



Date: 25/05/2024

Ref: GRCD/GPCB/2024-25/03

To,

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

Subject: Compliance Report of Environment Clearances (EC) for the period October 2023 to March 2024

Dear Sir,

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

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

We hope you will find the same in order.

Thanking You
Yours Faithfully,

For, **M/s. Grasim Industries Limited (Chemical Division)**


Authorized Signatory

Grasim Industries Limited Unit : Chemical Division

Correspondence Plant & Address :

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

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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)



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: October 2023 to March 2024

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

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6	Compliance Status for Environmental Clearance of EC 2021
7	Annexures

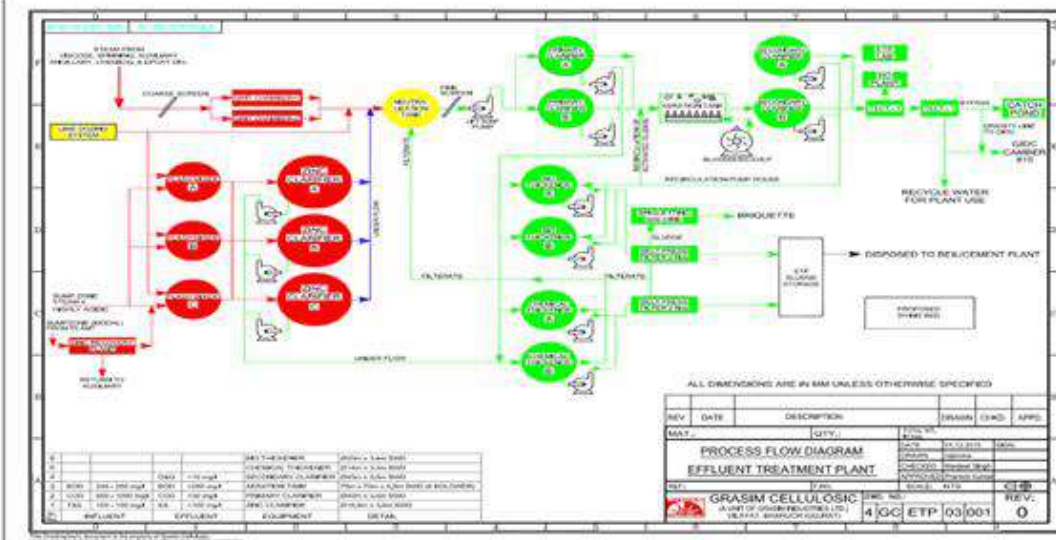

List of Annexure


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

Sr. No.	EC Conditions	Compliance status																									
	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, CS2, Sulphuric Acid, Sodium Sulfate and Captive Power Plant at Vilayat Vagra. In addition to above products, it is now proposed to expand the project by putting Chlor-alkali unit as a backward integration of power plant from 25 MW to 85 MW. Bipolar membrane cell technology shall be adopted for the Chlor-alkali unit. The applicant has applied for Expansion following product.	<ul style="list-style-type: none">NotedCopy of Environment Clearance dated 30/05/2011 & name change letter dated 22/03/2012 are attached as Annexure-1.																									
	<table><tr><th>Products</th><th>Caustic Soda Lye</th><th>Liquid chlorine / Hydrochloric Acid</th><th>Hydrogen</th><th>Chlorosulphonic Acid</th><th>Sulphuric Acid</th><th>Carbon Disulphide</th></tr><tr><td>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</td><td>219000 TPA (600 TPD)</td><td>197100 TPA (540 TPD)</td><td>61320000 NM3/Year (168000 NM3/Day)</td><td>73000 TPA (200 TPD)</td><td>36500 TPA (100 TPD)</td><td>31025 TPA (85 TPD)</td></tr><tr><td>Total Production (Tons) - Oct 2023 to Mar 2024</td><td>Nil</td><td>Nil</td><td>Nil</td><td>Nil</td><td>Nil</td><td>Nil</td></tr></table>	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 NM3/Year (168000 NM3/Day)	73000 TPA (200 TPD)	36500 TPA (100 TPD)	31025 TPA (85 TPD)	Total Production (Tons) - Oct 2023 to Mar 2024	Nil	Nil	Nil	Nil	Nil	Nil					
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 NM3/Year (168000 NM3/Day)	73000 TPA (200 TPD)	36500 TPA (100 TPD)	31025 TPA (85 TPD)																					
Total Production (Tons) - Oct 2023 to Mar 2024	Nil	Nil	Nil	Nil	Nil	Nil																					
	<table><tr><th>Products</th><th>Liquid Poly Aluminum Chloride</th><th>Stable Bleaching Powder</th><th>Chlorinated Paraffin</th><th>Aluminum Chloride</th><th>Power Generation</th></tr><tr><td>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</td><td>146000 TPA (400 TPD)</td><td>36500 TPA (100 TPD)</td><td>36500 TPA (100 TPD)</td><td>14600 TPA (40 TPD)</td><td>96 MW</td></tr><tr><td>Total Production</td><td>Nil</td><td>Nil</td><td>Nil</td><td>Nil</td><td>685672.67</td></tr></table>	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	Nil	Nil	Nil	Nil	685672.67								
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Total Production	Nil	Nil	Nil	Nil	685672.67																						

Sr. No.	EC Conditions		Compliance status			
	(Tons) - Oct 2023 to Mar 2024					MWh
	Average Production (Tons) - Oct 2023 to Mar 2024	Nil	Nil	Nil	Nil	57139.39 MWh
	* Note: Production data for the period October 2023 to March 2024 is provided on Page no. 1-2 in EC compliance of EC vide no. SEIAA/GUJ/EC/5(f)&4(d)/642/2016 dated 29 th Oct 2016.					
A	Specific Conditions					
1	The Unit shall obtain requisite permission from PESO, Nagpur for storage of Chlorine, Hydrogen etc. before commissioning of the project.		<ul style="list-style-type: none">CompliedWe have obtained licenses from Petroleum & Explosives Safety Organization (PESO) for Chlorine, Hydrogen and Class B chemicals before commissioning of the project. Licenses are attached as Annexure-2.			
	PESO License No.	Description	Date of Issue/ Renewal/ Amendment	Validity		
	S/HO/GJ/03/1445 (S52646)	License to store compressed gas in pressure vessel or vessels (Chlorine Bullet)	05-09-2022	30-09-2027		
	G/HO/GJ/05/733 (G31658)	License to Fill Compressed Gas in Cylinders – Chlorine	07-10-2019	30-09-2028		
	G/HO/GJ/06/724 (G31658)	License to Store Compressed Gas in Cylinders – Chlorine	07-10-2019	30-09-2028		
	A/G/WC/GJ/GCT/11(G58778)	Periodic examination and testing of chlorine seamless cylinders	18-10-2023	30-09-2032		
	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	06-10-2023	31-12-2033		
	G/WC/GJ/06/1803 (G34271)	License to Store Compressed Gas in Cylinders-ALCP Plant	27-07-2022	30-09-2033		
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.		<ul style="list-style-type: none">CompliedNo ground water is used for the project and entire water requirement is met through GIDC supply only.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 6th December 2006	15.60 MLD	12.48 MLD		
	2	GIDC/SE/CG/BRH/1236 Dated 29th December 2016	25 MLD	19.4 MLD		
	3	GIDC/ENG/CE/34 Dated 9th October 2017	55-56 MLD	--		
	Month		Water Consumption (KL/M)			
	Oct 23		466025			
	Nov 23		442649			
	Dec 23		470182			
	Jan 24		445804			
	Feb 24		435856			
	Mar 24		620399			
	Total		2880915			
3	The Industrial effluent generation from the project shall not exceed 25600 KLD after the proposed expansion.		<ul style="list-style-type: none">CompliedThe Industrial effluent generation does not exceed 25600 KLD.			
	Month	Industrial effluent (KL/M)				
	Oct 23	89303				
	Nov 23	78624				
	Dec 23	95879				
	Jan 24	86819				
	Feb 24	93063				
	Mar 24	169826				

Sr. No.	EC Conditions	Compliance status	
		Total	613515
4	<p>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.</p>	<ul style="list-style-type: none">• Complied• The industrial effluent is treated in the ETP consisting Zinc Clarifier, tanks (3.0 Nos.), Grit Chambers (3.0 Nos.), Primary Clarifier (2.0 Nos.), Equalization Tank, Biological Reactor, Final Clarifiers (2.0 Nos.) Thickeners (2.0 Nos.) Belt Press (2.0 Nos.) and sludge Dryers (6.0 Nos.).• ETP is operated regularly and efficiently to achieve the prescribed GPCB norms at the ETP outlet.	
			
5	<p>The treated waste water conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal into deep sea.</p>	<ul style="list-style-type: none">• Complied• The treated waste water conforming to the GPCB norms are discharging into GIDC underground pipeline for final disposal to deep sea through GIDC.	
6	<p>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.</p>	<ul style="list-style-type: none">• Complied• We have provided 2 Nos. of guard ponds, each of (L: 90m, B: 60m, SWD: 6.5m) equivalent to 50,000 m3 capacity provided, (suitable for storage of 48 hrs) before discharge of treated effluent into GIDC drain.• As per CCA condition, we have installed Online pH meter, flow meter & TOC meter are provided for monitoring of the treated effluent. <p>Photograph of Guard Pond:</p> 	
7	<p>The domestic waste water generation shall not exceed 800 KLD after the proposed expansion.</p>	<ul style="list-style-type: none">• Complied• The domestic waste water generation does not exceed 800 KLD.	
8	<p>The domestic waste water shall be treated in the adequate STP, the</p>	<ul style="list-style-type: none">• Complied• STP is operated regularly and efficiently to achieve the	

Sr. No.	EC Conditions	Compliance status
	STP shall be operated regularly and efficiently so as to achieve the GPCB norms at the STP outlet.	<p>GPCB norms at the STP outlet.</p> <ul style="list-style-type: none"> We have installed Sewage Treatment Plant for treatment of domestic wastewater on the following specification: Design Capacity of STP: 1080 m3/day. <p>Design Basis: Flow: 1080 m3/day. BOD: 250-270 mg/l. COD: 400-600 mg/l TSS: 400 mg/l pH : 6 - 9</p>
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"> Complied Treated domestic wastewater from STP is utilized for gardening/ plantation within premises after conforming to GPCB prescribed standards. In rainy season, treated domestic water is transferred to the ETP for its discharge into the GIDC underground drain.
10	The Unit shall provide metering facility at the inlet and outlet of the ETP & STP and maintain the record of the same.	<ul style="list-style-type: none"> Complied We have provided metering facility at inlet & outlet of the ETP & STP and maintain the records of the same regularly.
11	Proper logbooks of ETP & STP operation and 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"> Complied Proper logbooks of ETP & STP operation is maintained, quantity of effluent generated & discharge into GIDC drain and utilization in plantation/ gardening is maintained. Readings are maintained and submitted in the Monthly Patrak on GPCB XGN regularly.
12	Regular performance evaluation of the ETP & STP shall be undertaken every year to check its adequacy, through credible institutions like, L. D. College of Engineering, NPC or such other institutions of the similar reputed, and its records shall be maintained.	<ul style="list-style-type: none"> Complied Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained.
13	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run-off, pre-treatment must be done to remove suspended matter.	<ul style="list-style-type: none"> Complied Rainwater is recovered from roof tops and stored in a rain water harvesting well. We have already installed 10 nos. of Rain water harvesting station at nearby villages like, Sachan Village, Saran Village, Saykha Vilalge, Derol, Asmita Vikas Kendra, Rahad Primary school, Ankot Primary school, Smt. M.M.M. Patel vidhyalaya, Pisad primary school, Saladra Primary school. We are exploring more possibilities for rainwater harvesting in nearby area in consultation with a Geo-hydrology expert.
		

