60	CPCB Manual
9	HC	µg/m ³	BDL	120	CPCB Manual
10	Ammonia	µg/m ³	BDL	400	CPCB Manual
11	CS ₂	µg/m ³	BDL	2000	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized By
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ANALYSIS REPORT

(AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/08/084	Issue Date	17/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	10/08/2020	Date of Testing	11/08/2020
Sampling Location	Near Main Gate 2		

Service Request form No.	AE/AIR/SRF/20/08/084
Sample ID No.	AE/AIR/ID/20/08/084
Instrument Name	Combo Dust Sampler VCDs 401 Sampler for PM _{2.5} , PM ₁₀ & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.20
3	Volume of Air Sampled for PM ₁₀	m ³	1688.96
4	Volume of Air Sampled for PM _{2.5}	m ³	24.00
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	281.22

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	22.12	80	IS - 5182, Part - II, 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	16.33	80	IS - 5182, Part - V & VI, 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	56.39	100	IS - 5182, Part - XXIII, 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	27.55	60	CPCB Manual
5	HCL	µg/m ³	BDL	200	CPCB Manual
6	CL ₂	µg/m ³	BDL	100	IS 5182 (Part 19) RA 2019
7	H ₂ S	µg/m ³	BDL	500	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	60	CPCB Manual
9	HC	µg/m ³	BDL	120	CPCB Manual
10	Ammonia	µg/m ³	BDL	400	CPCB Manual
11	CS ₂	µg/m ³	BDL	2000	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized By

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ANALYSIS REPORT (AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/09/118	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	09/09/2020	Date of Testing	11/09/2020
Sampling Location	Near PA Plant		

Service Request form No.	AE/AIR/SRF/20/09/118
Sample ID No.	AE/AIR/ID/20/09/118
Instrument Name	Combo Dust Sampler VCDS 401 Sampler for PM2.5, PM10 & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.20
3	Volume of Air Sampled for PM ₁₀	m ³	1766.23
4	Volume of Air Sampled for PM _{2.5}	m ³	24.04
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	286.92

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	34.10	80	IS – 5182, Part – II), 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	21.41	80	IS – 5182, Part – V & VI), 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	67.82	100	IS – 5182, Part – XXIII), 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	37.51	60	CPCB Manual
5	HCL	µg/m ³	BDL	--	CPCB Manual
6	CL2	µg/m ³	BDL	--	IS 5182 (Part 19) RA 2019
7	H2S	µg/m ³	BDL	--	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	--	CPCB Manual
9	HC	µg/m ³	BDL	--	CPCB Manual
10	Ammonia	µg/m ³	BDL	--	CPCB Manual
11	CS2	µg/m ³	BDL	--	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized By
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ANALYSIS REPORT

(AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/09/119	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	09/09/2020	Date of Testing	11/09/2020
Sampling Location	Near Marketing Office		

Service Request form No.	AE/AIR/SRF/20/09/119
Sample ID No.	AE/AIR/ID/20/09/119
Instrument Name	Combo Dust Sampler VCD5 401 Sampler for PM2.5, PM10 & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.20
3	Volume of Air Sampled for PM ₁₀	m ³	1786.33
4	Volume of Air Sampled for PM _{2.5}	m ³	24.04
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	284.56

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	26.88	80	IS – 5182, Part – II), 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	18.36	80	IS – 5182, Part – V & VI), 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	52.32	100	IS – 5182, Part – XXIII), 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	26.98	60	CPCB Manual
5	HCL	µg/m ³	BDL	--	CPCB Manual
6	CL2	µg/m ³	BDL	--	IS 5182 (Part 19) RA 2019
7	H2S	µg/m ³	BDL	--	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	--	CPCB Manual
9	HC	µg/m ³	BDL	--	CPCB Manual
10	Ammonia	µg/m ³	BDL	--	CPCB Manual
11	CS2	µg/m ³	BDL	--	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized By
[Signature]
(Technical Manager)

Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite. Ahmedabad – 380 015

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Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Gimar Khushbu Plaza, Opp. Vishal Mall,

Aditya Birla Circle, VIA Road, GIDC. Vapi – 396 195. Gujarat. India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com , sejalmapatel145@gmail.com



ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

ANALYSIS REPORT (AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/09/120	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	09/09/2020	Date of Testing	11/09/2020
Sampling Location	Near PAC-Plant		

Service Request form No.	AE/AIR/SRF/20/09/120
Sample ID No.	AE/AIR/ID/20/09/120
Instrument Name	Combo Dust Sampler VCDs 401 Sampler for PM _{2.5} , PM ₁₀ & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.40
3	Volume of Air Sampled for PM ₁₀	m ³	2166.82
4	Volume of Air Sampled for PM _{2.5}	m ³	24.04
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	296.92

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	19.63	80	IS – 5182, Part – II), 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	16.52	80	IS – 5182, Part – V & VI), 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	54.22	100	IS – 5182, Part – XXIII), 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	30.22	60	CPCB Manual
5	HCL	µg/m ³	BDL	--	CPCB Manual
6	CL ₂	µg/m ³	BDL	--	IS 5182 (Part 19) RA 2019
7	H ₂ S	µg/m ³	BDL	--	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	--	CPCB Manual
9	HC	µg/m ³	BDL	--	CPCB Manual
10	Ammonia	µg/m ³	BDL	--	CPCB Manual
11	CS ₂	µg/m ³	BDL	--	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized By
(Technical Manager)

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Contact: +91 99250 44987, 079 – 26760070

Aditya Environ

Environmental Stewardship Strategies and Solutions

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Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com , sejalmapatel145@gmail.com



ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

ANALYSIS REPORT

(AMBIENT AIR MONITORING)

Test Report No.	AE/AIR/20/09/121	Issue Date	17/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION		
Address of Customer	Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		
Date of Sampling	09/09/2020	Date of Testing	11/09/2020
Sampling Location	Near Main Gate 2		

Service Request form No.	AE/AIR/SRF/20/09/121
Sample ID No.	AE/AIR/ID/20/09/121
Instrument Name	Combo Dust Sampler VCDS 401 Sampler for PM2.5, PM10 & Gaseous Pollutants

❖ General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	24
2	Flow Rate of PM ₁₀	m ³ /min	1.20
3	Volume of Air Sampled for PM ₁₀	m ³	1696.33
4	Volume of Air Sampled for PM _{2.5}	m ³	24.00
5	Flow Rate for Gas	L/min	0.2
6	Volume of Air Sample for Gas	L	286.52

❖ Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	GPCB Limit	Test Method
1	Sulphur Dioxide	µg/m ³	24.55	80	IS - 5182, Part - II, 2001 (RA 2017)
2	Nitrogen Dioxide	µg/m ³	18.69	80	IS - 5182, Part - V & VI, 2006 (RA 2017)
3	Particulate Matter. (PM ₁₀)	µg/m ³	50.12	100	IS - 5182, Part - XXIII, 2006 (RA 2017)
4	Particulate Matter. (PM _{2.5})	µg/m ³	27.46	60	CPCB Manual
5	HCL	µg/m ³	BDL	--	CPCB Manual
6	CL2	µg/m ³	BDL	--	IS 5182 (Part 19) RA 2019
7	H2S	µg/m ³	BDL	--	IS 5182 (Part 7) 2019
8	HF	µg/m ³	BDL	--	CPCB Manual
9	HC	µg/m ³	BDL	--	CPCB Manual
10	Ammonia	µg/m ³	BDL	--	CPCB Manual
11	CS2	µg/m ³	BDL	--	IS 5182 (Part 20) RA 2019

Note: BDL: Below Detection Limit, N.D. : Not Detectable.



Authorized by
[Signature]
Technical Manager

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**TEST REPORT
(AMBIENT AIR MONITORING)**

Test Report No.:	UERL/20/06/GIL/A-005	Report Issue Date	02/07/2020
Service Request form No.:	UERL/AIR/D/SRF/06/A-005	Service Request Date	24/06/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/06/005	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/06/005
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District - Bharuch Gujarat, Pin Code - 392012 (India)		
Dates of Sampling :	24/06/2020	Date of Testing	25/06/2020
Location of Sampling / Monitoring:	Village Derol		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	RDS:SR.No.160203106	10/08/2019	09/08/2020
UERL/AIR/FPS/08	Fine Particulate Sampler	FPS:SR.No.160402021	10/08/2019	09/08/2020

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.82
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1715.0
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Test Parameter Results**

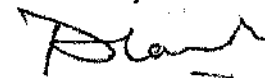
DISCIPLINE - CHEMICAL TESTING			NAME OF GROUP - ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	27	60
2.	Particulate Matter PM ₁₀	µg/m ³	78	100
3.	Sulphur Dioxide	µg/m ³	17	80
4.	Nitrogen Dioxide	µg/m ³	19	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	27	200

Note: "The parameters marked * are not accredited by NABL"

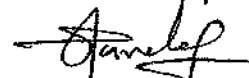
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager - Operations)

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/06/GIL/A-006	Report Issue Date	02/07/2020
Service Request form No.:	UERL/AIR/D/SRF/06/A-006	Service Request Date	24/06/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/06/006	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/06/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	24/06/2020	Date of Testing	25/06/2020
Location of Sampling / Monitoring:	Village Sarnar		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	RDS:SR.No.160203118	10/08/2019	09/08/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	FPS:SR.No.160802033	10/08/2019	09/08/2020

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

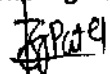
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.91
2.	Flow Rate of PM ₁₀	m ³ /min	1.22
3.	Volume of Air Sampled for PM ₁₀	m ³	1750.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	21	60
2.	Particulate Matter PM ₁₀	µg/m ³	73	100
3.	Sulphur Dioxide	µg/m ³	15	80
4.	Nitrogen Dioxide	µg/m ³	19	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂)*	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL)*	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/06/GIL/A-007	Report Issue Date	02/07/2020
Service Request form No.:	UERL/AIR/D/SRF/06/A-007	Service Request Date	24/06/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/06/007	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/06/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	24/06/2020	Date of Testing	25/06/2020
Location of Sampling / Monitoring:	Village Argama		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013	10/08/2019	09/08/2020
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	10/08/2019	09/08/2020

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

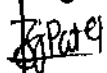
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.17
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1668.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	22	60
2.	Particulate Matter PM ₁₀	µg/m ³	71	100
3.	Sulphur Dioxide	µg/m ³	16	80
4.	Nitrogen Dioxide	µg/m ³	21	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

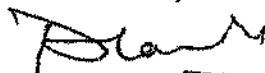
Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:




(Environment Engg.)

Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:



(Manager – Operations)

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/06/GIL/A-008	Report Issue Date	02/07/2020
Service Request form No.:	UERL/AIR/D/SRF/06/A-008	Service Request Date	24/06/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/06/008	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/06/008
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	24/06/2020	Date of Testing	25/06/2020
Location of Sampling / Monitoring:	Village Vilayat		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/19	Respirable Dust Sampler	1796 DTD 2013	10/08/2019	09/08/2020
UERL/AIR/FPS/22	Fine Particulate Sampler	195 DTK 2013	10/08/2019	09/08/2020

➤ General Sampling / Monitoring Observation as per CPCB Guideline

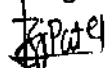
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.26
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1674.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.4

➤ Test Parameter Results


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	18	60
2.	Particulate Matter PM ₁₀	µg/m ³	68	100
3.	Sulphur Dioxide	µg/m ³	18	80
4.	Nitrogen Dioxide	µg/m ³	20	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (02.01.2020 to 17.03.2023)

QC/NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 45001:2018 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/07/GIL/A-005	Report Issue Date	01/08/2020
Service Request form No.:	UERL/AIR/D/SRF/07/A-005	Service Request Date	04/07/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/07/005	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/07/005
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	04/07/2020	Date of Testing	06/07/2020
Location of Sampling / Monitoring:	Village Derol		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	RDS:SR.No.160203106	10/08/2019	09/08/2020
UERL/AIR/FPS/08	Fine Particulate Sampler	FPS:SR.No.160402021	10/08/2019	09/08/2020

➤ General Sampling / Monitoring Observation as per CPCB Guideline

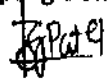
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.08
2.	Flow Rate of PM ₁₀	m ³ /min	1.22
3.	Volume of Air Sampled for PM ₁₀	m ³	1762.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ Test Parameter Results

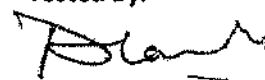
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	26	60
2.	Particulate Matter PM ₁₀	µg/m ³	74	100
3.	Sulphur Dioxide	µg/m ³	16	80
4.	Nitrogen Dioxide	µg/m ³	20	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL)*	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

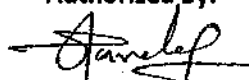
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA 1986 (12.01.2020 to 17.03.2023)

QCINABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

**TEST REPORT
(AMBIENT AIR MONITORING)**

Test Report No.:	UERL/20/07/GIL/A-006	Report Issue Date	01/08/2020
Service Request form No.:	UERL/AIR/D/SRF/07/A-006	Service Request Date	04/07/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/07/006	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/07/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	04/07/2020	Date of Testing	06/07/2020
Location of Sampling / Monitoring:	Village Sarnar		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	RDS:SR.No.160203118	10/08/2019	09/08/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	FPS:SR.No.160802033	10/08/2019	09/08/2020

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

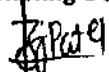
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.15
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1738.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Test Parameter Results**

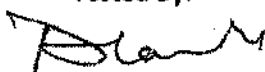
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	28	60
2.	Particulate Matter PM ₁₀	µg/m ³	70	100
3.	Sulphur Dioxide	µg/m ³	17	80
4.	Nitrogen Dioxide	µg/m ³	20	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

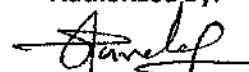
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

QC/NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 45001:2018 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/07/GIL/A-007	Report Issue Date	01/08/2020
Service Request form No.:	UERL/AIR/D/SRF/07/A-007	Service Request Date	04/07/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/07/007	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/07/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District - Bharuch Gujarat, Pin Code - 392012 (India)		
Dates of Sampling :	04/07/2020	Date of Testing	06/07/2020
Location of Sampling / Monitoring:	Village Argama		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013	10/08/2019	09/08/2020
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	10/08/2019	09/08/2020

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.9
2.	Flow Rate of PM ₁₀	m ³ /min	1.25
3.	Volume of Air Sampled for PM ₁₀	m ³	1792.5
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.9

➤ Test Parameter Results

DISCIPLINE - CHEMICAL TESTING			NAME OF GROUP - ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	25	60
2.	Particulate Matter PM ₁₀	µg/m ³	73	100
3.	Sulphur Dioxide	µg/m ³	15	80
4.	Nitrogen Dioxide	µg/m ³	18	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

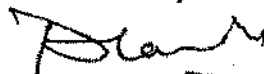
Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:



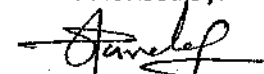
(Environment Engg.)

Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:



(Manager - Operations)

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (32-03-2020 to 31-03-2023)

GCH-NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 45001:2018 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/07/GIL/A-008	Report Issue Date	01/08/2020
Service Request form No.:	UERL/AIR/D/SRF/07/A-008	Service Request Date	04/07/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/07/008	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/07/008
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District - Bharuch Gujarat, Pin Code - 392012 (India)		
Dates of Sampling :	04/07/2020	Date of Testing	06/07/2020
Location of Sampling / Monitoring:	Village Vilayat		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/19	Respirable Dust Sampler	1796 DTD 2013	10/08/2019	09/08/2020
UERL/AIR/FPS/22	Fine Particulate Sampler	195 DTK 2013	10/08/2019	09/08/2020

General Sampling / Monitoring Observation as per CPCB Guideline

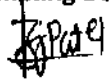
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.96
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1725.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

Test Parameter Results

DISCIPLINE - CHEMICAL TESTING			NAME OF GROUP - ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	23	60
2.	Particulate Matter PM ₁₀	µg/m ³	69	100
3.	Sulphur Dioxide	µg/m ³	16	80
4.	Nitrogen Dioxide	µg/m ³	19	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

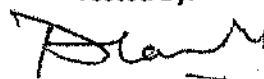
Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:



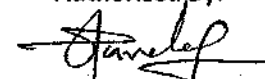
(Environment Engg.)

Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:



(Manager - Operations)

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/08/GIL/A-005	Report Issue Date	28/08/2020
Service Request form No.:	UERL/AIR/D/SRF/08/A-005	Service Request Date	06/08/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/08/005	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/08/005
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	06/08/2020	Date of Testing	07/08/2020
Location of Sampling / Monitoring:	Village Derol		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	RDS:SR.No.160203106	01/08/2020	31/07/2021
UERL/AIR/FPS/08	Fine Particulate Sampler	FPS:SR.No.160402021	01/08/2020	31/07/2021

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.01
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1728.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

Test Parameter Results

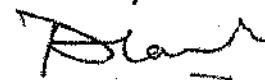
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	26	60
2.	Particulate Matter PM ₁₀	µg/m ³	78	100
3.	Sulphur Dioxide	µg/m ³	18	80
4.	Nitrogen Dioxide	µg/m ³	22	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

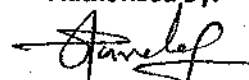
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/08/GIL/A-006	Report Issue Date	28/08/2020
Service Request form No.:	UERL/AIR/D/SRF/08/A-006	Service Request Date	06/08/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/08/006	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/08/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	06/08/2020	Date of Testing	07/08/2020
Location of Sampling / Monitoring:	Village Sarnar		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	RDS:SR.No.160203118	01/08/2020	31/07/2021
UERL/AIR/FPS/06	Fine Particulate Sampler	FPS:SR.No.160802033	01/08/2020	31/07/2021

➤ General Sampling / Monitoring Observation as per CPCB Guideline

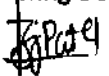
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.86
2.	Flow Rate of PM ₁₀	m ³ /min	1.22
3.	Volume of Air Sampled for PM ₁₀	m ³	1746.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.9

➤ Test Parameter Results

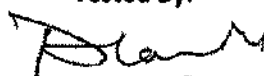
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	31	60
2.	Particulate Matter PM ₁₀	µg/m ³	80	100
3.	Sulphur Dioxide	µg/m ³	19	80
4.	Nitrogen Dioxide	µg/m ³	25	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL)*	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

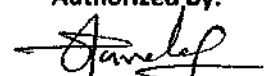
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/08/GIL/A-007	Report Issue Date	28/08/2020
Service Request form No.:	UERL/AIR/D/SRF/08/A-007	Service Request Date	06/08/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/08/007	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/08/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	06/08/2020	Date of Testing	07/08/2020
Location of Sampling / Monitoring:	Village Argama		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013	01/08/2020	31/07/2021
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	01/08/2020	31/07/2021

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.88
2.	Flow Rate of PM ₁₀	m ³ /min	1.21
3.	Volume of Air Sampled for PM ₁₀	m ³	1733.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.9

➤ Test Parameter Results

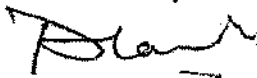
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	24	60
2.	Particulate Matter PM ₁₀	µg/m ³	71	100
3.	Sulphur Dioxide	µg/m ³	17	80
4.	Nitrogen Dioxide	µg/m ³	21	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

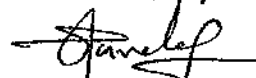
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/08/GIL/A-008	Report Issue Date	28/08/2020
Service Request form No.:	UERL/AIR/D/SRF/08/A-008	Service Request Date	06/08/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/08/008	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/08/008
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	06/08/2020	Date of Testing	07/08/2020
Location of Sampling / Monitoring:	Village Vilayat		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/19	Respirable Dust Sampler	1796 DTD 2013	01/08/2020	31/07/2021
UERL/AIR/FPS/22	Fine Particulate Sampler	195 DTK 2013	01/08/2020	31/07/2021

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.99
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1727.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

Test Parameter Results

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	25	60
2.	Particulate Matter PM ₁₀	µg/m ³	72	100
3.	Sulphur Dioxide	µg/m ³	19	80
4.	Nitrogen Dioxide	µg/m ³	23	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:

(Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Manager – Operations)

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/09/GIL/A-005	Report Issue Date	28/09/2020
Service Request form No.:	UERL/AIR/D/SRF/09/A-005	Service Request Date	04/09/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/09/005	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/09/005
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	04/09/2020	Date of Testing	05/09/2020
Location of Sampling / Monitoring:	Village Derol		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	RDS:SR.No.160203106	01/08/2020	31/07/2021
UERL/AIR/FPS/08	Fine Particulate Sampler	FPS:SR.No.160402021	01/08/2020	31/07/2021

➤ General Sampling / Monitoring Observation as per CPCB Guideline

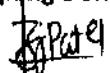
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.65
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1702.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.7

➤ Test Parameter Results

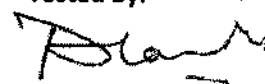
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	28	60
2.	Particulate Matter PM ₁₀	µg/m ³	81	100
3.	Sulphur Dioxide	µg/m ³	19	80
4.	Nitrogen Dioxide	µg/m ³	25	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂) *	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL) *	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

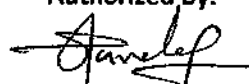
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 12.03.2023)

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/09/GIL/A-006	Report Issue Date	28/09/2020
Service Request form No.:	UERL/AIR/D/SRF/09/A-006	Service Request Date	04/09/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/09/006	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/09/006
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	04/09/2020	Date of Testing	05/09/2020
Location of Sampling / Monitoring:	Village Sarnar		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	RDS:SR.No.160203118	01/08/2020	31/07/2021
UERL/AIR/FPS/06	Fine Particulate Sampler	FPS:SR.No.160802033	01/08/2020	31/07/2021

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.72
2.	Flow Rate of PM ₁₀	m ³ /min	1.24
3.	Volume of Air Sampled for PM ₁₀	m ³	1764.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.8

Test Parameter Results

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	25	60
2.	Particulate Matter PM ₁₀	µg/m ³	76	100
3.	Sulphur Dioxide	µg/m ³	17	80
4.	Nitrogen Dioxide	µg/m ³	22	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂)*	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL)*	µg/m ³	BDL	200

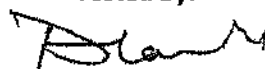
Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:



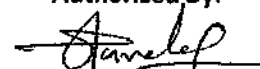
(Environment Engg.)

Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:



(Manager – Operations)

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (32.01.2020 to 17.03.2023)

QCINABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 45001:2018 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/09/GIL/A-007	Report Issue Date	28/09/2020
Service Request form No.:	UERL/AIR/D/SRF/09/A-007	Service Request Date	04/09/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/09/007	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/09/007
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	04/09/2020	Date of Testing	05/09/2020
Location of Sampling / Monitoring:	Village Argama		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013	01/08/2020	31/07/2021
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	01/08/2020	31/07/2021

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.52
2.	Flow Rate of PM ₁₀	m ³ /min	1.2
3.	Volume of Air Sampled for PM ₁₀	m ³	1693.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.6

Test Parameter Results

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	31	60
2.	Particulate Matter PM ₁₀	µg/m ³	82	100
3.	Sulphur Dioxide	µg/m ³	20	80
4.	Nitrogen Dioxide	µg/m ³	24	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂)*	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL)*	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

Sampling Done By:

(Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Manager – Operations)

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (12.01.2020 to 12.03.2023)

QC/NABET Accredited EA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.:	UERL/20/09/GIL/A-008	Report Issue Date	28/09/2020
Service Request form No.:	UERL/AIR/D/SRF/09/A-008	Service Request Date	04/09/2020
Sample ID No.:	UERL/AIR/D/ID/A-20/09/008	Field Data Sheet No.	UERL/AIR/D/FDS/A-20/09/008
Name & Add. of Customer	M/s. Grasim Industries Limited Grasim Cellulosic Division Plot No. 1, GIDC, Vilayat Industrial Estate, District – Bharuch Gujarat, Pin Code – 392012 (India)		
Dates of Sampling :	04/09/2020	Date of Testing	05/09/2020
Location of Sampling / Monitoring:	Village Vilayat		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/19	Respirable Dust Sampler	1796 DTD 2013	01/08/2020	31/07/2021
UERL/AIR/FPS/22	Fine Particulate Sampler	195 DTK 2013	01/08/2020	31/07/2021

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

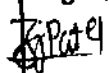
Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.69
2.	Flow Rate of PM ₁₀	m ³ /min	1.22
3.	Volume of Air Sampled for PM ₁₀	m ³	1734.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.7

➤ **Test Parameter Results**

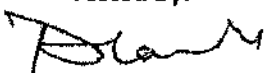
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM _{2.5}	µg/m ³	28	60
2.	Particulate Matter PM ₁₀	µg/m ³	76	100
3.	Sulphur Dioxide	µg/m ³	17	80
4.	Nitrogen Dioxide	µg/m ³	21	80
5.	Hydrogen Sulphide (H ₂ S) *	µg/m ³	BDL	150
6.	Carbon Disulphide (CS ₂)*	µg/m ³	BDL	100
7.	Chlorine (Cl ₂)	µg/m ³	BDL	100
8.	Hydrochloric Acid (HCL)*	µg/m ³	BDL	200

Note: "The parameters marked * are not accredited by NABL"

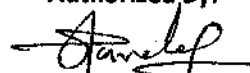
Sampling Done By:


(Environment Engg.)