Sr. No.	EC Conditions	Compliance status				
						
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>	<ul style="list-style-type: none">• Complied• We are and will be participating financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC.• We have also invested a special amount for a training & development of education program that has been initiated jointly by Paryavaran Vikas Kendra-Rajkot and Paryavaran Mitra Ahmedabad.				
A.2	AIR:					
15	<p>Process emission shall be controlled with the air pollution control equipment (APCE) as mentioned below.</p> <ul style="list-style-type: none">a. Poly Aluminum Chloride Plant - Water scrubber for absorption of HCl vapor.b. Caustic Soda Plant- Water scrubber having bubble cap tray system for absorption of HCl vapors & three tower systems with alkali scrubber for absorption of unreacted chlorine to produce sodium Hypo Chlorite.c. Bleaching Powder Plant, Aluminum Chloride Plant and Chlorinated Paraffin Plant - Alkali scrubbers of absorption of Cl₂ emission.d. Sulphuric Acid Plant- DCDA system in manufacturing and scrubbing system.e. Chlorosulphonic Acid Plant- Acid scrubber for absorption of SO₃ emissions.	<p>Complied</p> <ul style="list-style-type: none">a. We have provided water scrubber for absorption of HCl vapor.b. 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. We have provided Alkali Scrubber for the absorption of Cl₂ emission in Bleaching Powder Plant, Aluminum Chloride Plant & Chlorinated Paraffin Plant.d. 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 project is not implemented in chlor-alkali unit yet.				
16	<p>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.</p>	<ul style="list-style-type: none">• Complied• The Air Pollution Control Equipment (APCE) attached with different stacks are operated efficiently and effectively to achieve the GPCB prescribed norms.• We have provided adequate stack height as per prevailing norms for the process emissions.				
17	<p>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.</p>	<ul style="list-style-type: none">• Not Applicable <p>Chlorosulphonic Acid project is not implemented in chlor-alkali unit yet.</p>				
18	<p>Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 96 MW Power Plant. Two stacks, each of 125 m height shall be provided for the proposed</p>	<ul style="list-style-type: none">• Complied• Coal consumption for the period Oct’ 23 to Mar’ 24 is provided below: <table><tr><th>Month</th><th>Coal (MT/ Month)</th></tr><tr><td>Oct 23</td><td>64623</td></tr></table>	Month	Coal (MT/ Month)	Oct 23	64623
Month	Coal (MT/ Month)					
Oct 23	64623					

Sr. No.	EC Conditions	Compliance status																																																																													
	power plant.	<table><tr><td>Nov 23</td><td>69601</td></tr><tr><td>Dec 23</td><td>71560</td></tr><tr><td>Jan 24</td><td>65782</td></tr><tr><td>Feb 24</td><td>61847</td></tr><tr><td>Mar 24</td><td>71402</td></tr></table> <ul style="list-style-type: none">Two stacks of 125 m Ht are installed for 96 MW Power plant.	Nov 23	69601	Dec 23	71560	Jan 24	65782	Feb 24	61847	Mar 24	71402																																																																			
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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 with the specified norms or boiler shut down totally.	<ul style="list-style-type: none">CompliedHigh 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.																																																																													
	<ul style="list-style-type: none">Monthly Analysis Report from Unistar Environment & Research Lab Pvt. Ltd. <table><tr><th rowspan="2">Month/ Parameters</th><th colspan="3">Power Plant Stack 1</th><th colspan="3">Power Plant Stack 2</th></tr><tr><th>SPM (mg/Nm3)</th><th>SO2 (ppm)</th><th>NOx (ppm)</th><th>SPM (mg/Nm3)</th><th>SO2 (ppm)</th><th>NOx (ppm)</th></tr><tr><td>Oct 23</td><td>27</td><td>35</td><td>38</td><td>20</td><td>32</td><td>34</td></tr><tr><td>Nov 23</td><td>23</td><td>38</td><td>35</td><td>26</td><td>36</td><td>32</td></tr><tr><td>Dec 23</td><td>19</td><td>36</td><td>39</td><td>22</td><td>32</td><td>36</td></tr><tr><td>Jan 24</td><td>16</td><td>84</td><td>66</td><td>19</td><td>94</td><td>58</td></tr><tr><td>Fb 24</td><td>19</td><td>80</td><td>113</td><td>24</td><td>61</td><td>77</td></tr><tr><td>Mar 24</td><td>24</td><td>72</td><td>125</td><td>26</td><td>64</td><td>83</td></tr><tr><td>Min</td><td>16</td><td>35</td><td>35</td><td>19</td><td>32</td><td>32</td></tr><tr><td>Max</td><td>27</td><td>84</td><td>125</td><td>26</td><td>94</td><td>83</td></tr><tr><td>Avg.</td><td>21</td><td>58</td><td>69</td><td>23</td><td>53</td><td>53</td></tr></table>			Month/ Parameters	Power Plant Stack 1			Power Plant Stack 2			SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	Oct 23	27	35	38	20	32	34	Nov 23	23	38	35	26	36	32	Dec 23	19	36	39	22	32	36	Jan 24	16	84	66	19	94	58	Fb 24	19	80	113	24	61	77	Mar 24	24	72	125	26	64	83	Min	16	35	35	19	32	32	Max	27	84	125	26	94	83	Avg.	21	58	69	23	53	53
Month/ Parameters	Power Plant Stack 1				Power Plant Stack 2																																																																										
	SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)																																																																									
Oct 23	27	35	38	20	32	34																																																																									
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Dec 23	19	36	39	22	32	36																																																																									
Jan 24	16	84	66	19	94	58																																																																									
Fb 24	19	80	113	24	61	77																																																																									
Mar 24	24	72	125	26	64	83																																																																									
Min	16	35	35	19	32	32																																																																									
Max	27	84	125	26	94	83																																																																									
Avg.	21	58	69	23	53	53																																																																									
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">CompliedThe 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.																																																																													
21	On line monitoring system shall be installed to monitor at least SOX & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.	<ul style="list-style-type: none">CompliedOnline monitoring system installed at DCS/ Control room of Power plant, displaying the values of SOX & PM.Also same has been displayed at the board available at plant main gate.																																																																													
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.	<ul style="list-style-type: none">CompliedWe 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">CompliedWater sprinkler (14 nos.) system has been provided to control the fugitive emission at coal storage, coal transfer points and truck unloading area.We have provided dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc.Fly ash is stored in silo and transferred in close trucks to avoid any dust emission.																																																																													
24	The fugitive emission in the work zone	<ul style="list-style-type: none">Complied																																																																													


Sr. No.	EC Conditions	Compliance status						
	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).	<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.						
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.	<ul style="list-style-type: none">CompliedRegular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained.						
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">CompliedRegular monitoring of ground level concentration of CS₂, SO₂, NO_x, Cl₂, HCl, PM₁₀ and PM_{2.5} is done by third party in the impact zone and its records are maintained.If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately.The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB. There are 4 nos. of ambient air quality 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.	<ul style="list-style-type: none">CompliedWe are member of TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd and M/s. Safe Enviro, JambusarCopy of the membership certificates are attached as Annexure-3.						
28	The Hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate location facility, before its disposal.	<ul style="list-style-type: none">CompliedWe have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before 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 waste.	<ul style="list-style-type: none">CompliedWe are member of TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd and M/s. Safe Enviro, JambusarCopy of the membership certificates are attached as Annexure-3.						
30	Discarded containers/ barrels/ bags/ liners shall be either reused or sold only to the authorized recyclers after decontamination	<ul style="list-style-type: none">CompliedWe are disposing Discarded containers/ barrels/ bags/ liners to GPCB approved registered recyclers only.						
31	Used Oils can be sold only to the registered recyclers.	<ul style="list-style-type: none">CompliedUsed Oil is sold to Registered recyclers only.						
32	Fly ash to be handled in dry site and handling of the fly ash shall be done through a closed pneumatic system.	<ul style="list-style-type: none">CompliedFly ash is handled in dry site and handled through closed pneumatic system. <table><tr><th>Month</th><th>Fly ash Generation (MT/M)</th></tr><tr><td>Oct 23</td><td>3551</td></tr><tr><td>Nov 23</td><td>6273</td></tr></table>	Month	Fly ash Generation (MT/M)	Oct 23	3551	Nov 23	6273
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Sr. No.	EC Conditions	Compliance status																					
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		Jan 24	8269																				
		Feb 24	4144																				
		Mar 24	3395																				
		Min.	3395																				
		Max.	10427																				
		Average	6010																				
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">CompliedWe 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.	<ul style="list-style-type: none">CompliedThe fly ash is supplied to the manufacturer of ash based products (Manufacturer of Cement/ Bricks). 100 % fly ash is being utilized. <table><tr><th>Month</th><th>Fly ash Disposal (MT/M)</th></tr><tr><td>Oct 23</td><td>3551</td></tr><tr><td>Nov 23</td><td>6273</td></tr><tr><td>Dec 23</td><td>10427</td></tr><tr><td>Jan 24</td><td>8269</td></tr><tr><td>Feb 24</td><td>4144</td></tr><tr><td>Mar 24</td><td>3395</td></tr><tr><td>Min.</td><td>3395</td></tr><tr><td>Max.</td><td>10427</td></tr><tr><td>Average</td><td>6010</td></tr></table>		Month	Fly ash Disposal (MT/M)	Oct 23	3551	Nov 23	6273	Dec 23	10427	Jan 24	8269	Feb 24	4144	Mar 24	3395	Min.	3395	Max.	10427	Average	6010
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A. 4	SAFETY:																						
35	Provisions of the Manufacturing, Storage & Import of Hazardous Chemicals Rules, 1986 & Factory act 1948 shall be complied with.	<ul style="list-style-type: none">CompliedWe are following MSIHC Rules, 1989 and Factories Act, 1948.All the chemicals/ materials are stored in the storage tanks with required material of Construction.Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines.Fire Hydrant system is provided nearby storage and handling area for emergency purpose.Safety trainings are provided to all the operators and workers working in such areas.Hazard Identification and Risk Assessment (JSA) of all activities carried out and SOPs are prepared accordingly.Safety showers are provided nearby storage areas.																					
36	A well designed fire hydrant system shall be installed as per the prevailing standards.	<ul style="list-style-type: none">CompliedFire hydrant system installed as per TAC (Tariff Advisory Committee) guidelines.CA Plant Fire Water Reservoir Storage Capacity: 3000 KL Fire Tender Details: Water capacity: 5000 liter Foam capacity: 500 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Single Headed Hydrant: 100 Nos Fire Hose Reel: 22 Nos DCP Extinguisher: 100 kg (50 kg × 2 Nos.), CO2 Extinguishers: 22.5 kg × 4 Nos. <ul style="list-style-type: none">CMS plant Fire Foam Tender Details: Water capacity: 4000 liter Foam capacity: 2000 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Fire Water Reservoir Storage Capacity: 2950 KL Fire extinguisher total 95 nos. ABC: 68 nos. CO2: 17 nos. Foam type: 10 nos. Hydrant: 33 nos.																					

Sr. No.	EC Conditions	Compliance status																					
		Monitor: 5 nos. Hose reel: 10 nos. Foam capacity: 7500 L																					
37	All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.	<ul style="list-style-type: none"> Complied As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly. 																					
	<table> <tr> <th>Sr. No.</th><th>Risk Mitigation Measure - Recommendations</th><th>Compliance Status</th></tr> <tr> <td>1</td><td>Surrounding population shall be made aware of the safety precautions to be taken in the event of any mishap within the plant. This can effectively be done by conducting the training awareness programs.</td><td>We have distributed "Disclosure of Information" as per Section-41 B as per Factories Act to the surrounding population and conducted training programs for awareness.</td></tr> <tr> <td>2</td><td>Critical switches and alarm should be always kept in line.</td><td>Our plant is operated by Distributed Control System (DCS) and all safety interlocks are provided and ensured its compliance by DCS operator on continuous basis.</td></tr> <tr> <td>3</td><td>Fire detectors should be installed near those units which handle large amount of flammable material and operate under high temperature and pressure.</td><td>Fire detectors are installed near those units which handle large amount of flammable material and operate under high temperature and pressure.</td></tr> <tr> <td>4</td><td>A wind direction pointer should also be installed at storage site so that in an emergency the wind direction can be directly seen and downwind population cautioned.</td><td>We have provided wind indicators at 20 locations in factory premises so that in an emergency the wind direction can be directly seen and downwind population cautioned.</td></tr> <tr> <td>5</td><td>Shut off and isolation valves should be easily approachable in emergencies.</td><td>All shut off and isolation valves are located as such that it can be easily approachable in emergencies.</td></tr> <tr> <td>6</td><td>Material Safety Data Sheet and Toxicological Data should be displayed at the facility.</td><td>Material Safety Data Sheet and Toxicological Data are displayed in Hindi and English languages at the facility.</td></tr> </table>	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 20 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.	
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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, CS ₂ , HCl etc.	<ul style="list-style-type: none"> Complied 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.	<ul style="list-style-type: none"> Complied We have provided tanks and vessels to storage hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS. 																					
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.	<ul style="list-style-type: none"> Complied For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas. 																					
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.	<ul style="list-style-type: none"> Complied 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	<ul style="list-style-type: none"> Complied OHC with availability of para-medical staff & ambulance 																					

Sr. No.	EC Conditions	Compliance status
	medical attention in the case of emergency, regular medical checkup of the workers and keeping its records etc.	<ul style="list-style-type: none"> is available round the clock. We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch. Periodic health checkup of all workers is also carried out regularly as per Factory act requirement.
43	Personal protective equipment shall be provided to workers and its usage shall be ensured and supervised.	<ul style="list-style-type: none"> Complied 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.	<ul style="list-style-type: none"> Complied We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
45	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<ul style="list-style-type: none"> Complied Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site. We have made six different sub committees of Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system.
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"> Complied Occupational health surveillance of the workers is done and its records are maintained. Six monthly pre-employment and periodical examination for all the workers is being carried out.
47	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	<ul style="list-style-type: none"> Complied 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.	<ul style="list-style-type: none"> Complied 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	<ul style="list-style-type: none"> Complied 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"> Complied During our procurement, we are instructing our Manufacturers/ suppliers to make required design modifications in equipments like air compressors, feeder pumps, turbine generators, etc. to mitigate the noise generation and to comply with the national/ international regulatory norms. We are regularly monitoring noise level of the plant area as per schedule.
-	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.	<ul style="list-style-type: none"> Complied Regular maintenance of machinery and vehicles are undertaken to reduce the noise impact and also considered upgraded version equipment with reputed vendors to ensure minimal noise impact.
-	Noise suppression measures such as enclosures, buffers and/ or protective measures shall be provided.	<ul style="list-style-type: none"> Complied Noise suppression measures have been provided at D. G. Sets with acoustic enclosures, utility compressors in well-

Sr. No.	EC Conditions	Compliance status
		ventilated area with noise protection.
-	Employees shall be provided with ear protection measures like earplugs or earmuffs.	<ul style="list-style-type: none"> Complied Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection' in such locations.
-	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"> Complied Proper oiling, lubrication and preventive maintenance is carried out of the machineries and equipment to reduce noise generation. We are following different maintenance practices such as Preventive Maintenance, Predictive Maintenance, Condition based Maintenance and also maintenance prevention with joint collaboration with vendors/ new technology at our site.
-	Construction of equipment generating minimum noise and vibration shall be chosen.	<ul style="list-style-type: none"> Complied We have procured and installed equipment like compressors of the companies such as Kirloskar, Ingersoll pneumatic etc. with silencers and Pumps such as Micro finish, Rajedia, Johnson, Trittech etc.
-	Ear plug and muffs shall be made compulsory for the construction workers working near the noise generating activities/ machines/ equipment.	<ul style="list-style-type: none"> Complied Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection' in such locations
-	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	<ul style="list-style-type: none"> Complied Vehicles and construction equipment with internal combustion engines without proper silencer are not allowed to operate at our site.
-	Construction equipment meeting the norms specified by EP Act.1986 shall only be used.	<ul style="list-style-type: none"> Complied 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	<ul style="list-style-type: none"> Complied Noise control equipment such as Silencers are provided in Emergency D. G. sets which are used as power back up in case of emergency and any other potential areas are also considered with the same.
-	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.	<ul style="list-style-type: none"> Complied 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"> Complied The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules.
A. 6	ENERGY CONSERVATION:	
51	The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.	<ul style="list-style-type: none"> Complied We have installed energy efficient devices 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.	<ul style="list-style-type: none"> Complied 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	<ul style="list-style-type: none"> Complied Solar landscaping lights are installed for Admin Building

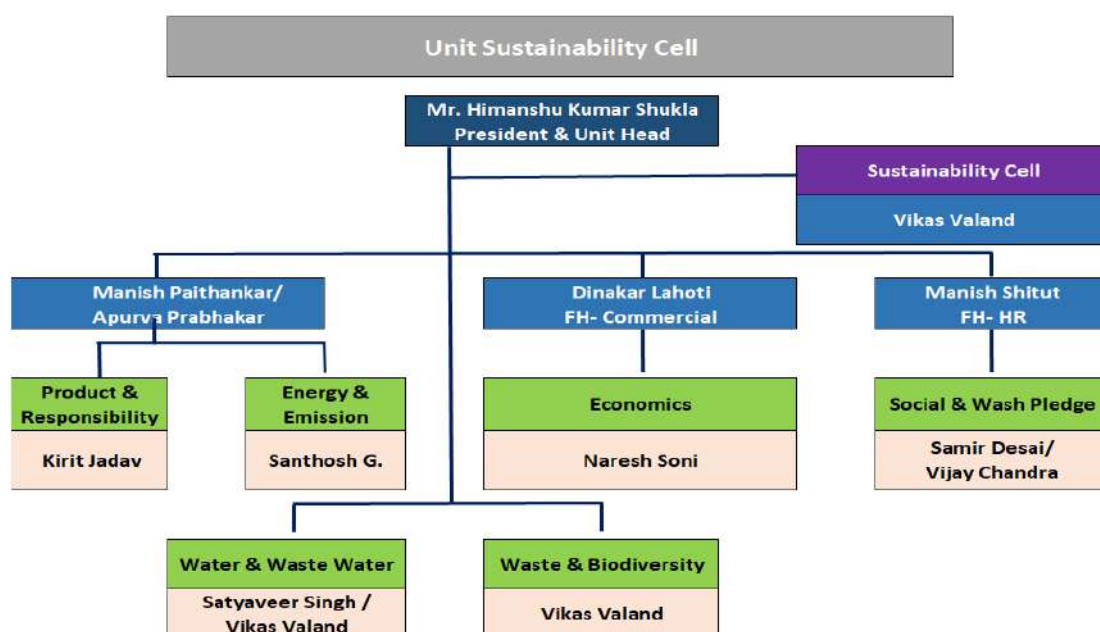
Sr. No.	EC Conditions	Compliance status
	shall be utilized as solar lighting for illumination of common areas, lighting of internal roads and passages in addition to utilization of solar water heating system.	<p>and also in other plant areas.</p> 
54	The transformers and motors shall have minimum efficiency of 85%.	<ul style="list-style-type: none"> • Complied • All transformers are of higher efficiency > 98 %
55	Variable frequency drives shall be installed.	<ul style="list-style-type: none"> • Complied • 80 nos. of Variable frequency drives 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.	<ul style="list-style-type: none"> • Complied • All lights are energy efficient MH lamps and we are replacing the same with LED lights.
57	<p>Energy saving practices as follows shall be practiced.</p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Complied • Energy saving practices and initiatives are in place. • Solar landscaping lights are installed for Admin Building and also in other plant areas. • We are using Solar power & wind power from third party as a green fuel to reduce the power consumption • We have installed VFD on Intermediate Caustic Transfer Pump, on Chilled Water Pump, on PAC Reactors etc. • We have change tap position of Lighting transformers (both normal & emergency) installed in CA. • Cooling water pump of capacity 3200 m3/hr (550kw) replaced with lower capacity pump of 2000 m3/hr (350kw) which reduced power consumption up to 3264 unit (reduced from 11184 unit to 7920 unit) • Aerodynamic FRP fan assembly installed in cooling tower ID fans by replacing cast iron fans which increases the air flow average. Frequency of cooling tower fan reduced from 50HZ to 42HZ saves the energy of 540 units. • Replacement of MH lamps with LED lamps • Installation of LT motor with VFD in place of HT motor for Chlorine compressor reduces the power consumption of Cl2 compressor. Motor frequency set to 42HZ for achieving the required output. Earlier it was working with full load even when the plant running with partial load. 1000 units saving achieved by replacing HT motor with LT motor • Coating of impeller of Cooling water pump (B) to reduce frictional losses • Installation of LT motor with VFD in Cl2 gas compressor