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager – Operations)

ANNEXURE-19
CHWIF MEMBERSHIP CERTIFICATE



BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)

16th Aug, 2019

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

Sub: Membership Certificate for Common Incineration Facility.

Dear Sir,

We hereby certify that you have become member for the common incineration facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked quantity of **10 MT/Year**. You have paid Registration fees for common incinerator membership. Your Membership No. is **CI/BD/92**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,
For, BEIL INFRASTRUCTURE LIMITED


AUTHORISED SIGNATORY

CIN NO. U45300GJ1997PLC032696

Regd. Office : Plot No. 9701-18, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 226228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

ANNEXURE-20
COPY OF PLI POLICY

TAX INVOICE

Details of Insured		Details of Insurer	
Insured Name	: Grasim Industries Limited	Insurer Name	: HDFC ERGO General Insurance Company Limited
Correspondance Address	: A-2, Aditya Birla Centre, S.K.Ahire Marg, Worli Sea Face, Mumbai, Mumbai, Mumbai, Maharashtra, Mumbai, Maharashtra-400030	Branch Address	: LEELA BUSINESS PARK, 6TH FLR, ANDHERI - KURLA RD, MUMBAI, 400059.
Billing Address	: A-2, Aditya Birla Centre, S.K.Ahire Marg, Worli Sea Face, Mumbai, Mumbai, Mumbai, Maharashtra, Mumbai, Maharashtra-400030	GSTIN	: 27AABCL5045N1Z8
Place of Supply	: MAHARASHTRA	Policy No.	: 3133202292753702
State Code	: 27	Certificate No.	: 3133202292753702000
PAN	: AAACG4464B	Invoice No.	: 0051500410991
GSTIN	: 27AAACG4464B1ZY	Policy issue date / Invoice date	: 16 May 2020

Premium Details(Rs.)

S.No.	Description of Services	HSN Code	Premium Amount	CGST		SGST		IGST		Total Tax	Premium Value with
				Tax %	Amount	Tax %	Amount	Tax %	Amount		Tax
1	Public Liability Policy_Basic Premium	9971	25784	9%	2320.56	9%	2320.44	18%	-	4641	30425
2	Public Liability Policy_Contribution to Environment Relief Fund	9971	25784	-	-	-	-	-	-	-	25784
Total Invoice Value											56209
Total Invoice Value (In Words)		Rupees Fifty Six Thousand Two Hundred and Nine Only									

Whether Tax is payable on Reverse charge basis : No

For HDFC ERGO General Insurance Company Ltd



Authorised signatory

May 16, 2020

Grasim Industries Limited

A-2, Aditya Birla Centre, S.K.Ahira Marg, Worli Sea
Face, Mumbai, Mumbai, Mumbai, Maharashtra, Mumbai,
Maharashtra-400030

Pan Card Number : AAACG4464B

Dear Customer,

Sub: Business Public Liability Insurance (Under PLI Act 1991) Policy No: 3133202292753702000

We thank you for having preferred us for your *Insurance* requirements. We at HDFC ERGO General Insurance believe "*Insurance*" as not only to be an assurance to indemnify in the event of unfortunate circumstances, but one that signifies protection and support, which you can count on when you need it most.

The Insurance Policy enclosed herewith is a written agreement providing confirmation of our responsibility towards you that puts insurance coverage into effect against stipulated perils.

Please note that the policy has been issued based on the information contained in the proposal form and / or documents received from you or your representative / broker.

Name of the Intermediary: Aditya Birla Insurance Brokers Ltd
Intermediary Code: 200500288952

Where the proposal form is not received, information obtained from you or your representative /broker, whether orally or otherwise, is captured in the policy document.

If you wish to contact us in reference to your existing policy and /or other general insurance solutions offered by us, you may write to our correspondence address as mentioned below. Alternatively, you may visit our website www.hdfcergo.com. To enable us to serve you better, you are requested to quote your Policy Number in all correspondences.

Thanking you once again for choosing HDFC ERGO General Insurance Company Limited and looking forward to many more years of association.

Yours sincerely,



Authorised Signatory

Public Liability Insurance (Under PLI Act 1991)

SCHEDULE

Policy No: 3133202292753702000

- Item 1. Insured** : Grasim Industries Limited
- Item 2. Producer** : Aditya Birla Insurance Brokers Ltd
- Item 3. Financial Interest** : Not Applicable
- Item 4. Mailing address of the Insured** : A-2, Aditya Birla Centre, S.K.Ahire Marg, Worli Sea Face, Mumbai, Mumbai, Maharashtra, Mumbai, Maharashtra, 400030.
- Item 5. Pan Card Number** : AAACG4464B
- Item 6. Business** : Grasim Industries Limited is the flagship of the Aditya Birla Group. It started as a textiles manufacturer in India in 1947. Today, it is a leading global player in VSF, the largest chemicals (Chlor-Alkali-s), largest cement producer and Diversified Financial Services (NBFC, Asset Management and Life Insurance) player in India
- Item 7. Policy Period** : From 00:01 hours : 01 April 2020
To (Midnight) : 31 March 2021
- Item 8. Premium** : Rs. 56,209.00
- Item 9. Premium & Coverage Statement** : Refer to Page 2
- 9.1 Premium Computation
- 9.2 Insurance Limits & Excess
- Item 10. Clauses, Conditions & Warranties :**

Form Number	Form Name	Effective Date	Date Issued
PL-02-0032	Policy Schedule	1 April 2020	16 May 2020
PL-02-0031	Insurance contract	1 April 2020	16 May 2020
PL-02-0009	Limitation To Designated Premises Or Project	1 April 2020	16 May 2020

Subject otherwise to terms and conditions of Public Liability Insurance Policy.

Signed for and on behalf of HDFC ERGO General Insurance Company Limited, on 16 May 2020



Authorised Signatory

GST Registration No: 27AABCL5045N1Z8. The contract will be cancelled ab initio in case; the consideration under the policy is not realized.

"The stamp duty of ₹ 0.50 paid by Demand Draft, vide Receipt/Challan no. CSD/293/2020/385/2020 dated 24/01/2020 as prescribed in Government of Maharashtra Order No. Mudrank-2017/CR.97/M-1, dated the 09th January 2018".

Note: Where the proposal form is not received, information obtained from insured, whether orally or otherwise, is captured in the policy document. Discrepancies, if any, in the information contained in the policy document may be pointed out by an insured within 15 days from the policy issue date after which information contained in the policy document shall be deemed to have been accepted as correct.

Branch	Leela Business Park, 6th Flr, Andheri - Kurla Rd, Mumbai, 400059. Tel.: +91-22-66383600
---------------	---

Broker Name : Aditya Birla Insurance Brokers Ltd**Broker Code : 200500288952**

Premium & Coverage Statement

(Item. 9 of Schedule, Attached to and forming part of Policy No: 3133202292753702000)

9.1 Premium Computation

Premium Details	Amount (Rs.)
Net Premium	25,784.00
GST 18% : Central Tax 9% (Rs. 2320.56) + State Tax 9% (Rs. 2320.44)	4,641.00
Add: Contribution to Environment Relief Fund	25,784.00
Total Premium	56,209.00
Invoice Number :	0051500410991
GSTN :	27AAACG4464B1ZY
Place of Supply	Maharashtra
SAC Code	997139

9.2 Insurance Limits & Excess

Insurance Limits

Details	Amount (Rs.)
Each Accident Insurance Limit	50,000,000.00
Aggregate Insurance Limit	150,000,000.00

Excess

Compulsory Excess	Not Applicable
Voluntary Excess	Not Applicable

Public Liability Insurance (Under PLI Act 1991)

1. OPERATIVE CLAUSE

WHEREAS the Insured named in the Schedule hereto and carrying on the business described in the said schedule has applied to HDFC ERGO 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 consideration for or on account of such indemnity in accordance with the manner prescribed under Section 64VB of the Insurance Act, 1938 and as per the provisions of the Public Liability Insurance Act and the rules framed there under.

NOW THIS POLICY WITNESSETH that subject to the terms, conditions and exclusions herein contained or endorsed or otherwise expressed herein, to indemnify the Insured or Owner against the statutory liability arising out of accidents occurring during the currency of the policy due to handling of hazardous substances as provided for in the said Act and the Rules framed thereunder.

2. DEFINITIONS

For the purpose of this policy, the following terms shall have the meaning as set forth hereunder:

- (i) "Act" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time;
- (ii) "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;
- (iii) "Handling" in relation to any hazardous 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;
- (iv) "Hazardous Substance" and group means any substance or preparation which is defined as hazardous substance under the Public Liability Insurance Act, 1991 and the Rules framed thereunder;
- (v) "Owner" or "Insured" means a person who owns, or has control over handling of any hazardous substance at the time of accident and includes:
 - (a) in the case of a firm, any of its partners
 - (b) in the case of an association, any of its members, and
 - (c) 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;
- (vi) "Turnover" shall mean
 - (a) In case of Manufacturing Units - Entire annual gross sales turnover including all levies and taxes of manufacturing units handling hazardous substance as defined in the Public Liability Insurance Act, 1991. For the purpose of this insurance, the term "Units" shall mean all operations being carried out in the manufacturing complex in one location.
 - (b) In case of Godowns/ Warehouse Owners - Total annual rental receipts of premises handling hazardous substance as defined in the Public Liability Insurance Act, 1991.
 - (c) In case of Transport Operators - Total annual freight receipts

(d) In all other cases – Total annual gross receipts

3. EXCLUSIONS

The Company shall not be liable:

- (i) for any wilful or intentional non-compliance of any statutory requirements;
- (ii) in respect of fines, penalties, punitive and /or exemplary damages;
- (iii) under any law or legislation except in so far as provided for in Section 8 (1) & 8 (2) of the Act;
- (iv) 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 or Owner's control, care or custody;
- (v) for any liability 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;
- (vi) for any liability 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;
- (vii) for matter outside the scope of Public Liability Insurance Act, 1991.
- (viii) in respect of losses/liability arising outside India.

4. CONDITIONS

- 1) The Insured Owner shall give written notice to the Company as soon as reasonable 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 application forwarded by the Collector and all such additional information and/or assistance that the company may require.
- 2) No admission, offer, promise or payment 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 the policy there be any other insurance covering the same liability,

Liability Insurance

Public Liability

Form PL-02-0031

Insurance Contract

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3133202292753702000

HDFC ERGO General Insurance Company Limited. (Formerly HDFC General Insurance Limited from Sept 14, 2016 and L&T General Insurance Company Limited upto Sept 13, 2016). CIN: U66030MH2007PLC177117. Registered & Corporate Office: 1st Floor, HDFC House, 165 - 166 Backbay Reclamation, H. T. Parekh Marg, Churchgate, Mumbai - 400 020. Customer Service Address: D-301, 3rd Floor, Eastern Business District (Magnet Mall), LBS Marg, Bhandup (West), Mumbai - 400 078. Toll Free Number: 1800 2700 700 Te.: +91 22 6638 3600 | Fax: 91 22 6638 3699 | care@hdfcergo.com | www.hdfcergo.com. UIN : IRDAN125P0002V01200809 IRDAI Reg No.146

then the Company shall not be liable to pay or contribute more than its rateable proportion of such liability.