Sr. No.	EC Conditions	Compliance status
	<p>pumping energy</p> <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Complied We have carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
59	The company shall undertake following waste minimization measures:	
a)	Metering and control of quantities of active ingredients to minimize waste.	<ul style="list-style-type: none"> Complied We have provided flow meters for wastewater generation. We have installed RO system for reducing the effluent. Recycle steam and vapor condensate used in process & cooling tower. We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
b)	Reuse of by-products from the process as raw materials or raw material substitute in other process.	<ul style="list-style-type: none"> Complied We are using Hydrogen as a clean fuel for producing Caustic Soda flakes & Poly Aluminum Chloride. Use of waste chlorine gas for producing 32% HCl. Vapor condensate from flaking plant treated by polishing unit and finally used as DM water. By-product HCl from CPW Plant is used in PAC plant as raw material.
c)	Use of automated and enclosed filling to minimize spillages.	<ul style="list-style-type: none"> Complied We are using automated and closed filling to minimize spillages.
d)	Use of close feed system into batch reactors.	<ul style="list-style-type: none"> Complied We are using close feed system into batch reactors.
e)	Dry cleaning/ mopping of floor instead of floor washing.	<ul style="list-style-type: none"> Complied Floors are cleaned through mopping.
f)	Use of light pressure hoses for cleaning to reduce waste water generation.	<ul style="list-style-type: none"> Complied Light pressure hoses are used for cleaning and reduce the wastewater.
g)	Regular preventive maintenance for avoiding leakage, spillage etc.	<ul style="list-style-type: none"> Complied Preventive maintenance schedule is strictly complied to ensure the health of the equipment & pipelines. Chlorine liquid & gas pipelines thickness is being measured & monitored regularly.
A. 7	GREEN BELT AND OTHER PLANTATION	
60	The unit shall develop green belt with	<ul style="list-style-type: none"> Complied



Sr. No.	EC Conditions	Compliance status
	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.	<ul style="list-style-type: none"> We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. We have already planted about 13727 trees within plant premises. As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
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 greenbelt development, as committed by the project proponent.	<ul style="list-style-type: none"> Complied We have already planted about 13727 trees within plant premises. As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
62	Drip irrigation / low-volume, low angle sprinkler shall be used for the green belt development.	<ul style="list-style-type: none"> Complied Drip irrigation / low-volume, low angle sprinklers are used for green belt development. Total 22,000 m² area is covered under drip irrigation & low angle sprinkler system.
B.	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.	<ul style="list-style-type: none"> Complied All pollution control systems installed in our plant area directly connected with process safety inter locks from DCS. For ensure, all the safe requirements meet before any start up. We are also following pre-start up safety review before restart of the system.
64	The company shall strictly follow all the recommendations mentioned in the Charter Corporate Responsibility for Environment Protection (CREP) published by the Central pollution control board, as may be applicable.	<ul style="list-style-type: none"> Complied As per Charter Corporate Responsibility for Environment Protection (CREP) published by the CPCB, Tree plantation & Tree guard provided to protect Trees. Energy Program: Low smoke wood stoves & Solar Street Light etc.
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.	<ul style="list-style-type: none"> Complied A separate environment management cell equipped with full-fledged laboratory facilities and qualified personnel set up to carry out the Environment Management and Monitoring functions and a separate budget is allotted for this purpose.



Sustainability Governance Structure



Sr. No.	EC Conditions	Compliance status
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"> • Complied • A separate fund / budget is defined / sanctioned on an annual basis with respect to Environmental Management a separate account is maintained with respect to the same. • Yearly expenses with respect to environmental safeguards are also reported on an annual basis.
67	Pucca flooring/ impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<ul style="list-style-type: none"> • Complied • We have provided RCC and /acid brick line flooring in the required areas.
68	Leakages from the pipes, pumps, shall be minimal and if occurs shall be arrested promptly.	<ul style="list-style-type: none"> • Complied • 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.	<ul style="list-style-type: none"> • Complied • 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 SEIAA or any other competent authority for the purpose of the environmental protection and management.	<ul style="list-style-type: none"> • Complied • We have not received any additional condition that may be imposed by the SEAC till date. • We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection.
71	No future expansion or modifications in the plant shall be carried out without prior approval of the MOEF / SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	<ul style="list-style-type: none"> • Noted • All future expansion or modifications in the plant will be carried out with prior approval of the MOEF / SEIAA, as the case may be. • In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference will be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required.
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.	<ul style="list-style-type: none"> • Complied • Separate fund / budget is identified / sanctioned on annual basis for Environmental management. • A year wise expenditure on environmental safeguards is also reported.
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 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.	<ul style="list-style-type: none"> • Complied • We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. <p>Name of Paper: Times of India Date of Issue: 08.06.2011 In: English language</p> <p>Name of Paper: Gujarati Lok Satta Date of Issue: 07.06.2011 In: Gujarati language</p>

Sr. No.	EC Conditions	Compliance status
	 <p>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</p> <p>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.</p> <p>Copies of the clearance letter are available with GPCB and may also be seen at website of SEIAA/SEAC/GPCB</p> <p>Grasim Industries Ltd Registered Office: PO: Birlagram, Nagda - 456 331, Dist. Ujjain (M.P.)</p>	 <p>Grasim Cellulosic પ્લોટ નં. ૧, જી.આઈ.વી.સી., વિલાયત, જી.ભરૂચ (ગુજરાત) રાજ્ય સ્તરીય પર્યાવરણ પ્રભાવ આંશિકરણ પ્રતિષ્ઠાન દ્વારા પર્યાવરણીય પરવાનગી, ગુજરાત</p> <p>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 આંશિકરણ પ્રતિષ્ઠાન, ગુજરાત સરકાર વિલાયતમાં ક્ષારના બચ્ચડાની પ્લાન્ટ ભાગ ક્ષરિતકારી કોષ્ટક પ્લાન્ટ ૨૧૯૦૦૦ ટન પ્રતિ વર્ષ તથા એનબી હાઇડ્રોક્લોરિક / લોડીંગ કોષ્ટકોરિટ એસિડ ૧૯૭૧૦૦ ટન પ્રતિ વર્ષ, હાઈડ્રોજન ૬૧૩૨૦૦૦૦ Nm³ પ્રતિ વર્ષ, ક્લોરો સલ્ફોનિક એસિડ ૭૩૦૦૦ ટન પ્રતિ વર્ષ, સલ્ફ્યુરિક એસિડ ૩૬૫૦૦ ટન પ્રતિ વર્ષ, કાર્બન ડિસલ્ફાઇડ ૩૧૦૨૫ ટન પ્રતિ વર્ષ, તરલ (લોડીંગ) પોલી એલ્યુમિનમ ક્લોરાઇડ ૧૪૬૦૦૦ ટન પ્રતિ વર્ષ, સ્ટેપલ બ્લેચિંગ પાવડર ૩૬૫૦૦ ટન પ્રતિ વર્ષ, ક્લોરિનેટેડ પેરાફિન ૩૬૫૦૦ ટન પ્રતિ વર્ષ, એલ્યુમિનમ ક્લોરાઇડ ૧૪૬૦૦ ટન પ્રતિ વર્ષ તથા કુલ ૬૦ MW નો વિદ્યુત્તંત્ર માંગ છે.</p> <p>પરવાનગી પામી તરફ GPCB સેમ કોર્ટ SEAA/SEAC/GPCB પર પ્રાપ્ય/મળશે.</p> <p>ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ રજી.ઓફિસ: પી.ઓ.બિરલાગ્રામ, નાગડા - ૪૫૬ ૩૩૧, જી.ઉજ્જૈન (મધ્યપ્રદેશ)</p>
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 authorities concerned on first June and 1st December of each calendar year.	<ul style="list-style-type: none"> • Noted & Complied • We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
75	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<ul style="list-style-type: none"> • Noted & Complied • We are complying all the conditions stipulated by the Gujarat Pollution Control Board.
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"> • Complied • The date of financial closure and final approval of the project by the concerned authorities and the date of starting the project are: <ul style="list-style-type: none"> ○ 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.	<ul style="list-style-type: none"> • Noted • 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.	<ul style="list-style-type: none"> • Noted & Complied • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
79	The Environmental Clearance is valid for five Years.	<ul style="list-style-type: none"> • Noted • The EC has already being converted into CCA.

Compliance status of Environmental Clearance

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

Sr. No.	EC Conditions	Compliance status																																																																																																																							
	<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><tr><th>Sr. no.</th><th>Name of product</th><th colspan="2">Quantity (MT/Month)</th></tr><tr><th></th><th></th><th>Product</th><th>By-product</th></tr><tr><td colspan="4">Chloromethanes</td></tr><tr><td>1</td><td>Methyl Chloride</td><td colspan="2">Produced as 1st step of manufacturing of all other product</td></tr><tr><td>2</td><td>Methylene Chloride (50 % to 80 % of total production)</td><td rowspan="3">4500</td><td>--</td></tr><tr><td>3</td><td>Chloroform (15 % to 40 % of total production)</td><td></td></tr><tr><td>4</td><td>Carbon Tera Chloride (5 % to 10 % of total production)</td><td></td></tr><tr><td>5</td><td>Hydrochloric Acid</td><td>--</td><td>2250</td></tr><tr><td colspan="4">FATTY ALCOHOLS</td></tr><tr><td colspan="4">A) FATTY ALCOHOL MANUFACTURING PLANT</td></tr><tr><td>1</td><td>Fatty Alcohol</td><td>2700</td><td>--</td></tr><tr><td>2</td><td>Crude Alcohol Refining (Light)</td><td>--</td><td>25</td></tr><tr><td>3</td><td>Crude Alcohol Refining (Heavies)</td><td>--</td><td>144</td></tr><tr><td colspan="4">B) FATTY ALCOHOL FRACTIONATION PLANT</td></tr><tr><td>1</td><td>Fractionated Fatty Alcohol – Middle Cut Alcohol</td><td>541</td><td rowspan="3">5</td></tr><tr><td>2</td><td>Fractionated Fatty Alcohol – Light Cut Alcohol</td><td>199</td></tr><tr><td>3</td><td>Fractionated Fatty Alcohol – Light</td><td>13</td></tr></table>	Sr. no.	Name of product	Quantity (MT/Month)				Product	By-product	Chloromethanes				1	Methyl Chloride	Produced as 1st step of manufacturing of all other product		2	Methylene Chloride (50 % to 80 % of total production)	4500	--	3	Chloroform (15 % to 40 % of total production)		4	Carbon Tera Chloride (5 % to 10 % of total production)		5	Hydrochloric Acid	--	2250	FATTY ALCOHOLS				A) FATTY ALCOHOL MANUFACTURING PLANT				1	Fatty Alcohol	2700	--	2	Crude Alcohol Refining (Light)	--	25	3	Crude Alcohol Refining (Heavies)	--	144	B) FATTY ALCOHOL FRACTIONATION PLANT				1	Fractionated Fatty Alcohol – Middle Cut Alcohol	541	5	2	Fractionated Fatty Alcohol – Light Cut Alcohol	199	3	Fractionated Fatty Alcohol – Light	13	<ul style="list-style-type: none">NotedCopy of Environment Clearance & CCA are attached as Annexure-1.For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this product in upcoming EC Application.Actual Production Details are as below: <table><tr><th>Name of Product</th><th colspan="4">Actual Quantity (MT/M)</th></tr><tr><th></th><th>Methylene Chloride</th><th>Chloroform</th><th>Carbon Tetra Chloride</th><th>Total</th></tr><tr><td>Oct 23</td><td>2586</td><td>1280</td><td>150</td><td>4016</td></tr><tr><td>Nov 23</td><td>2767</td><td>1305</td><td>146</td><td>4218</td></tr><tr><td>Dec 23</td><td>2818</td><td>1404</td><td>143</td><td>4365</td></tr><tr><td>Jan 24</td><td>2215</td><td>1113</td><td>105</td><td>3433</td></tr><tr><td>Feb 24</td><td>2856</td><td>1364</td><td>150</td><td>4370</td></tr><tr><td>Mar 24</td><td>2781</td><td>1271</td><td>160</td><td>4211</td></tr><tr><td>Min</td><td>2856</td><td>1404</td><td>160</td><td>4370</td></tr><tr><td>Max</td><td>2215</td><td>1113</td><td>105</td><td>3433</td></tr><tr><td>Avg</td><td>2670</td><td>1289</td><td>142</td><td>4102</td></tr></table>	Name of Product	Actual Quantity (MT/M)					Methylene Chloride	Chloroform	Carbon Tetra Chloride	Total	Oct 23	2586	1280	150	4016	Nov 23	2767	1305	146	4218	Dec 23	2818	1404	143	4365	Jan 24	2215	1113	105	3433	Feb 24	2856	1364	150	4370	Mar 24	2781	1271	160	4211	Min	2856	1404	160	4370	Max	2215	1113	105	3433	Avg	2670	1289	142	4102
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Sr. No.	EC Conditions	Compliance status
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"> • Complied • Fresh Water requirement for Chloromethanes is being met through GIDC Water supply only. • Average water consumption for Oct 2023 to Mar 2024 is 197 KLD, sourced from GIDC water supply for the Chloromethanes Plant. • We have installed Meters and maintaining the record of the same on regular basis. • We are not using ground water for the Chloromethanes project. • For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
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.	<ul style="list-style-type: none"> • Complied • Cooling Tower blow down, Wastewater from VRC Unit & heavy recovery unit treated in RO system. RO Permeate reused in Process and RO reject further treat in ETP.
3	Industrial effluent generated from process of fatty alcohols - 25 KL/Day & Chloromethane (Hydro Chlorination & Photo Chlorination) - 60 KL/Day. VRC Unit & Heat Recovery Unit - 30 KL/Day, RO Reject - 88 KL/Day and safety showers - 4.5 KL/Day; hence total 207.5 KL/Day shall be treated in the ETP consisting of primary, secondary & tertiary treatment facilities.	<ul style="list-style-type: none"> • Complied • Industrial Effluent generated from Chloromethanes plant, VRC Unit & Heat recovery unit, RO reject, Safety Showers are treated in ETP. • For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
4	Domestic wastewater generation shall be 12.5 KL/Day and it shall be treated in the ETP along with the industrial wastewater.	<ul style="list-style-type: none"> • Complied • Domestic Wastewater generation is not exceeded from 12.5 KLD and is being treated in ETP along with Industrial Wastewater.
5	The ETP shall be operated regularly and efficiently so as to achieve the GPCB norms at the ETP outlet.	<ul style="list-style-type: none"> • Complied • The ETP is being operated regularly and efficiently to achieve GPCB norms at the ETP Outlet. • Also please note that the OCMS (Online Continuous monitoring system) is installed at outlet for continuous monitoring and it is connected with CPCB Server. Also weekly report sent by us to CPCB for the same. • Also the monthly monitoring of the same is being carried out by NABL & MoEFCC approved Laboratory.
6	The treated wastewater conforming to the GPCB norms shall be discharged into the GIDC underground drain for its final disposal in deep sea.	<ul style="list-style-type: none"> • Not Applicable • As per CCA received from GPCB, unit need to follow ZLD system. • The treated wastewater totally reused in plant process units and rejects used for Coal Sprinkling, Fly ash sprinkling, Dust suppression etc. Hence complied as per CCA Condition. • No Wastewater discharged into the GIDC underground drain for disposal in deep sea.
7	A Guard/ Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain.	<ul style="list-style-type: none"> • Not Applicable • As described in condition No. 6.
8	Online monitoring system shall be provided at final outlet of ETP for pH, TDS & TOC parameters and arrangement	<ul style="list-style-type: none"> • Complied • We have already installed online monitoring system at final outlet of ETP for pH & TOC parameters for

Sr. No.	EC Conditions	Compliance status
	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"> 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.	<ul style="list-style-type: none"> Complied Logbooks are maintained for the existing ETP and data are furnished to the GPCB from time to time.
10	Regular performance evaluation of the ETP shall be undertaken through credible institute and its records shall be maintained.	<ul style="list-style-type: none"> Complied Regular performance evaluation of the existing ETP is undertaken through credible institute and its records are being maintained.
11	The unit shall join and participate financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC.	<ul style="list-style-type: none"> Complied We are and will be participating financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC. We have also invested a special amount for a training & development of education program that has been initiated jointly by Paryavaran Vikas Kendra-Rajkot and Paryavaran Mitra Ahmedabad.
A.1.2	AIR:	
12	Hydrogen gas shall be used as a fuel in Volatile Reduction Chamber (VRC) whereas HSD shall be used as a fuel in the D. G. Set of 750 KVA proposed for new plants.	<ul style="list-style-type: none"> Noted & Complied Hydrogen gas is being used as a fuel in Volatile Reduction Chamber (VRC). HSD is being used as a fuel in DG Set of 750 KVA. Till date there is no fuel consumption as VRC system yet not started and DG Set is for standby.
13	Process emission shall be controlled with the air pollution control equipments (APCE) as mentioned below:	
	Hydro Chlorinator of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	<ul style="list-style-type: none"> Complied Condenser and Guard Condenser are provided with cooling water circulation for control of VOC in Hydro Chlorinator of Chloromethanes Plant.
	Crude CMS distillation column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	<ul style="list-style-type: none"> Complied Condenser and Guard Condenser are provided with cooling water circulation for control of VOC in Crude CMS distillation column of Chloromethanes Plant.
	Heavies CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	<ul style="list-style-type: none"> Complied Condenser and Guard Condenser are provided with cooling water circulation for control of VOC in Heavies CMS Distillation Column of Chloromethanes Plant.
	Volatile Reduction Chamber (VRC) of Chloromethanes Plant - Water and Caustic Scrubber for control of NOX, HCl & Cl ₂ .	<ul style="list-style-type: none"> Complied Water and Caustic Scrubber are provided with Volatile Reduction Chamber (VRC) of Chloromethanes Plant for control of NOX, HCl & Cl₂.
	Methanol column DT 111 of Fatty Alcohol Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.	<ul style="list-style-type: none"> Not Applicable For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
	Crude Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrester for control of VOC.	<ul style="list-style-type: none"> Not Applicable For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.
	Product Alcohol Let Down Drum S1301 of Fatty Alcohol Plant - Water Seal and Flame Arrester for control of VOC.	<ul style="list-style-type: none"> Not Applicable For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this products in upcoming EC Application.

Sr. No.	EC Conditions	Compliance status																		
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.	<ul style="list-style-type: none">CompliedIn Chloromethanes plant, all vents after guard condenser has been directed to Volatile Reduction Chamber (VRC) Unit, where gases have been inserted.Water Scrubber followed by Caustic scrubber has been provided for control of emission from VRC.Also please note that OCEMS is provided with VRC and connected with CPCB Server.																		
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.	<ul style="list-style-type: none">CompliedThe Air Pollution Control Equipment (APCE) attached with different stacks are operated efficiently and effectively to achieve the GPCB/ CPCB / MoEF&CC prescribed norms.We have provided adequate stack height of as per prevailing norms for the process emissions. <table><tr><th>S. N.</th><th>Stack Attached to</th><th>Stack Height Provided</th></tr><tr><td>1</td><td>DG Set (750 KVA – 1 No.)</td><td>11 m</td></tr><tr><td>2</td><td>Volatile Reduction Chamber (VRC)</td><td>35 m</td></tr><tr><td>3</td><td>Hydro Chlorinator</td><td>35 m</td></tr><tr><td>4</td><td>Crude CMS Distillation</td><td>35 m</td></tr><tr><td>5</td><td>Heavies CMS Distillation</td><td>35 m</td></tr></table>	S. N.	Stack Attached to	Stack Height Provided	1	DG Set (750 KVA – 1 No.)	11 m	2	Volatile Reduction Chamber (VRC)	35 m	3	Hydro Chlorinator	35 m	4	Crude CMS Distillation	35 m	5	Heavies CMS Distillation	35 m
S. N.	Stack Attached to	Stack Height Provided																		
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5	Heavies CMS Distillation	35 m																		
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 GPCB on real time basis.	<ul style="list-style-type: none">CompliedOnline Monitoring system has been installed on VRC stack to monitor HCl, Cl2 & NOx concentration and also it is connected with GPCB/CPCB Server.																		
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).	<ul style="list-style-type: none">CompliedWorkplace monitoring is being carried out on monthly basis to monitor fugitive emissions in CMS plant through NABL & MoEFCC approved Laboratory.All the parameters are well within the permissible limit.																		
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.	<ul style="list-style-type: none">CompliedRegular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained.																		
19	Regular monitoring of ground level concentration of CS2, H2S, SO2, NOX, Cl2, PM10 and PM2.5 shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by Gujarat Pollution Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.	<ul style="list-style-type: none">CompliedRegular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained.If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately.The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB.There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).																		
A.1.3 HAZARDOUS/ SOLID 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.	<ul style="list-style-type: none">CompliedWe have obtained authorization of the GPCB for collection / treatment / storage / disposal of hazardous wastes. <table><tr><td>Authorization No.</td><td>AWH-98281 & Amendment No. AWH-118058</td></tr><tr><td>Validity</td><td>02/03/2024</td></tr></table>	Authorization No.	AWH-98281 & Amendment No. AWH-118058	Validity	02/03/2024														
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Validity	02/03/2024																			