- 6) The Company may cancel this policy by giving seven days' notice in writing of such cancellation to the Insured's last known address and in such an event the Company will return a pro-rata portion of the premium (subject to a minimum retention of 25 per cent of the annual premium) for the unexpired part of the insurance.

The policy may also be cancelled by the Insured by giving thirty days' notice in writing to the Company, in which event the Company will retain premium at short period scale as set forth in the table below, provided there is no claim under the policy during the Policy Period.

In case of any claim under the policy no refund of premium shall be allowed.

The Company shall have no obligation to give notice that the policy is due for renewal or renew this policy upon expiration or termination.

Table of Short Period Scales	
Period of Risk(Not exceeding)	Premium to be retained by the Company (% of the Annual Rate).
1 week	10%
1 month	25%
2 months	35%
3 months	50%
4 months	60%
6 months	75%
8 months	85%
Exceeding 8 months	Total Annual Premium

- 7) If the Company shall disclaim by 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 all practical purpose shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.
- 8) The Company shall not be liable to make any payment in respect of any claim if such be in any manner fraudulent or support 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.
- 9) 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 there under or this policy shall bear such as specific meaning.
- 10) Any dispute regarding interpretation of the terms, conditions and exceptions of the Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.
- 11) Any person who has a grievance against the Company, may himself or through his legal heirs make a complaint in writing to the Insurance Ombudsman in accordance with the procedure contained in The Redressal of Public Grievance Rules, 1998 (Ombudsman Rules). Proviso to Rule 16(2) of the Ombudsman Rules however, limits compensation that may be awarded by the Ombudsman, to the lower of compensation necessary to cover the loss suffered by the insured as a direct consequence of the insured peril or Rs. 20 lakhs Rupees Twenty Lakhs Only) inclusive of ex-gratia and other expenses. A copy of the said Rules shall be made available by the Company upon prior written request by the Insured.

Public Liability Insurance (Under PLI Act 1991)

Endorsement

Policy Period	From: 01 April 2020 To: 31 March 2021
Effective Date	01 April 2020
Policy Number	3133202292753702000
Insured	Grasim Industries Limited
Name of Company	HDFC ERGO General Insurance Company Limited
Date issued	16 May 2020

The following provision is added to this policy.

Limitation To Designated Premises Or Project

This insurance only applies to injury or damage, resulting from the ownership, maintenance or use of the Premises or Project shown in the Schedule, including property thereon and operations on such Premises or Project that are necessary and incidental to the ownership, maintenance or use of the Premises or Project.

Schedule

Designated Premises Or Project: As per Annexure A

NO.	Particulars	Address / Location
1	SFD Nagda, Excel Fibre Division, Nagda	Birlagram Nagda, Pin Code - 456 331, Madhya Pradesh
2	Birla Cellulosic, TRADC.ABCFRC, Birla Cellulosic - Excel Fibre Division, Kharach	Birladham, Kharach, Kosamba (RS) Pin Code - 394 120, Gujarat
3	Grasiline Division, Harihar	Kumarapatnam, Dist. Haveri, Pin Code - 581 123, Karnataka
4	Harihar Polyfibre, Harihar	Kumarapatnam, Dist. Haveri, Pin Code - 581 123, Karnataka
5	Grasim Cellulosic Division, Vilayat	Plot No.1, GIDC Industrial Estate, PO:- Vilayat Taluka Vagra, Pin Code - 392 012 Dist. Bharuch, Gujarat
6	Chemical Division, Nagda	Birlagram Nagda, Pin Code - 456 331, Madhya Pradesh
7	Chemical Division, Vilayat	Plot No. 1, GIDC, Vilayat Industrial Estate, Taluka- Vagra, Bharuch-392012, Gujarat.
8	Epoxy Division, Vilayat	Plot No. 1, GIDC, Vilayat Industrial Estate, Taluka- Vagra, Bharuch-392012, Gujarat.
9	Chemical Division, Rehla	Garwah Road, P.O. Rehla, Pin code - 822124 Dist. Palamu, Jharkhand
10	Chemical Division, Renukoot	Renukoot Chemical Division, P.O.Renukoot, Pin Code - 231

Liability Insurance

Limitation To Designated Premises Or Project

Form PL-02-0009 (Ed. 07-06)

Endorsement

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3133202292753702000

HDFC ERGO General Insurance Company Limited. (Formerly HDFC General Insurance Limited from Sept 14, 2016 and L&T General Insurance Company Limited upto Sept 13, 2016).CIN: U66030MH2007PLC177117. Registered & Corporate Office: 1st Floor, HDFC House, 165 - 166 Backbay Reclamation, H. T. Parekh Marg, Churchgate, Mumbai - 400 020. Customer Service Address: D-301, 3rd Floor, Eastern Business District (Magnet Mall), LBS Marg, Bhandup (West), Mumbai - 400 078. Toll Free Number: 1800 2700 700 Te.: +91 22 6638 3600 | Fax: 91 22 6638 3699 | care@hdfcergo.com | www.hdfcergo.com. UIN : IRDAN125P0002V01200609 IRDAI Reg No.146

		217, Dist. Sonbhadra, Uttarpradesh
11	Chemical Division, Karwar	Karwar Chemical Division, Karwar P.O. Karwar, Binga, Pin Code - 581 307, Dist. Uttara Kannada, Karnataka
12	Chemical Division, Ganjam	Chemical Division, Ganjam, Jayshree, Pin Code - 761 026, Dist. Ganjam, Odisha,
13	Chemical Division, Singach	Singach Salt Works, P.O. Singach, via Vadinar Pin Code - 361 010, Dist. Jamnagar, Gujarat
14	Chemical Division, Pundi	Pundi Galli, Vairapukotturu, Palasa, Srikakulam (Andhra Pradesh) 532217
15	Vikram Woollen	Plot No. GH I to IV, Ghinrongi, Malanpur, Dist. Bhind, Pin Code - 477 117, Madhya Pradesh
16	Pulp & Fibre Innovation Centre, Talaja	Plot No.1 & 1-A/1, MIDC Talaja, Taluka Panvel, Dist- Raigad, Maharashtra
17	Performance and Material Research Centre, Talaja	Plot No.1 & 1-A/1, Block SD-1, MIDC Talaja, Taluka Panvel, Dist- Raigad, Maharashtra
18	Rayon Division, Veraval	Indian Rayon Compound, Veraval, Gujarat - 362266
19	Jayshree Textile, Rishra	Po:- Prabasnagar, Dist. Hooghly - 712249, West Bengal
20	Indogulf Fertilisers, Jagdishpur	Po:- Jagdishpur Industrial Area, Dist. Amethi - 227 817, Uttarpradesh
21	Insulator Division, Rishra	Po:- Prabasnagar, Dist. Hooghly - 712249, West Bengal
22	Insulator Division, Halol	P.O. Meghasar, Taluka Halol, Dist. Panchmahal, Gujarat PIN 389350
23	Chemical, BALABHADRAPURAM	Survey No.1,2,3,4, Kanedumetta Road, Balabhadrapuram, East Godavari, Pin 533343, Andhra Pradesh
24	Grasim Cellulosic Division (600 TPD), Vilayat	Plot No.1, GIDC Industrial Estate, PO:- Vilayat Taluka Vagra, Pin Code - 392 012 Dist. Bharuch, Gujarat

All other terms and conditions remain unchanged.



Authorized Representative

GRIEVANCE REDRESSAL PROCEDURE

If you have a grievance that you wish us to redress, you may contact us with the details of your grievance through:

- Call Centre (Toll free helpline)
1800 2 700 700 (accessible from any Mobile and Landline within India)
1800 226 226 (accessible from any MTNL and BSNL Lines)
- Emails - grievance@hdfcergo.com
- Designated Grievance Officer in each branch.
- Company Website - www.hdfcergo.com
- Fax : 022 - 66383699
- Courier : Any of our Branch office or corporate office

You may also approach the Complaint & Grievance (C&G) Cell at any of our branches with the details of your grievance during our working hours from Monday to Friday.

If you are not satisfied with our redressal of your grievance through one of the above methods, you may contact our Head of Customer Service at

The Complaint & Grievance Cell ,
HDFC ERGO General Insurance Company Ltd.
D-301, 3rd Floor, Eastern Business District (Magnet Mall),
LBS Marg, Bhandup (West),
Mumbai - 400078. Maharashtra

In case you are not satisfied with the response / resolution given / offered by the C&G cell, then you can write to the Principal Grievance Officer of the Company at the following address

To the Principal Grievance Officer
HDFC ERGO General Insurance Company Limited
D-301, 3rd Floor, Eastern Business District (Magnet Mall),
LBS Marg, Bhandup (West),
Mumbai - 400078. Maharashtra
e-mail: principalgrievanceofficer@hdfcergo.com

You may also approach the nearest Insurance Ombudsman for resolution of your grievance. The contact details of Ombudsman offices are mentioned below if your grievance pertains to:

- Insurance claim that has been rejected or dispute of a claim on legal construction of the policy
- Delay in settlement of claim
- Dispute with regard to premium
- Non-receipt of your insurance document

Names of Ombudsman and Addresses of Ombudsmen Centers	
Jurisdiction	Office Address
Gujarat, Dadra & Nagar Haveli, Daman and Diu	AHMEDABAD. Office of the Insurance Ombudsman, 2nd floor, Ambica House, Near C.U. Shah College, 5, Navyug Colony, Ashram Road, Ahmedabad - 380 014 Tel.: 079 - 27546150 / 27546139 Fax: 079 - 27546142 Email: bimalokpal.ahmedabad@gbic.co.in
Karnataka	BENGALURU - Shri. M. Parshad Office of the Insurance Ombudsman, Jeevan Soudha Building, PID No. 57-27-N-19, Ground Floor, 19/19, 24th Main Road, JP Nagar, 1st Phase, Bengaluru - 560 078. Tel.: 080 - 26652048/ 26652049 Email: bimalokpal.bengaluru@gbic.co.in
Madhya Pradesh, Chattisgarh	BHOPAL - Shri. R K Srivastava 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@gbic.co.in
Orissa.	BHUBANESHWAR - Shri. B. N. Mishra Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar - 751 009. Tel.: 0674 - 2596461 / 2596455 Fax: 0674 - 2596429 Email: bimalokpal.bhubaneswar@gbic.co.in
Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir, Chandigarh	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@gbic.co.in
Tamil Nadu, Pondicherry Town and Karaikal (which are part of Pondicherry).	CHENNAI - Shri Virander Kumar 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@gbic.co.in
Delhi	DELHI - Smt. Sandhya Baliga 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@gbic.co.in
Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura.	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@gbic.co.in
Andhra Pradesh, Telangana, Yanam and part of Territory of Pondicherry.	HYDERABAD - Shri. G. Rajeswara Rao 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@gbic.co.in
Rajasthan	JAIPUR - Shri. Ashok K. Jain Office of the Insurance Ombudsman, Jeevan Nichi - II Bldg., Gr. Floor, Bhawani Singh Marg, Jaipur - 302 005. Tel.: 0141-2740363 Email: Bimalokpal.jaipur@gbic.co.in