Sr. No.	EC Conditions	Compliance status	
	Authorization of the GPCB must be obtained for collection/ treatment/ storage/ disposal of hazardous wastes.		Applied for Renewal application on 10/01/2024 and the same is under Scrutiny of HO Office, GPCB, Gandhinagar
		<ul style="list-style-type: none">We have provided separate covered storage area for different types of wastes.We are member CHWIF & TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And M/s. Safe Enviro, Jambusar.Copy of the membership certificate is attached as Annexure 3.Also please note that for HCl, DSA and other haz waste selling under Rule 9 only with GPS AIS 140 Mounted & colour coded vehicles through Manifest system.	
21	The Hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	<ul style="list-style-type: none">CompliedWe have provided impervious layer with pucca bottom and leachate location facility in the separate hazardous waste storage area for storing before disposal.	
22	The unit shall dispose ETP Sludge and Spent Carbon from Chloromethanes and Fatty Alcohol Plants at the nearest common TSDF.	<ul style="list-style-type: none">CompliedWe are member of TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd. And M/s. Safe Enviro, Jambusar.	
23	Exhausted Resin and Spent Catalyst shall be sent back for regeneration or reactivation.	<ul style="list-style-type: none">CompliedExhausted Resin & Spent Catalyst are being sent back for Regeneration or reactivation.	
24	Used oil shall be sold only to the registered recyclers.	<ul style="list-style-type: none">CompliedUsed Oil is being sold to Registered recycler under Rule 9.	
25	Discarded Containers / barrels / bags / liners shall be either reused or sold only to the authorized recyclers after decontamination.	<ul style="list-style-type: none">CompliedDiscarded Containers / barrels / bags / liners are being sold to authorized recyclers under Rule 9.	
26	Exhausted Batteries of UPS shall be managed as per the provisions of the Batteries (Management & Handling) Rules, 2001 as amended in 2010	<ul style="list-style-type: none">CompliedExhausted Batteries of UPS handled as per the provisions of the Batteries (Management & Handling) Rules, 2001 as amended in 2010.	
27	E-waste from Plant Electronic system shall be managed as per the provisions of the E-waste management and handling Rules 2011.	<ul style="list-style-type: none">CompliedE-waste from Plant Electronic system managed as per the provisions of the E-waste management and handling Rules 2011.	
28	Exhausted insulating materials shall be sold to authorized recyclers.	<ul style="list-style-type: none">CompliedExhausted insulating materials are sold to authorized recyclers under Rule 9.	
A.1.4	SAFETY:		
29	Provisions of the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1986 & Factories Act, 1948 shall be strictly complied with.	<ul style="list-style-type: none">CompliedWe 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.	
30	A well designated fire hydrant system shall be installed as per the prevailing standards.	<ul style="list-style-type: none">CompliedWe have installed designated fire hydrant system for the Chloromethanes plant.	

Sr. No.	EC Conditions	Compliance status
		<ul style="list-style-type: none"> For Fatty Alcohol, suitable technology is not finalized by our technical/ project team hence we have not applied for the CTE of Fatty Alcohol plant and also we had deleting this product in upcoming EC Application.
31	All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report shall be implemented.	<ul style="list-style-type: none"> Complied All the risk mitigation measures, general & specific recommendations mentioned in Chapter 6 of the EIA Report are implemented.
32	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals, especially chlorine, hydrogen, HCl etc.	<ul style="list-style-type: none"> Complied We have developed job safety analysis procedure and trainings have been provided to all employees. Proper controls are provided to mitigate any emergency.
33	Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risks generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks/ containers instead of one single large capacity tank for safety purpose.	<ul style="list-style-type: none"> Complied Storage of hazardous chemicals is minimized and stored in multiple small capacity tanks / containers instead of one single large capacity tank / containers. All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals.
34	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm 3water	<ul style="list-style-type: none"> Complied For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas.
35	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/ dyke walls shall be provided for storage tanks for Hazardous Chemicals. Close handling system for chemicals shall be provided.	<ul style="list-style-type: none"> Complied All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals.
36	Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check-up of the workers and keeping its record etc.	<ul style="list-style-type: none"> Complied OHC with availability of para-medical staff & ambulance is already available round the clock. We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch.
37	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	<ul style="list-style-type: none"> Complied We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
38	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<ul style="list-style-type: none"> Complied We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
39	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<ul style="list-style-type: none"> Complied Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc. We have engaged DuPont Safety for implementation of Work place safety & Process Safety management system and to provide training & Awareness of employees in the site. We have made six different sub committees of Work place safety and Process safety management subcommittees. APEX Committee headed by Unit Head, functional Head and department heads to develop and implement safety management system.
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.	<ul style="list-style-type: none"> Complied Occupational health surveillance of the workers is done and its records are maintained. Six monthly pre-employment and periodical examination for all the workers is being carried out. 100% employees undergo with occupational health

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		<p>surveillance every 6 month/ 12 month depending on exposure.</p> <ul style="list-style-type: none"> Record is available with Occupational Health Centre. Sample report is attached as Annexure 6.
41	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	<ul style="list-style-type: none"> Complied Handling and charging of the chemicals are in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
42	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<ul style="list-style-type: none"> Complied We are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.
A.1.5	NOISE:	
43	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<ul style="list-style-type: none"> Complied The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules. Third party ambient noise monitoring is carried out by NABL accredited laboratory.
A.1.6	CLEANER PRODUCTION AND WASTE MINIMIZATION:	
44	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	<ul style="list-style-type: none"> Complied We have carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
45	The company shall undertake following waste minimization measures: a) Metering and control of quantities of active ingredients to minimize waste.	<ul style="list-style-type: none"> Complied We have provided flow meters for wastewater generation. We have installed RO system for reducing the effluent. Recycle steam and vapour condensate is used in process & cooling tower. We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
	b) Reuse of by-products from the process as raw materials substitutes in other process.	<ul style="list-style-type: none"> Complied Use of waste chlorine gas for producing CMS Products. Vapour condensate from flaking plant treated by polishing unit and finally used as DM water.
	c) Use of automated and enclosed filling to minimize spillages.	<ul style="list-style-type: none"> Complied We are using automated and closed filling to minimize spillages.
	d) Use of close feed system into batch reactors.	<ul style="list-style-type: none"> Complied We are using close feed system into batch reactors.
	e) Dry cleaning / mopping of floor instead of floor washing.	<ul style="list-style-type: none"> Complied Floors are cleaned through mopping.
	f) Use of high pressure hoses for cleaning to reduce wastewater generation.	<ul style="list-style-type: none"> Complied High pressure hoses are used for cleaning and reduce the wastewater.
	g) Regular preventive maintenance for avoiding leakage, spillage etc.	<ul style="list-style-type: none"> Complied Regular preventive maintenance has been carried out to avoid leakages, spillages etc.
A.1.7	GREEN BELT AND OTHER PLANTATION:	
46	The unit shall develop and maintain green belt within premises as per the CPCB guidelines. In addition to this, the unit shall also take up adequate plantation on road sides and suitable open areas in the GIDC estate, nearby	<ul style="list-style-type: none"> Complied We have developed greenbelt along with boundary wall & planted different plant species in campus area. Plant species were selected as per the directives of CPCB & DFO.

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	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.	<ul style="list-style-type: none"> • Complied • Already 30,000 No. of trees have been planted within the premises and in nearby villages.
48	Drip irrigation system shall be used for the green belt development.	<ul style="list-style-type: none"> • Complied • Drip irrigation/ low-volume, low angle sprinklers are used for green belt development. • Total 22,000 m² area is covered under drip irrigation & low angle sprinkler system.
B.	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.	<ul style="list-style-type: none"> • Noted & Complied • All pollution control systems installed in our plant are directly connected with process safety inter locks from DCS. • For ensure, all the safe requirements meet before any start up. • We are also following pre-start up safety review before restart of the system.
50	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.	<ul style="list-style-type: none"> • Noted & Complied • All the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) has been followed.
51	A separate Environment Management cell equipped with full-fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.	<ul style="list-style-type: none"> • Complied • A separate Environment Management Cell has been equipped with 2 Environment Officers under One Environment Head. • Also there is a separate budget allocated for Environment related activities.
52	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.	<ul style="list-style-type: none"> • Complied • Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
53	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<ul style="list-style-type: none"> • Complied • We have provided RCC and / acid brick line flooring in the required areas.
54	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	<ul style="list-style-type: none"> • Complied • We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
55	The project management shall also comply with all the environmental protection measures, risk mitigation measures and safeguards recommended in the EIA/ EMP report as well as other proposals made by them.	<ul style="list-style-type: none"> • Complied • All the environmental protection measures, risk mitigation measures and safeguards recommended in the EIA/ EMP report as well as other proposals are being complied.
56	The company shall undertake socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.	<ul style="list-style-type: none"> • Complied • Socio-economic developmental / community welfare activities are being carried out in consultation with the District Development Officer / District Collector.
57	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the	<ul style="list-style-type: none"> • Noted & Complied • We have not received any additional condition that may be imposed by the SEAC till date.

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	purpose of the environmental protection and management.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Noted We ensure that we shall not carry out any further expansion or modifications in the plant likely to cause environmental impacts without obtaining prior Environment Clearance from the concerned authority
59	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<ul style="list-style-type: none"> Complied Separate fund / budget is identified / sanctioned on annual basis for Environmental management.
60	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA / SEAC / GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	<ul style="list-style-type: none"> Complied We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. <p>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</p>
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p style="text-align: center;">PUBLIC NOTICE ENVIRONMENTAL CLEARANCE</p> <p>It is hereby informed that the State Level Environment Impact Assessment Authority, ParyavaranBhavan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/ GUJ/EC/5(f)/90/2014 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.</p> <p style="text-align: right;">Sd/- M/s. Grasim Industries Ltd. Plot No.1, GIDC Industrial Estate, Vilayat, Dist: Bharuch, Gujarat</p> </div> <div style="width: 48%; border: 1px solid black; padding: 5px;"> <p style="text-align: center;">જાહેર નિવેદન પર્યાવરણ મંજૂરી</p> <p>આ સાથે જાણવામાં આવે છે કે 'સ્ટેટ લેવલ એન્વિરોનમેન્ટ ઇમ્પેક્ટ ઓથોરિટી' પર્યાવરણ સ્વચ્છ સેક્ટર-૧૦-અ ગાંધીનગર- ૩૮૨ ૦૧૦, ગુજરાત દ્વારા તેઓના પત્ર ક્રમાંક SEIAA/ GUJ/EC/5(f)/૯૦/૨૦૧૪ તારીખ ૦૧/૦૮/૨૦૧૪ ના રોજ મેસર્સ ગ્રાસીમ સેલ્યુલોસિક (યુનિટ ઓફ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ) ના પ્લોટ નં. ૧, જી.આઈ.ડી.સી., ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાતમાં ક્લોરોમીથેનસ અને ફેટી આલ્કોહોલના ઉત્પાદન માટેની યોજનાને S.O. ૧૫૩૩, EIA નોટિફિકેશન ૨૦૦૬, જાહેરનામા મુજબ એન્વિરોનમેન્ટલ ક્લીઅરન્સ માટે અનુમતિ આપવામાં આવે છે. ઉપરોક્ત અનુમતિની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે. અને સહર અનુમતિને SEIAA/SEAC/GPCB નો વેબસાઈટ પર પણ મુકવામાં આવેલ છે.</p> <p style="text-align: right;">સહી/- મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ પ્લોટ નં.૧, જી.આઈ.ડી.સી., ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાયત, જી.ભરૂચ, ગુજરાત</p> </div> </div>		
61	It shall be mandatory for all the project management to submit half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	<ul style="list-style-type: none"> Complied We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies regularly.
62	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<ul style="list-style-type: none"> Noted We shall comply with the stipulations made by the Gujarat Pollution Control Board.
63	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<ul style="list-style-type: none"> Noted & Complied The date of financial closure and final approval of the project by the concerned authorities and the date of starting the project are: <ul style="list-style-type: none"> Date of financial closure: 31st March 2014 Date of final approval of the project by the concerned authorities: 26th June 2013

Sr. No.	EC Conditions	Compliance status
64	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<ul style="list-style-type: none"> • Noted • We have been complying the conditions issued by the SEIAA. No suspension order issued by the SEIAA till date.
65	The company in a time bound manner shall implement these conditions. The SEIAA reserves the tight to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974. Hazardous waste (Management Handling and Transboundary Movement) Rules 2008 and the public liability Insurance Act, 1991 along with their amendments and rules.	<ul style="list-style-type: none"> • Complied • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
66	This environmental clearance is valid for five years from the date of issue.	<ul style="list-style-type: none"> • Noted • The EC has already being converted into CCA..
67	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<ul style="list-style-type: none"> • Not Applicable • There is no appeal against this environmental clearance lie with the National Green Tribunal.

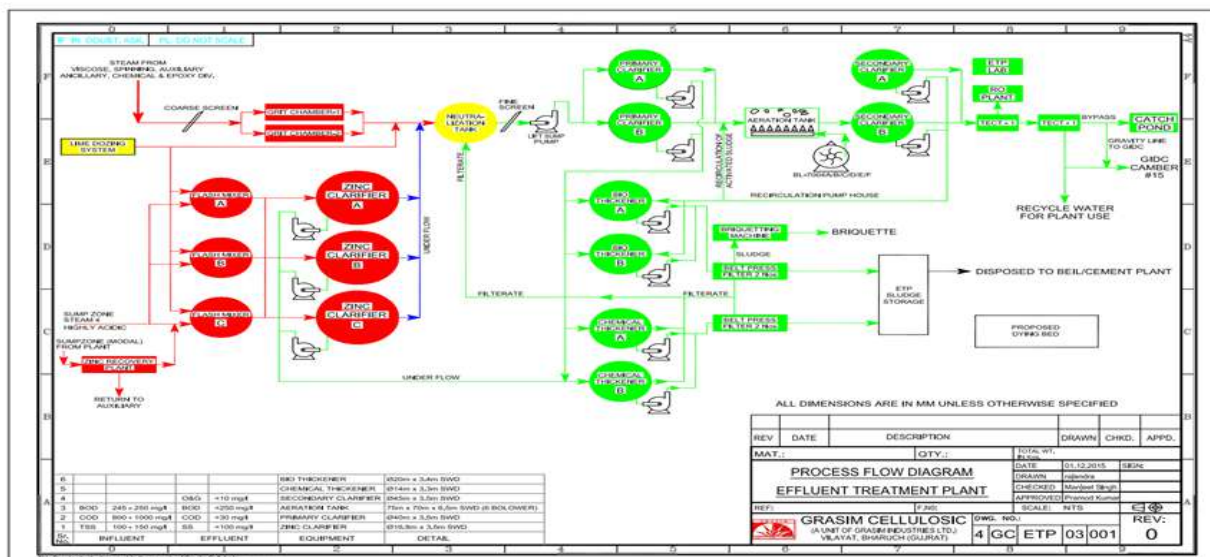
Compliance status of Environmental Clearance
vide Letter No.: SEIAA/GUJ/EC/5(f) & 4(d)/642/2016 dated
29th Oct 2016

Sr. No	EC Conditions	Compliance Status																																																																						
	<p>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.</p> <table><tr><th rowspan="2">S. no</th><th rowspan="2">Name of Product</th><th colspan="3">Production capacity (MT/ Annum)</th></tr><tr><th>Existing</th><th>Proposed</th><th>Total</th></tr><tr><td>1</td><td>Chlorinated Paraffin wax</td><td>36500</td><td>33500</td><td>70000</td></tr><tr><td>2</td><td>Caustic Soda Lye</td><td>219000</td><td>146000</td><td>365000</td></tr><tr><td>3</td><td>Poly Aluminum Chloride</td><td>146000</td><td>104000</td><td>250000</td></tr><tr><td>4</td><td>Aluminum Chloride</td><td>14600</td><td>10400</td><td>25000</td></tr><tr><td>5</td><td>Stable Bleaching Powder</td><td>36500</td><td>24500</td><td>61000</td></tr><tr><td>6</td><td>Hydrogen</td><td>6132000 0 (Nm3)</td><td>4088000 0 (Nm3)</td><td>10220000 0 (Nm3)</td></tr><tr><td>7</td><td>Liquid chlorine/ Sodium Hypochlorite / Hydrochloric Acid</td><td>197100</td><td>131400</td><td>328500</td></tr></table>	S. 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	6132000 0 (Nm3)	4088000 0 (Nm3)	10220000 0 (Nm3)	7	Liquid chlorine/ Sodium Hypochlorite / Hydrochloric Acid	197100	131400	328500	<ul style="list-style-type: none">NotedLatitude: 21°46'8" and 21°47'11" NorthLongitude: 72°53'18" and 72°54'49" EastCopy of Environment Clearance is attached as Annexure-1.																											
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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.	<ul style="list-style-type: none">CompliedWe have obtained requisite permission from Petroleum & Explosives Safety Organization (PESO), Nagpur before commissioning of the project. Copy of PESO License are attached as Annexure-2.																																																																						
A.2	WATER:																																																																							
2	Total water requirement after proposed expansion shall not exceed 6500 KL/day for the Synthetic	<ul style="list-style-type: none">CompliedAverage water consumption for Oct 2023 to March																																																																						

Sr. No	EC Conditions	Compliance Status																																																				
	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.	<div>2024 is 2676 KLD, sourced from GIDC water supply for the Synthetic Organic Chemicals and Caustic Soda Lye plant.</div> <table><thead><tr><th rowspan="2">Month</th><th>Water Consumption</th><th>Water Recycle / Reuse</th></tr><tr><th>KL/Month</th><th>KL/Month</th></tr></thead><tbody><tr><td>Oct 23</td><td>153387</td><td>24145</td></tr><tr><td>Nov 23</td><td>162301</td><td>23685</td></tr><tr><td>Dec 23</td><td>150107</td><td>27113</td></tr><tr><td>Jan 24</td><td>136647</td><td>29775</td></tr><tr><td>Feb 24</td><td>162504</td><td>42977</td></tr><tr><td>Mar 24</td><td>144805</td><td>40751</td></tr><tr><td>Min</td><td>136647</td><td>23685</td></tr><tr><td>Max</td><td>162504</td><td>42977</td></tr><tr><td>Avg</td><td>151625</td><td>31407</td></tr></tbody></table> <div><ul style="list-style-type: none">We are recycling/reuse ~6963 KL/Day of waste water within Synthetic Organic Chemicals and Caustic Soda Lye plants.Following are the GIDC offer cum allotment letter details:<table><thead><tr><th>Sr. no</th><th>Letter no.</th><th>Water supply</th><th>Effluent discharge</th></tr></thead><tbody><tr><td>1</td><td>GIDC/PROJ/MKT/GRASIM/575 Dated 6th December 2006</td><td>15.60 MLD</td><td>12.48 MLD</td></tr><tr><td>2</td><td>GIDC/SE/CG/BRH/1236 Dated 29th December 2016</td><td>25 MLD</td><td>19.4 MLD</td></tr><tr><td>3</td><td>GIDC/ENG/CE/34 Dated 9th October 2017</td><td>55-56 MLD</td><td>--</td></tr><tr><td>4</td><td>GIDC/BRH/DEE (DRG)/659</td><td>--</td><td>23 MLD</td></tr></tbody></table><div>Copy of agreement letter is attached as Annexure-4.</div></div>	Month	Water Consumption	Water Recycle / Reuse	KL/Month	KL/Month	Oct 23	153387	24145	Nov 23	162301	23685	Dec 23	150107	27113	Jan 24	136647	29775	Feb 24	162504	42977	Mar 24	144805	40751	Min	136647	23685	Max	162504	42977	Avg	151625	31407	Sr. no	Letter no.	Water supply	Effluent discharge	1	GIDC/PROJ/MKT/GRASIM/575 Dated 6th December 2006	15.60 MLD	12.48 MLD	2	GIDC/SE/CG/BRH/1236 Dated 29th December 2016	25 MLD	19.4 MLD	3	GIDC/ENG/CE/34 Dated 9th October 2017	55-56 MLD	--	4	GIDC/BRH/DEE (DRG)/659	--	23 MLD
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3	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	<div><ul style="list-style-type: none">CompliedWe have installed Water Meter at the inlet. Logbook is maintained to record the water consumption.</div>																																																				
4	Total industrial waste water generation from Synthetic Organic Chemicals and Caustic Lye plant shall not exceed 600 KL/day.	<div><ul style="list-style-type: none">CompliedAverage industrial waste water generation from synthetic organic chemicals and caustic lye plant for Oct 2023 to March 2024 is 1234 KL/Day as in our current CCA we have permission of 5220 KLD waste water discharge.</div> <table><thead><tr><th rowspan="2">Month</th><th>Waste water generation</th></tr><tr><th>KL/Month</th></tr></thead><tbody><tr><td>Oct 23</td><td>35729</td></tr><tr><td>Nov 23</td><td>33494</td></tr><tr><td>Dec 23</td><td>40920</td></tr><tr><td>Jan 24</td><td>36727</td></tr><tr><td>Feb 24</td><td>37421</td></tr><tr><td>Mar 24</td><td>46764</td></tr><tr><td>Min</td><td>33494</td></tr><tr><td>Max</td><td>46764</td></tr><tr><td>Average</td><td>38509</td></tr></tbody></table> <div><ul style="list-style-type: none">Note: Water Consumption and Wastewater generation is as per our existing CCA vide Order No. AWH-98281 dated 29/12/2018 & amendment thereof, which is under prescribed limit.</div>	Month	Waste water generation	KL/Month	Oct 23	35729	Nov 23	33494	Dec 23	40920	Jan 24	36727	Feb 24	37421	Mar 24	46764	Min	33494	Max	46764	Average	38509																															
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5	Unit shall treat the additional effluent in their existing ETP having capacity 35 MLD comprises of primary & secondary treatment plants.	<div><ul style="list-style-type: none">CompliedAfter primary treatment, neutralized effluent is sent to SFD plant ETP comprising of primary &</div>																																																				

Sr. No	EC Conditions	Compliance Status
		<p>secondary treatment facility.</p> <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.