Kerala, Lakshadweep, Mahe-a part of Pondicherry.	ERNAKULAM - Shri. P. K. Vijayakumar 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@gbic.co.in
West Bengal, Sikkim, Andaman & Nicobar islands.	KOLKATA - Shri. K. B. Saha 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@gbic.co.in
Districts of Uttar Pradesh : Laitpur, Jhansi, Mahoba, Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhadra, Fatehpur, Pratapgarh, Jaunpur, Varanasi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bahraich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sultanpur, Maharajgang, Santkabimagar, Azamgarh, Kushinagar, Gorkhpur, Deoria, Mau, Ghazipur, Chandauli, Ballia, Sidharathnagar	LUCKNOW - Shri. N. P. Bhagat Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase-II, Nawal Kishore Road, Hazratganj, Lucknow - 226001 Tel.: 0522 - 2231330 / 2231331 Fax: 0522 - 2231310 Email: bimalokpal.lucknow@gbic.co.in
Goa, Mumbai Metropolitan Region excluding Navi Mumbai & Thane.	MUMBAI - Shri. A. K. Dasgupta 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@gbic.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, Orayya, Pilibhit, Etawah, Farrukhabad, Firozbad, Gautambodhanagar, Ghaziabad, Hardoi, Shahjahanpur, Hapur, Shamli, Rampur, Kashganj, Sambhal, Amroha, Hathras, Kanshiramnagar, Saharanpur.	NOIDA - Shri. Ajesh Kumar 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 / 2514251 /2514253 Email: bimalokpal.noida@gbic.co.in
Bihar, Jharkhand.	PATNA - Shri. Sadasiv Mishra Office of the Insurance Ombudsman, 1st Floor, Kalpana Arcade Building, Bazar Samiti Road, Bahadurpur, Patna 800 006 Tel.: 0612-2680952. Email: bimalokpal.patna@gbic.co.in
Maharashtra, Area of Navi Mumbai and Thane excluding Mumbai Metropolitan Region.	PUNE - Shri. A. K. Sahoo Office of the Insurance Ombudsman, Jeevan Darshan Bldg., 3rd Floor, C.T.S. No.s. 195 to 198, N.C. Kelkar Road, Narayan Peth, Pune - 411 030. Tel.: 020 - 32341320 Email: bimalokpal.pune@gbic.co.in

TAX INVOICE

Details of Insured		Details of Insurer	
Insured Name	: Grasim Industries Limited	Insurer Name	: HDFC ERGO General Insurance Company Limited
Correspondence Address	: A-2, Aditya Birla Centre, S.K.Ahira Marg, Worli Sea Face, Mumbai, Mumbai, Maharashtra, Mumbai, Maharashtra-400030	Branch Address	: LEELA BUSINESS PARK, 6TH FLR, ANDHERI - KURLA RD, MUMBAI, 400059.
Billing Address	: A-2, Aditya Birla Centre, S.K.Ahira Marg, Worli Sea Face, Mumbai, Mumbai, Mumbai, Maharashtra, Mumbai, Maharashtra-400030	GSTIN	: 27AABCL5045N1Z8
Place of Supply	: MAHARASHTRA	Policy No.	: 3133202292753702
State Code	: 27	Certificate No.	: 3133202292753702000
PAN	: AAACG4464B	Invoice No.	: 0051500410991
GSTIN	: 27AAACG4464B1ZY	Policy issue date / Invoice date	: 16 May 2020

Premium Details(Rs.)

S.No.	Description of Services	HSN Code	Premium Amount	CGST		SGST		IGST		Total Tax	Premium Value with
				Tax %	Amount	Tax %	Amount	Tax %	Amount		Tax
1	Public Liability Policy_Basic Premium	9971	25784	9%	2320.56	9%	2320.44	18%	-	4641	30425
2	Public Liability Policy_Contribution to Environment Relief Fund	9971	25784	-	-	-	-	-	-	-	25784
Total Invoice Value										56209	
Total Invoice Value (In Words)		Rupees Fifty Six Thousand Two Hundred and Nine Only									

Whether Tax is payable on Reverse charge basis : No

For HDFC ERGO General Insurance Company Ltd



 Authorised signatory

ANNEXURE-21
NOISE MONITORING REPORTS

Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Gimar Khushbu Plaza, Opp. Vishal Mall,

Aditya Birla Circle, VIA Road, GIDC. Vapi – 396 195. Gujarat. India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com, sejalmapatel145@gmail.com



ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL

Accredited Company valid till 31/12/2020

NOISE MONITORING REPORT

Test Report No.:	AE/AIR-B/20/08/084	Issue Date	18/08/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		

Date of Monitoring	10/08/2020	Time	Day & Night Time
Instrument Name	Model	Sr. No.	
Sound Level Meter	SL - 1350	N 701169	

Result

Location	Location	Noise Level dB(A) (Day)	Standard as per Permissible Limit CPCB
Within Company Premises (Day)	Near Main Gate	71.2	<75 dB(A)
	Near ALCP Plant	69.5	<75 dB(A)
	Near CLZ Plant	72.2	<75 dB(A)
	Near PAC Plant	68.5	<75 dB(A)
	Near ETP	70.6	<75 dB(A)
	Near Coal Tipper	69.9	<75 dB(A)
	Fiber Main Gate	72.3	<75 dB(A)
	Fiber Material Gate	71.6	<75 dB(A)
Location	Location	Noise Level dB(A) (Night)	Standard as per Permissible Limit CPCB
Within Company Premises (Night)	Near Main Gate	64.5	<70 dB(A)
	Near ALCP Plant	67.4	<70 dB(A)
	Near CLZ Plant	66.5	<70 dB(A)
	Near PAC Plant	59.8	<70 dB(A)
	Near ETP	60.2	<70 dB(A)
	Near Coal Tipper	61.5	<70 dB(A)
	Fiber Main Gate	61.4	<70 dB(A)
	Fiber Material Gate	60.8	<70 dB(A)

Note:

TWA: Time Weighted Average.

Area Code	Category of Area/Zone	Limit in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40



Authorized By

[Signature]

(Technical Manager)

Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite. Ahmedabad – 380 015

Contact: +91 99250 44987, 079 – 26760070

Aditya Environ

Environmental Stewardship Strategies and Solutions

Branch Office – 240 & 241, Gumar Khushbu Plaza, Opp. Vishal Mall,
Aditya Birla Circle, VIA Road, GIDC, Vapi – 396 195, Gujarat, India.

Contact: + 91- 99250 44987, 91737 93913. E-mail: sejal@adityainfra.com, sejalmapatel145@gmail.com



ISO 9001: 2015 Certified Company

Gujarat Pollution Control Board (Govt. of Gujarat)
Authorized Environmental Auditor (Schedule - II)

ISO/IEC 17025: 2005 NABL
Accredited Company valid till 31/12/2020

NOISE MONITORING REPORT

Test Report No.:	AE/AIR/20/09/117	Issue Date	18/09/2020
Name of Customer	M/s. GRASIM INDUSTRIES LTD.- CHEMICAL DIVISION Plot No. 1, GIDC, VILAYAT- 392012 TAL: VAGRA, DIST: BHARUCH.		

Date of Monitoring	10/09/2020	Time	Day & Night Time
Instrument Name	Model	Sr. No.	
Sound Level Meter	SL - 1350	N 701169	

Result

Location	Location	Noise Level dB(A) (Day)	Standard as per Permissible Limit CPCB
Within Company Premises (Day)	Near Main Gate	64.5	<75 dB(A)
	Near ALCP Plant	68.9	<75 dB(A)
	Near CLZ Plant	64.5	<75 dB(A)
	Near PAC Plant	66.3	<75 dB(A)
	Near ETP	70.5	<75 dB(A)
	Near Coal Tipper	69.8	<75 dB(A)
	Fiber Main Gate	70.1	<75 dB(A)
	Fiber Material Gate	65.8	<75 dB(A)
Location	Location	Noise Level dB(A) (Night)	Standard as per Permissible Limit CPCB
Within Company Premises (Night)	Near Main Gate	59.8	<70 dB(A)
	Near ALCP Plant	60.5	<70 dB(A)
	Near CLZ Plant	62.5	<70 dB(A)
	Near PAC Plant	60.2	<70 dB(A)
	Near ETP	64.2	<70 dB(A)
	Near Coal Tipper	69.5	<70 dB(A)
	Fiber Main Gate	52.6	<70 dB(A)
	Fiber Material Gate	59.8	<70 dB(A)

Note:

TWA: Time Weighted Average.

Area Code	Category of Area/Zone	Limit in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40



Authorized By
Technical Manager

Head Office: 607, Mauryansh Elanza, Shyamal Cross Road, Satellite, Ahmedabad – 380 015
Contact: +91 99250 44987, 079 – 26760070

ANNEXURE-22
ISO 50001:2011 CERTIFICATE



By Royal Charter

Certificate of Registration

ENERGY MANAGEMENT SYSTEM - ISO 50001:2011

This is to certify that:

Grasim Industries Limited
(Chemical Division)
Plot No.1,
GIDC Vilayat Industrial Estate
Po – Vilayat, Taluka – Vagra
Dist. – Bharuch 392 012
Gujarat
India

Holds Certificate No:

ENMS 688882

and operates an Energy Management System which complies with the requirements of ISO 50001:2011 for the following scope:

Manufacture of Caustic Soda Lye & Flakes, Liquid Chlorine, Hydrochloric Acid, Aluminium Chloride, Poly Aluminium Chloride (Liquid & Powder), Sodium Hypochlorite, Compressed Hydrogen Gas, Chlorinated Paraffin, Stable Bleaching Powder and Associated Utilities

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2018-03-11

Latest Revision Date: 2018-03-11

Effective Date: 2018-03-11

Expiry Date: 2021-03-10

Page: 1 of 1



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This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](https://www.bsi-global.com/ClientDirectory).

Printed copies can be validated at www.bsi-global.com/ClientDirectory or telephone +91 11 2692 9000.

Further clarifications regarding the scope of this certificate and the applicability of ISO 50001:2011 requirements may be obtained by consulting the organization. This certificate is valid only if provided original copies are in complete set.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.

Annexure-23**CCA Compliance Report**

CCA of the board vide Order No. AWH-98281 dated 29/12/2018 with amendment vide letter No. GPCB/BRCH-B/CCA-70-A(5)/ID-41279/506831 dated 16/05/2019 with amendment vide letter No. GPCB/BRCH-B/CCA-70-A(6)/ID-41279/526734 dated 13/11/2019 valid up to 02/03/2024

No.	Conditions	Compliance Report
1.	Consent Order No. AWH-98281 dated 29/12/2018	Noted
2.	The consent under Water Act-1974 shall be valid up to 02/03/2024. The consent under Air Act-1981, Authorization under Environment (Protection) Act, 1986 shall be valid up to 02/03/2024 to operate chlorine vaporizer and transferring pipeline from M/s. Grasim Industries Ltd. (Chemical Division) plot no. 1 to neighbouring industry M/s. Jubilant Infrastructure Ltd. located at Vilayat GIDC and operating industrial plan for manufacture of the following products:	We are manufacturing products as per granted CCA of the board.

Products	Caustic Soda Lye	Hydrogen	Liquid Chlorine / Sodium Hypo Chlorite / Hydro Chloric Acid	Poly Aluminium Chloride	Chlorinated Paraffin Wax	Aluminium Chloride	Stable Bleaching Powder
As per CCA of the board	365000 MT/Annum	102200000 NM ³ /Annum	328500 MT/Annum	250000 MT/Annum	70000 MT/Annum	25000 MT/Annum	61000 MT/Annum
Total Production (Tons) - April 2020 to September 2020	149471	4012749	103063	62961	9120	4916	10211

Products	Phosphoric Acid	Calcium Chloride	Captive Power Plant	Aluminium Chloro Hydrate	Calcium Hypochlorite (High Strength Bleach Powder - HSBP)
As per CCA of the board	35000 MT/Annum	87600 MT/Annum	96 MW	5000 MT/Annum	24000 MT/Annum
Total Production (Tons) - April 2020 to September 2020	3693	11605	345	702	1270

3.	SUBJECT TO THE FOLLOWING ADDITIONAL SPECIFIC CONDITIONS RELATED TO ENVIRONMENT CLEARANCE (EC):	
3.1	The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority.	We are producing or carrying out activities for products/process as per EIA Notification dated 14/09/2006 and we have obtained prior Environment Clearance from the SEIAA.
3.2	Applicant shall strictly comply/fulfill with all the conditions stipulated by competent authority in the order of Environmental Clearance issued vide letter No. SEIAA/GUJ/EC/5(f)/96/2014, dated 01/08/2014 & SEIAA/GUJ/EC/5(f)&4(d)/64/2016, dated 29/10/2016	We are complying with all the conditions stipulated by competent authority in the order of Environmental Clearance and also submitting half yearly compliance report to authorities. <i>Grasim Industries Ltd. (Chemical Division)</i>

hase
President & Unit Head
Authorized Signatory

4. CONDITIONS UNDER WATER ACT:	
4.1	<p>The quantity of total water consumption shall not exceed 18525 KL/Day. (Break up as below)</p> <p>a) Domestic: 466 KL/Day</p> <p>b) Industrial: 18059 KL/Day</p>


The quantity of total water consumption is average 296536 KL/Day during April 2020 to September 2020.

Month	Water Consumption		
	Industrial KL/Month	Domestic KL/Month	Total KL/Month
Apr-20	87939	3478	91417
May-20	213637	4458	218095
Jun-20	292107	4982	297089
Jul-20	369090	5234	374324
Aug-20	384174	5487	389661
Sep-20	402745	5882	408627
Min.	87939	3478	91417
Max.	402745	5882	408627
Avg.	291615	4920	296536

4.2	<p>The quantity of total waste water generation shall not exceed 5975.8 KL/Day. (Break up as below)</p> <p>a) Domestic: 352.8 KL/Day</p> <p>b) Industrial: 5623 KL/Day</p> <p>* Total quantity of waste water discharge of the group companies (i.e. Chemical Division + Cellulosic Division + Epoxy Division) shall not exceeds 19.4 MLD at any time.</p>	<p>The quantity of total waste water generation is average 674 KL/Day during April 2020 to September 2020.</p>
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Month	Wastewater Generation		
	Industrial KL/Month	Domestic KL/Month	Total KL/Month
Apr-20	14913	3478	18391
May-20	19406	4458	23864
Jun-20	18889	4982	23871
Jul-20	21748	5234	26982
Aug-20	22884	5487	28371
Sep-20	25615	5882	31497
Min.	14913	3478	18391
Max.	25615	5882	31497
Avg.	20576	4920	25496

4.3	<p>The quantity of the industrial effluent from the manufacturing process and other ancillary industrial operations shall not exceed 5623 KL/Day, and the quantity of domestic waste water (sewage) shall not exceed 352.8 KL/Day.</p>	<ul style="list-style-type: none"> The quantity of industrial effluent is 674 KL/Day during April 2020 to September 2020. The quantity of domestic waste water (sewage) is average 161 KL/Day during April 2020 to September 2020.
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President & Unit Head
Authorized Signatory


Month	Wastewater Generation		
	Industrial	Domestic	Total
	KL/Month	KL/Month	KL/Month
Apr-20	14913	3478	18391
May-20	19406	4458	23864
Jun-20	18889	4982	23871
Jul-20	21748	5234	26982
Aug-20	22884	5487	28371
Sep-20	25615	5882	31497
Min.	14913	3478	18391
Max.	25615	5882	31497
Avg.	20576	4920	25496

4.4	5620 KL/Day of biodegradable industrial effluent shall be sent to ETP for primary, secondary and tertiary treatment. After treatment 5520 KL/Day of the treated effluent shall be sent for disposal into GIDC underground drainage-Dahej Vilayat pipeline/common disposal system up to the sea and 400 KL/Day of the treated effluent shall be reused / recycled / reduced.	<ul style="list-style-type: none"> After primary treatment, our industrial effluent is sent for secondary and tertiary treatment to Fiber Division and then sent for final disposal into GIDC underground drainage-Dahej Vilayat pipeline / common disposal system up to the sea. Average 137 KL/Day of the treated effluent is reused / recycled / reduced in different plant operations during April 2020 to September 2020.
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Month	Treated effluent is reused / recycled
	KL/Month
Apr-20	0
May-20	6713
Jun-20	5402
Jul-20	5014
Aug-20	4826
Sep-20	3017
Min.	0
Max.	6713
Avg.	4162

4.5	@ 3 KL/Day additional waste water generated from the process shall be taken to PAC (Poly Aluminium Chloride) plant for reuse.	@ 3 KL/Day of waste water generated from the Aluminium Chloro Hydrate process is reused into PAC (Poly Aluminium Chloride) plant.
4.6	The quality of treated effluent shall conform to the prescribed standards prior to disposal into GIDC sewer line-Dahej Vilayat pipeline/common disposal system up to the sea for final disposal at NIO designated point.	<ul style="list-style-type: none"> We are conforming the GPCB prescribed standards for treated effluent prior disposal. Treated effluent quality is summarized as per below table:

For Crazim Industries Ltd.
(Chromite Division)


President & Unit Head
Authorized Signatory

Month	FINAL TREATED EFFLUENT									
	pH	Temp.	TSS	Oil & Grease	Fluoride	Sulphide	Amm. N as N	Copper	Zinc	BOD
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB limit	6.5-8.5	<40	100	10	20	5	50	3	15	100
Apr-20	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--
Jun-20	7.31	31	24	BDL	1.3	1.2	15.5	BDL	1.599	34
Jul-20	7.41	29	40	BDL	1.74	BDL	26.1	0.241	0.338	62
Aug-20	7.42	30	16	BDL	1.1	1.4	14.1	BDL	1.308	38
Sep-20	7.15	29	14	BDL	5.4	BDL	12.3	BDL	0.082	30
Min	7.2	29.0	14.0	0.0	1.1	1.2	12.3	0.2	0.1	30.0
Max	7.4	31.0	40.0	0.0	5.4	1.4	26.1	0.2	1.6	62.0


Month	FINAL TREATED EFFLUENT									
	COD	Total Res Cl2	Arsenic	Mercury	Hexavalent Chromium	Total Chromium	Lead	Cadmium	Nickel	Cyanide
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB limit	250	1	0.2	0.01	1	2	1	2	5	0.2
Apr-20	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--
Jun-20	118.6	BDL	BDL	BDL	BDL	0.051	BDL	0.032	0.192	BDL
Jul-20	187.6	BDL	BDL	BDL	0.059	0.464	BDL	BDL	0.155	BDL
Aug-20	132.6	BDL	BDL	BDL	BDL	BDL	BDL	0.026	0.142	BDL
Sep-20	96.2	BDL	BDL	BDL	BDL	BDL	BDL	0.004	0.045	BDL
Min	96.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Max	187.6	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.2	0.0

Month	FINAL TREATED EFFLUENT					
	Phenolic Comp	Selenium	Mn	Iron	Vanadium	Bio Assay Test
Unit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
GPCB limit	5	0.05	2	3	0.2	90% survival of fish in 96 hrs in 100% effluent
Apr-20	--	--	--	--	--	--
May-20	--	--	--	--	--	--
Jun-20	0.65	BDL	BDL	1.326	BDL	90% survival of fish in 96 hrs
Jul-20	0.77	BDL	BDL	2.139	BDL	90% survival of fish in 96 hrs
Aug-20	0.37	BDL	BDL	1.241	BDL	90% survival of fish in 96 hrs
Sep-20	BDL	BDL	BDL	BDL	BDL	90% survival of fish in 96 hrs
Min	0.4	0.0	0.0	1.2	0.0	0.0
Max	0.8	0.0	0.0	2.1	0.0	0.0

For Grasim Industries Ltd.
(Chemical Division)





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4.7	The unit shall affix of water meters as per Section 4 (I) of the Water (Prevention and Control of Pollution Cess Act) - 1974 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the industry until the contrary is proved.	We have installed Water Meter at the inlet. Logbook is maintained to record the water consumption.
4.8	SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS UNDER WATER ACT:	
4.8.1	Applicant shall be a member of Dahej CETP as & when come up and sent its industrial waste water, if required.	We shall become a member of Dahej CETP as & when required.
4.8.2	The effluent shall be stripped off, of VOC's in a closed system before further treatment into ETP.	We shall strip off VOC's if required. Our effluent does not contain VOC's.
4.8.3	Unit shall provide treated effluent holding facility for at least 48 hrs, having vertical tank design preferably.	<p>We have provided treated effluent holding facility for 48 hrs.</p> 
4.8.4	Applicant shall carry out Bio Assay Toxicity test for the treated waste water and same shall be submitted to the GPCB.	<ul style="list-style-type: none"> Bio Assay Toxicity test for the treated waste water is being carried out by the Unistar Environment & Research lab Pvt. Ltd. Bio Assay Toxicity test for the treated waste water report is summarized as per below table:

Month	FINAL TREATED EFFLUENT
	Bio Assay Test
Unit	--
GPCB limit	90% survival of fish in 96 hrs in 100% effluent
Apr-20	--
May-20	--
Jun-20	90% survival of fish in 96 hrs
Jul-20	90% survival of fish in 96 hrs
Aug-20	90% survival of fish in 96 hrs
Sep-20	90% survival of fish in 96 hrs
Min	0.0
Max	0.0
GPCB limit	90% survival of fish in 96 hrs in 100% effluent


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4.8.5	Unit shall install continuous monitoring as well as alarm system for parameters of treated effluent, such as pH meter, TOC analyzer, magnetic flow meter along with totalizer and recorder at the final outlet of factory drain/pipe of ETP. Records of the same shall be maintained invariably by the unit and shall be submitted to GPCB every month.	Online Monitoring System for parameters of treated effluent, such as pH meter, TSS Meter and flow meter along with totalizer and recorder at the final outlet are installed and records of the same are maintained regularly.									
4.8.6	Applicant shall ensure & undertake on Rs. 100 stamp paper that it has one & only one outlet in GIDC U/G drain.	We have taken undertaken for one & only one outlet in GIDC U/G drain.									
4.8.7	Name of the unit & technical relevant details shall be prominently written / printed on mouth of pipeline into GIDC U/G drain & shall be made visible to inspecting officials.	<ul style="list-style-type: none"> We have displayed the unit & technical relevant details on mouth of pipeline into GIDC U/G drain. 									
5.	CONDITIONS UNDER AIR ACT:										
5.1	The following shall be used as fuel in Boiler/D. G. Set as following rates:	Average coal consumption for April 2020 to September 2020 is 1532 MT/Day.									
	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Fuel</th><th>Total Quantity</th></tr> </thead> <tbody> <tr> <td>1</td><td>Coal</td><td>72000 MT/Month</td></tr> <tr> <td>2</td><td>HSD</td><td>1000 Lit/Hr</td></tr> </tbody> </table>	Sr. No.	Fuel	Total Quantity	1	Coal	72000 MT/Month	2	HSD	1000 Lit/Hr	
Sr. No.	Fuel	Total Quantity									
1	Coal	72000 MT/Month									
2	HSD	1000 Lit/Hr									

Month	Coal MT/Month
Oct-19	6712
Nov-19	23149
Dec-19	35891
Jan-20	47307
Feb-20	53854
Mar-20	49435
Min.	6712
Max.	53854
Avg.	36058

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5.2	The flue gas emission through stack attached to Boiler / D. G. Set shall conform to the following standards.				<ul style="list-style-type: none">• We are conforming the GPCB prescribed standards for flue gas emission.• Flue gas stack emission report is summarized as per below table:	
	Stack No.	Stack attached to	Stack height in meters	APCM		Parameter & Permissible limit
	1	Boiler 1 & 2	125	ESP & Low NO _x burner		PM - 150 mg/Nm ³
	2	Boiler 3 & 4	125	ESP & Low NO _x burner		SO _x - 100 ppm NO _x - 50 ppm
	3	D. G. Sets (1875 KVA - 4 Nos.)	36	--		
	4	D. G. Sets (750 KVA - 3 Nos.)	11			
	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

Month / Parameters	Power Plant Stack 1			Power Plant Stack 2		
	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)
Apr-20	--	--	--	--	--	--
May-20	--	--	--	--	--	--
Jun-20	68	77	44	53	71	40
Jul-20	73	75	40	62	81	42
Aug-20	78	82	42	69	79	40
Sep-20	66	81	40	62	88	44
Min	66	75	40	53	71	40
Max	78	82	44	69	88	44
Avg.	71.3	78.8	41.5	61.5	79.8	41.5

Note: Due to Covid-19 pandemic, power plant was shut down and as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted in April 2020 and May 2020.

Month / Parameters	D. G. Set-1			D. G. Set-2			D. G. Set-3		
	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)
Apr-20	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--
Aug-20	48.75	6.32	3.96	45.6	5.42	4.12	50.12	6.38	4.12
Sep-20	52.69	7.56	5.97	43.68	7.22	6.02	53.77	6.39	4.15
Min	48.75	6.32	3.96	43.68	5.42	4.12	50.12	6.38	4.12
Max	52.69	7.56	5.97	45.6	7.22	6.02	53.77	6.39	4.15
Avg.	50.7	6.9	5.0	44.6	6.3	5.1	51.9	6.4	4.1

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Month / Parameters	D. G. Set-4			D. G. Set-5		
	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)	SPM (mg/Nm ³)	SO ₂ (ppm)	NO _x (ppm)
Apr-20	--	--	--	--	--	--
May-20	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--
Aug-20	51.11	4.32	3.21	43.79	6.32	5.12
Sep-20	48.72	5.23	3.87	47.22	4.45	3.87
Min	48.72	4.32	3.21	43.79	4.45	3.87
Max	51.11	5.23	3.87	47.22	6.32	5.12
Avg.	49.9	4.8	3.5	45.5	5.4	4.5

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

5.3

The process emission through various stacks/vent of reactors, process, vessel shall conform to the following standards.

Sr. No.	Stack attached to	Height (M)	APCM	Pollutant & Concentration
1	Sodium Hypo stack 1 (Caustic Plant)	35	Alkali Scrubber	Cl ₂ - 9 mg/Nm ³
2	HCl stack 1 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	HCl - 35 mg/Nm ³
3	HCl stack 2 (Caustic Plant)	35		
4	Poly Aluminium Chloride liquid	35	Water scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
5	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
6	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
7	Stable Bleaching Powder Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
8	Phosphoric Acid	35	Water Scrubber	HCl - 20 mg/Nm ³ HF - 6 mg/Nm ³
9	Calcium Chloride	35	Water Scrubber	HCl - 20 mg/Nm ³
10	Sodium Hypo stack 2 (Caustic Plant)	35	Alkali Scrubber	Cl ₂ - 9 mg/Nm ³
11	HCl stack 3 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	HCl - 35 mg/Nm ³
12	HCl stack 4 (Caustic Plant)	35		
13	Poly Aluminium Chloride liquid	35	Water Scrubber System	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
14	Poly Aluminium Chloride powder	35	3 stage Water Scrubber	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
15	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
16	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
17	Stable Bleaching Powder Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm ³ Cl ₂ - 9 mg/Nm ³
18	Vent attached to reactor	35	--	H ₂ gas *
19	Vent attached to dryer-1 (HSBP)	21	Bag Filter	PM < 150 mg/Nm ³
20	Vent attached to dryer-2 (HSBP)	21	Bag Filter	PM < 150 mg/Nm ³
21	Vent attached to reaction vessel-1 (HSBP)	21	Water / Caustic Scrubber	Cl ₂ < 5 mg/Nm ³
22	Vent attached to reaction vessel-2 (HSBP)	21	Water / Caustic Scrubber	Cl ₂ < 5 mg/Nm ³


* Industry shall take all precautions so that there shall be no escape of H₂ gas.

• We are conforming the GPCB prescribed standards for process emission.

• Process emission report is summarized as per below table:


• 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.

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	Sodium Hypo Stack-1	Sodium Hypo Stack-2	HCl Stack-1	HCl Stack-2	HCl Stack-3	HCl Stack-4	PAC-Liquid		PAC-Powder-1	
Month / Parameters	Cl ₂	Cl ₂	HCl	HCl	HCl	HCl	Cl ₂	Cl ₂	Cl ₂	HCl
Unit	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
GPCB Limit	9	9	35	35	35	35	9	20	9	20
Apr-20	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--	--
Aug-20	0.56	0.48	3.96	4.12	4.06	3.24	0.63	5.23	0.55	5.09
Sep-20	0.62	0.48	4.42	5.12	5.22	4.21	0.52	3.22	0.66	4.39
Min	1.18	0.96	8.38	9.24	9.28	7.45	1.15	8.45	1.21	9.48
Max	0.56	0.48	3.96	4.12	4.06	3.24	0.52	3.22	0.55	4.39
Avg.	0.62	0.48	4.42	5.12	5.22	4.21	0.63	5.23	0.66	5.09

	PAC-Powde-2		CPW Plant		ALCP		SBP		PA	
Month / Parameters	Cl ₂	Cl ₂	Cl ₂	HCl	Cl ₂	HCl	Cl ₂	HCl	HCl	HF
Unit	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
GPCB Limit	9	20	9	20	9	20	9	20	20	6
Apr-20	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--	--
Aug-20	0.39	4.56	0.46	4.86	0.74	5.06	0.68	3.52	0.69	2.69
Sep-20	0.4	5.33	0.42	4.32	0.44	3.96	0.63	4.12	0.12	4.12
Min	0.79	9.89	0.88	9.18	1.18	9.02	1.31	7.64	0.81	6.81
Max	0.39	4.56	0.42	4.32	0.44	3.96	0.63	3.52	0.12	2.69
Avg.	0.4	5.33	0.46	4.86	0.74	5.06	0.68	4.12	0.69	4.12

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

5.4	The applicant shall install and operate a comprehensive adequate air pollution control measures in order to achieve prescribed below.	<ul style="list-style-type: none"> Adequate Air Pollution Control Equipment are installed to achieve prescribed standards. Air Pollution Control Equipment are installed as per CCA.
5.5	Stack monitoring facilities like port-hole, platform/ladder etc. shall be provided with stacks/vents chimney in order to facilitate sampling gases being emitted into the atmosphere.	<p>Port-hole, platform/ladder etc. stack monitoring facilities have been provided to facilitate sampling.</p> <p>For Grasim Industries Ltd. (Chemical Division)</p>

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5.6	<p>Ambient air quality within and outside the premises of the unit shall conform National Ambient Air Quality standards notified by MoEF vide notification dated 16/11/2009.</p>	<ul style="list-style-type: none"> There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat). Also there are 4 nos. of ambient air quality monitoring stations inside the premises. Ambient Air Monitoring Report is summarized as per below table:
-----	--	--

	Nr. SBP						Nr. PAC					
Month / Parameters	PM10	PM2.5	SOx	NOx	Cl2	HCl	PM10	PM2.5	SOx	NOx	Cl2	HCl
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
GPCB Limit	100	60	80	80	100	200	100	60	80	80	100	200
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--	--	--	--
Aug-20	57.85	28.63	27.56	23.22	BDL	BDL	57.45	24.56	20.03	18.96	BDL	BDL
Sep-20	67.82	37.51	34.10	21.41	BDL	BDL	54.22	30.22	19.63	16.52	BDL	BDL
Min	57.85	28.63	27.56	21.41	0	0	54.22	24.56	19.63	16.52	0	0
Max	67.82	37.51	34.1	23.22	0	0	57.45	30.22	20.03	18.96	0	0

	Nr. Main Gate						Nr. Marketing					
Month / Parameters	PM10	PM2.5	SOx	NOx	Cl2	HCl	PM10	PM2.5	SOx	NOx	Cl2	HCl
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
GPCB Limit	100	60	80	80	100	200	100	60	80	80	100	200
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	--	--	--	--	--	--	--	--	--	--	--	--
Jul-20	--	--	--	--	--	--	--	--	--	--	--	--
Aug-20	56.39	27.55	22.12	16.33	BDL	BDL	55.22	24.23	24.78	19.63	BDL	BDL
Sep-20	50.12	27.46	24.55	18.69	BDL	BDL	52.32	26.98	26.88	18.36	BDL	BDL
Min	50.12	27.46	22.12	16.33	0	0	52.32	24.23	24.78	18.36	0	0
Max	56.39	27.55	24.55	18.69	0	0	55.22	26.98	26.88	19.63	0	0

Note: Due to Covid-19 pandemic, as per Govt. guideline, inter district movement was restricted hence third party monitoring was not conducted from April 2020 to July 2020.

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Month	DEROL						SARNAR					
	SPM	SPM	SO2	NO2	H2S	CS2	SPM	SPM	SO2	NO2	H2S	CS2
	PM10	PM2.5					PM10	PM2.5				
	µg/m3						µg/m3					
Norms ->	100	60	80	80	150	100	100	60	80	80	150	100
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	78	27	17	19	BDL	BDL	73	21	15	19	BDL	BDL
Jul-20	74	26	16	20	BDL	BDL	70	28	17	20	BDL	BDL
Aug-20	78	26	18	22	BDL	BDL	80	31	19	25	BDL	BDL
Sep-20	81	28	19	25	BDL	BDL	76	25	17	22	BDL	BDL
Min	78	24	15	17	0	0	78	21	16	20	0	0
Max	96	33	23	28	0	0	88	32	31	36	0	0

Month	ARGAMA						VILAYAT					
	SPM	SPM	SO2	NO2	H2S	CS2	SPM	SPM	SO2	NO2	H2S	CS2
	PM10	PM2.5					PM10	PM2.5				
	µg/m3						µg/m3					
Norms ->	100	60	80	80	150	100	100	60	80	80	150	100
Apr-20	--	--	--	--	--	--	--	--	--	--	--	--
May-20	--	--	--	--	--	--	--	--	--	--	--	--
Jun-20	71	22	16	21	BDL	BDL	68	18	18	29	BDL	BDL
Jul-20	73	25	15	18	BDL	BDL	69	23	16	19	BDL	BDL
Aug-20	71	24	17	21	BDL	BDL	72	25	19	23	BDL	BDL
Sep-20	82	31	20	24	BDL	BDL	76	28	17	21	BDL	BDL
Min	77	22	22	25	0	0	76	21	19	24	0	0
Max	94	28	26	37	0	0	92	27	28	34	0	0

Note: Due to Covid-19 pandemic, as per Govt. guideline, Inter district movement was restricted hence third party monitoring was not conducted in April 2020 to May 2020.

5.7	The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.	All the Air Pollution Control equipment and industrial plant is operated very efficiently and continuously to conforms the given standards.
5.8	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 in the conditions.	Noted
5.9	The applicant 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 numbers such as S-1, S-2 etc. and these shall be painted/displayed to facilitate identification.	Port-hole, platform/ladder etc. stack monitoring facilities have been provided to facilitate sampling. For Grasim Industries Ltd. (Chemical Division)

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5.11	SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS UNDER AIR ACT:				
5.10	All measures for the control of environmental pollution shall be provided before commencing production.		Before the plant operation we have taken all measures for the control of environmental pollution.		
5.11.1	Total control of odour nuisance from the plant premises, shall be achieved & maintained by the applicant continuously.		We have provided Chlorine and HCl sensors at different plant locations to control the odour nuisance.		
5.11.2	The applicant shall install continuous / online monitoring system on the stacks for the parameters such as SO ₂ , NO _x , PM, HCl, Cl ₂ etc. and the same shall be connected to GPCB server.		Online Monitoring system has been installed for 2 nos. Boiler Stacks of Power Plant, 2 nos. of Sodium Hypo Stack of Caustic Soda Plant and 4 nos. HCl Stacks of Caustic Soda plant and all the stacks are connected to GPCB & CPCB server.		
6.	AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (see rule 3 (c) & 5 (c))				
6.1	Number of authorization: AWH-98281 Date of Issue: 29/12/2018			Noted	
6.2	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 Estate, Tal: Vagra, Dist: Bharuch.			Collection, Storage, Transportation and disposal of wastes is being carried out as per granted CCA.	
	Sr. No.	Type of Waste	Qty. MT/Year	Catego ry	Disposal
	Hazardous Waste				
	1	Chemical sludge from Waste water treatment	40160	35.3	Collection, storage, transportation & disposal at TSDF of BEIL
	2	Spent Carbon	0.33	36.2	Collection, storage, transportation & disposal at TSDF of BEIL
	3	Used Spent Oil	100.5 KL	5.1	Collection, storage, transportation & disposal by selling to registered re-refiners
	4	Spent ion exchange resin	0.33	35.2	Collection, storage, transportation & disposal at TSDF of BEIL
	5	Discarded container /	1700 Nos.	33.1	Collection storage, transportation, reuse or disposal by selling to vendors
		Bags / Liners	25		
	6	Incinerable Waste	37	36.1	Collection, storage, transportation, disposal at CHWIF site
	7	Spent Acid (HCl from CPW plant)	115500	B15	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.
	8	Spent Acid (Dil. Sulphuric Acid from Chlor-alkali plant)	7500	B15	Collection, storage, transportation through pipeline and disposal by selling to end user.
	9	Bleaching Liquid (consists of 3% Hypo, 10% CaCl ₂ , 65% to 75% water)	60000	—	Collection, storage, transportation and disposal by selling to end user.
	10	Sodium Chloride (consist of 90% NaCl)	6000	--	Collection, storage, transportation and disposal by selling to end user or TSDF site

For Grasim Industries Ltd.
(Chemical Division)

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(Chemical Division)


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Non-Hazardous Waste					
1	Residue/sludge & filter cake	6066	--	Collection, storage, transportation & disposal at TSDF of BEIL	
2	Fly Ash	86400	--	Collection, storage, transportation, disposal by selling to brick manufacturing as per fly ash notifications/rules.	

Hazardous Waste										
	Chemical sludge from Waste water treatment		Used Oil		Spent Resin		Spent Carbon		Discarded Containers	
Month / Parameters	Generation	Disposal	Generation	Disposal	Generation	Disposal	Generation	Disposal	Generation	Disposal
CCA Qty	40160 MT (35.3)		100 KL (5.1)		0.33 MT (35.2)		0.33 MT (36.2)		1705 Nos. (33.1)	
Apr-20	563.74	773.99	0	0	0	0	0	0	0	0
May-20	904.68	1155.43	0	0	0	0	0	0	0	0
Jun-20	1548.65	1095.72	0	0	0	0	0	0	0	0
Jul-20	1507.9	824.85	0	0	0	0	0	0	0	0
Aug-20	1207.9	627.25	0	0	0	0	0	0	0	0
Sep-20	1688.9	243.5	0	0	0	0	0	0	0	0
Total	7422	4721	0.00	0.00	0	0	0	0	0	0
Disposed to	To TSDF M/s. BEIL, Dahej		To A-One Lube Refinery		To TSDF M/s. BEIL, Dahej		To TSDF M/s. BEIL, Dahej		Sold to Vendors	

Hazardous Waste						
	Incinerable Waste		Spent Acid (HCl from CPW plant)		Spent Acid (Dil. Sulphuric Acid from Chlor-alkali plant)	
Month / Parameters	Generation	Disposal	Generation	Disposal	Generation	Disposal
CCA Qty	37 MT (36.1)		115500 MT (B15)		7500 MT (B15)	
Apr-20	0	0	0	0	0	74
May-20	0	0	695	0	272	108
Jun-20	0	0	2556	0	327	248
Jul-20	0	0	3120	0	389	407
Aug-20	0	0	2755	0	399	442
Sep-20	0	0	4314	0	416	435
Total	0	0	13440	0	1803	1714
Disposed to	To TSDF M/s. BEIL, Dahej		Disposal by consuming in-house in manufacturing of Poly Aluminium Chloride and Phosphoric Acid and selling to end user		Disposal by selling to end user	

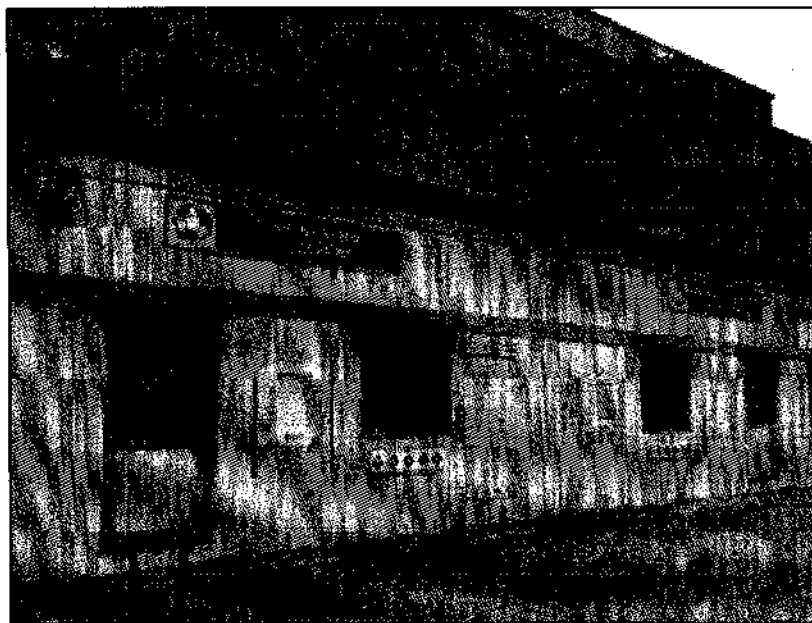
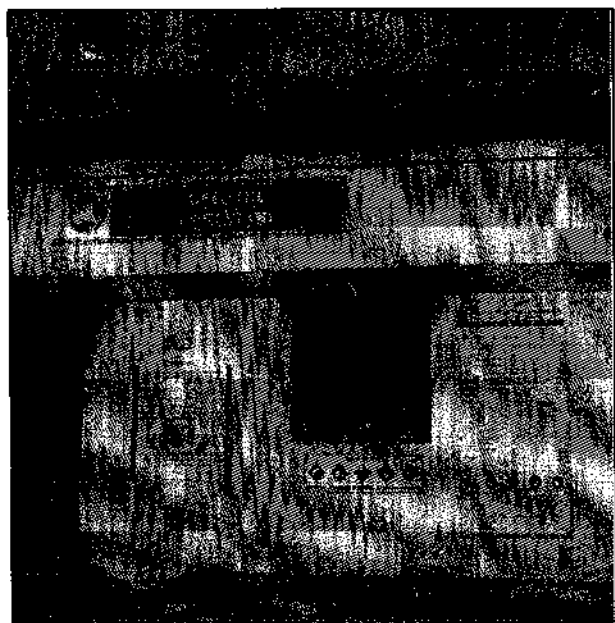
Hazardous Waste				
	Bleaching Liquid (consists of 3% Hypo, 10% CaCl ₂ , 65% to 75% water)		Sodium Chloride (consist of 90% NaCl)	
Month / Parameters	Generation	Disposal	Generation	Disposal
CCA Qty	60000 MT (--)		6000 MT (--)	
Apr-20	0	394	0	0
May-20	0	170	0	0
Jun-20	1510	1144	0	0
Jul-20	1675	1615	0	0
Aug-20	1685	1727	0	0
Sep-20	1076	1688	0	0
Total	5946	6738	0	0
Disposed to	Disposal by selling to end user		Disposal by selling to end user or TSDF site	


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Non-hazardous Waste				
Fly Ash				
Month / Parameters	Generation	Disposal		Balance
CCA Qty	86400 MT	Bricks / Road Manufacturing	Cement Manufacturing	
Apr-20	1234	0.00	847.45	4102.05
May-20	4708	382.17	3989.55	4438.63
Jun-20	7170	470.41	5213.31	5924.50
Jul-20	5156	0.00	2335.85	8744.86
Aug-20	7711	1545.86	5002.62	9907.60
Sep-20	6616	1543.86	6147.67	8831.89
Total	32595	3942	23536	41950
Disposed to	100 % Utilization achieved			

6.3	The authorization is granted to operate a facility for collection, storage, within the factory premises transportation and ultimate disposal of Hazardous wastes as mentioned in above condition no. 6.2.	We are complying the condition.
6.4	The authorization shall be in force for a period up to date 02/03/2024.	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
6.6	Unit shall provide separate, adequate storage areas for raw materials, products, each type of hazardous wastes, including for containers containing fresh / used / waste etc.	Separate storage area for raw materials, products, each type of hazardous wastes has been provided.

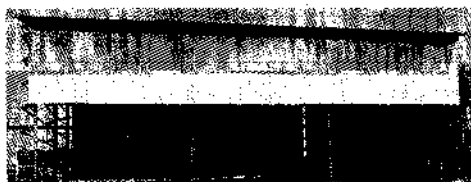
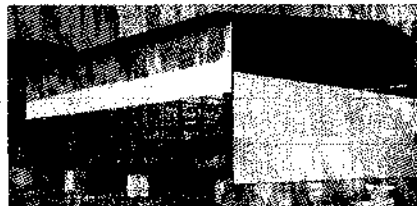
Waste Storage Area



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6.7	Unit shall cover the open portion on both sides of the hazardous waste storage area by providing GI sheets from the top to the bottom as well as provide slanted sheets in the front portion to prevent ingress of water from outside.	We have covered open portion of hazardous waste storage area from the top to the bottom to prevent ingress of water from outside.
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Sludge Storage area



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.	We are complying the condition.
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.	We are complying the condition.
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.	We have developed Onsite Emergency Plan and implemented mitigation measures accordingly. For Grasim Industries Ltd. (Chemical Division)

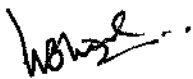
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7.6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environment Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Noted
7.7	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	We shall take prior permission of the Board as and when required.
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.	We are complying with the condition.
7.11	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	We are neither importing nor exporting waste.
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 30 th for the period ensuring 31 st March of the year.	Annual return is filled by June 30 th every year.
8.	GENERAL CONDITIONS:	
8.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	We have noted to inform GPCB, in case of change in personnel, equipment or working conditions as mentioned in the consents order.
8.2	Applicant shall also comply with the general conditions given in Annexure-I attached herewith (No. 1 to 38).	The general conditions given in Annexure-I shall be complied.
8.3	The applicant shall not carry out any activities for which required clearances are not obtained.	We are only carrying out activities for which we have obtained prior environment clearance.
8.4	If it is established by any competent authority that the damages caused due to their industrial activities to any person or his property, in that case they are obliged to pay the compensation as determined by competent authority.	Noted For Grasim Industries Ltd. (Chemical Division)


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8.5	Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.	Preventive maintenance schedule is being followed.
8.6	Unit shall keep accurate records of their water consumption and wastewater generation, discharge, quantity of each product manufactured and consumption of electricity on day-to-day basis and shall be required to submit the compiled record of each month of GPCB on or before seventh day of the succeeding month. Separate logbooks shall be maintained for recording all the necessary data.	We are maintaining the water consumption and wastewater generation, discharge, quantity of each product manufactured and consumption of electricity on day-to-day basis.
8.7	Magnetic flow meters shall be installed at the various stages of inlet & outlet of pipeline to measure the quantity of effluent at each stage of conveyance.	We have provided flow meters installed at the various stages of inlet & outlet of pipeline.

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(Chemical Division)


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ANNEXURE-24
DETAILS OF CSR ACTIVITIES

CSR Initiatives	
Sr. No.	Activities
1	Started Skill development training: A. Tailoring class at Saykha Village (Total Ben. 22 Girls & women) B. Beautician Class at Vorasamni Village (Total Ben. 18 Girls & women) C. Handicraft Class at Tralshi Village (Total Ben. 24 Girls & women)
2	Exposer visit for Valsad & Navsari Modal farm & Agricultural University – Farmers club (Total Ben. 52 farmers nearby villages) Organize by our partner NGO – BAIF under Krushi Project.
3	Education tour – Bhersam Primary School (Kavi Comeboi)
4	Participation in Gujarat Foundation Day
5	Tree grad distribution (No. of Tree Grad -200 Nearby 11 Villages use for Road side plantation)
6	Malnutrition program – distributed pediasur powder to child Suffering form Malnutrition
7	Digital Class Room Under Smart School Project- Interactive board for Transforming the educational system, first phase of the project cover 3 Primary school (Vilayat, Argama & Vorasamni Village)
8	Kany Kelavani & Shala Pravesch Mohatsav- Enrollment awareness programed (cover 10 Primary school)
9	Promoting Sports: providing 10 sports track suits nearby 10 school (Total-100) for Children's Sports activity
10	Distribution of Stickers:The sticker's are multi colours with a message – The message of Water saving/ Environment/ Cleanness etc. subject of Personal Hygiene with photograph, the stickers are used in front page of book. By doing so we want to change the behaviour of student.
11	Celebration World Environment Day (Total Sowing tree plant -101)
12	Participate CSR Live Week at Mumbai
13	Lokarpan New Anganwadi - Saladra
14	Krushi Project: Tree plantation on farmers field 7000 Fruit Plant
15	Tree plantation (No. of Tree. 3000 Forest plant)
16	EYE Camp Bhersm
17	Skill Training Jewelry making done at Derol village
18	Scholarship to girls students for Secondary Education
19	35 Nos. Individual Household toilet at Navi Nagri – Argama
20	Drinking Water Pipeline work at Dayadra

ANNEXURE-25

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