Effluent Treatment Plant PFD



6	Total quantity waste water discharge of the group companies (i.e. Chemical division + Cellulosic division + Epoxy division) shall not exceeds 19.4 MLD at any time. The treated waste water conforming to the GPCB/ CPCB/ MoEF&CC norms shall be discharged into the GIDC underground drain for its final disposal into the deep sea.	<ul style="list-style-type: none"> Complied 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 discharged into GIDC underground pipeline for final disposal to deep sea through GIDC.
7	A Guard/ Polishing Pond shall be provided before discharge of treated effluent into GIDC underground drain. The unit shall provide on line pH meter, TDS meter & TOC meter for online monitoring of the treated effluent.	<ul style="list-style-type: none"> Complied We have provided 2 Nos. of guard ponds, each of (L: 90m, B: 60m, SWD: 6.5m) equivalent to 50,000 m3 capacity provided, (suitable for storage of 48 hrs) before discharge of treated effluent into GIDC drain. As per CCA condition, we have installed Online pH meter, flow meter & TOC meter are provided for monitoring of the treated effluent.
8	Additional domestic waste water (40 KL/day) shall be treated in existing STP (Capacity 140 m3/day) and	<ul style="list-style-type: none"> Complied Additional domestic wastewater is treated in STP








Sr. No	EC Conditions	Compliance Status																				
	treated sewage shall be used for gardening-plantation within premises.	<div>and average domestic wastewater generation for Oct 2023 to Mar 2024 is 431 KL/Day.</div> <table><tr><th>Month</th><th>Domestic KL/Month</th></tr><tr><td>Oct 23</td><td>12963</td></tr><tr><td>Nov 23</td><td>12219</td></tr><tr><td>Dec 23</td><td>13495</td></tr><tr><td>Jan 24</td><td>11945</td></tr><tr><td>Feb 24</td><td>13390</td></tr><tr><td>Mar 24</td><td>13121</td></tr><tr><td>Min</td><td>11945</td></tr><tr><td>Max</td><td>13495</td></tr><tr><td>Avg</td><td>12856</td></tr></table> <div><ul style="list-style-type: none">Note: Water Consumption and Wastewater generation is as per our existing CCA vide Order No. AWH-98281 dated 29/12/2018 & its amendment vide letter no. GPCB/BRCH-B/CCA-70(6)/ID-41279/526734 dtd. 13-11-2019, which is under prescribed limit.</div>	Month	Domestic KL/Month	Oct 23	12963	Nov 23	12219	Dec 23	13495	Jan 24	11945	Feb 24	13390	Mar 24	13121	Min	11945	Max	13495	Avg	12856
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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.	<div><ul style="list-style-type: none">CompliedDuring monsoon season, the treated sewage is stored in existing guard pond / polishing pond.</div>																				
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.	<div><ul style="list-style-type: none">CompliedWe have provided primary treatment facility (neutralization pit) in our unit and then neutralized effluent is sent to SFD plant ETP comprising of primary & secondary treatment facility. We have installed STP as per following specification: Design Capacity of STP: 1080 m3/day. Design Basis: Flow: 1080 m3/day. BOD: 250-270 mg/l. COD: 400-600 mg/l TSS: 400 mg/l pH: 6 - 9We are operating our ETP & STP regularly and efficiently so as to achieve desired norms prescribed by MoEF&CC / CPCB / GPCB.</div>																				
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.	<div><ul style="list-style-type: none">CompliedWe have provided metering facility at inlet & outlet of the ETP & STP and maintain the records of the same regularly.Proper logbooks of ETP operations is maintained, also maintaining chemicals consumed, treated water reused, power consumed etc. and submitted in the Monthly Patrak on GPCB XGN.</div>																				
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.	<div><ul style="list-style-type: none">CompliedRegular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained. Copy of is attached as Annexure-7.</div>																				
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	<div>Complied<ul style="list-style-type: none">Rainwater is recovered from roof tops and stored in a rain water harvesting well.We have already installed 10 nos. of Rain water</div>																				




Sr. No.	EC Conditions	Compliance Status
	<p>water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.</p> 	<p>harvesting station at nearby villages like, Sachan Village, Saran Village, Saykha Vilalge, Derol, Asmita Vikas Kendra, Rahad Primary school, Ankot Primary school, Smt. M.M.M. Patel vidhyalaya, Pisad primary school, Saladra Primary school.</p> <ul style="list-style-type: none"> We are exploring more possibilities for rainwater harvesting in nearby area in consultation with a Geo-hydrology expert.
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>	<ul style="list-style-type: none"> Complied We are and will be participating financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt./ GIDC. We have also invested a special amount for a training & development of education program that has been initiated jointly by Paryavaran Vikas Kendra-Rajkot and Paryavaran Mitra Ahmedabad.
A.3	AIR:	
15	<p>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.</p>	<ul style="list-style-type: none"> Complied We have installed plant such as PAC, Caustic Soda flakes and Calcium Chloride in which 98% of generated hydrogen is being consumed as a clean fuel. Hence we do not have sufficient hydrogen to run the boiler based on that we have removed Hydrogen Boiler from our plant and informed to Boiler inspector.
16	<p>Process emission shall be controlled with the air pollution control equipment's (APCE) as mentioned below. Sodium Hypo stack of Caustic Plant - Alkali scrubber</p>	<ul style="list-style-type: none"> Complied

Sr. No	EC Conditions	Compliance Status																																																																																																
	for control of Cl2.	<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.																																																																																																
	HCl stack-1 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.	<ul style="list-style-type: none">CompliedWe 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.																																																																																																
	HCl stack-2 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl.	<ul style="list-style-type: none">CompliedWe 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.																																																																																																
	Poly Aluminium Chloride Liquid - Water scrubber system for control of HCl & Cl2.	<ul style="list-style-type: none">CompliedWe have provided water scrubber system for control of HCl & Cl2.																																																																																																
	Poly Aluminium Chloride Powder - 3 stage Water scrubber system for control of HCl & Cl2.	<ul style="list-style-type: none">CompliedWe have provided 3 stage water scrubber system for control of HCl & Cl2.																																																																																																
	Chlorinated paraffin Plant - Alkali Scrubbing system for control of HCl & Cl2.	<ul style="list-style-type: none">CompliedWe have provided Alkali Scrubbing system for control of HCl & Cl2.																																																																																																
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	Stable Bleaching Powder - Alkali Scrubbing system for control of HCl & Cl2.	<ul style="list-style-type: none">CompliedWe have provided Alkali Scrubbing system for control of HCl & Cl2.																																																																																																
Oct 2023 to Mar 2024																																																																																																		
	Stack	<table><tr><td>Range</td><td>HCl</td><td>Cl2</td><td>HF</td><td>PM</td></tr><tr><td rowspan="3">Sodium Hypo Stack 1</td><td>Min</td><td>-</td><td>1.24</td><td>-</td><td>-</td></tr><tr><td>Max</td><td>-</td><td>2.97</td><td>-</td><td>-</td></tr><tr><td>Avg</td><td>-</td><td>2.16</td><td>-</td><td>-</td></tr><tr><td rowspan="3">Sodium Hypo Stack 2</td><td>Min</td><td>-</td><td>1.2</td><td>-</td><td>-</td></tr><tr><td>Max</td><td>-</td><td>4.11</td><td>-</td><td>-</td></tr><tr><td>Avg</td><td>-</td><td>2.23</td><td>-</td><td>-</td></tr><tr><td rowspan="3">HCl Stack 1</td><td>Min</td><td>2.75</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Max</td><td>6.11</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Avg</td><td>4.65</td><td>-</td><td>-</td><td>-</td></tr><tr><td rowspan="3">HCl Stack 2</td><td>Min</td><td>2.16</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Max</td><td>8.11</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Avg</td><td>5.46</td><td>-</td><td>-</td><td>-</td></tr><tr><td rowspan="3">HCl Stack 3</td><td>Min</td><td>3.05</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Max</td><td>7.82</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Avg</td><td>5.55</td><td>-</td><td>-</td><td>-</td></tr><tr><td rowspan="2">HCl Stack 4</td><td>Min</td><td>3.86</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Max</td><td>6.82</td><td>-</td><td>-</td><td>-</td></tr></table>	Range	HCl	Cl2	HF	PM	Sodium Hypo Stack 1	Min	-	1.24	-	-	Max	-	2.97	-	-	Avg	-	2.16	-	-	Sodium Hypo Stack 2	Min	-	1.2	-	-	Max	-	4.11	-	-	Avg	-	2.23	-	-	HCl Stack 1	Min	2.75	-	-	-	Max	6.11	-	-	-	Avg	4.65	-	-	-	HCl Stack 2	Min	2.16	-	-	-	Max	8.11	-	-	-	Avg	5.46	-	-	-	HCl Stack 3	Min	3.05	-	-	-	Max	7.82	-	-	-	Avg	5.55	-	-	-	HCl Stack 4	Min	3.86	-	-	-	Max	6.82	-	-	-
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Sr. No.	EC Conditions	Compliance Status				
		Avg	5.64	-	-	-
		Min	4.86	1.18	-	-
		Max	8.26	1.95	-	-
	PAC Liquid Plant	Avg	6.81	1.68	-	-
		Min	4.98	1.42	-	-
		Max	7.95	2.54	-	-
	PAC Powder Plant 1	Avg	6.68	1.97	-	-
		Min	4.96	1.5	-	-
		Max	8.09	2.37	-	-
	PAC Powder Plant 2	Avg	6.70	1.76	-	-
		Min	4.79	1.03	-	-
		Max	7.11	1.87	-	-
	Chlorinated Paraffin Plant	Avg	5.97	1.32	-	-
		Min	5.86	1.26	-	-
		Max	7.85	2.37	-	-
	Alluminium Chloride	Avg	6.62	1.82	-	-
		Min	5.18	1.22	-	-
		Max	7.23	2.97	-	-
	Stable Bleaching Powder Plant	Avg	6.35	2.06	-	-
		Min	8.02	-	1.64	-
		Max	8.02	-	1.64	-
	Phosphoric Acid Plant	Avg	8.02	-	1.64	-
		Min	7.91	-	-	-
		Max	7.91	-	-	-
	Calcium Chloride	Avg	7.91	-	-	-
		Min	-	-	-	16.28
		Max	-	-	-	27.08
	Vent attached to Dryer 1 (HSBP)	Avg	-	-	-	21.91
		Min	3.86	-	-	-
		Max	6.95	-	-	-
	CMS Plant (Hydrochlorinator)	Avg	5.85	-	-	-
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"> • Complied • The Air Pollution Control Equipment (APCE) attached with different stacks are operated efficiently and effectively to achieve the GPCB/ CPCB / MoEF&CC prescribed norms. • We have provided adequate stack height as per prevailing norms for the process emissions. 				
18	Online monitoring system shall be installed to monitor at least SOX & PM concentrations in the flue gas emission and the results shall be displayed at strategic locations in the premises.	<ul style="list-style-type: none"> • Complied • We have installed Online monitoring system to monitor SOX, NOX & PM concentrations in both the stacks of power plant. • The results are displayed in the DCS system of power plant. 				
19	Adequate air pollution control systems shall be	<ul style="list-style-type: none"> • Complied 				



Sr. No	EC Conditions	Compliance Status
	<p>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.</p>	<ul style="list-style-type: none"> We have installed Dust tamers to control coal dust emission. Water sprinklers are provided to control the fugitive emission at coal storage, coal transfer points and truck unloading area. We have provided dust suppression along coal storage locations, paddle type dust conditions for wetting the fly ash during unloading etc. Fly ash is stored in silo and transferred in close trucks to avoid any dust emission.
		
20	<p>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).</p>	<ul style="list-style-type: none"> Complied Fugitive emissions in work zone environment & storage area are monitored by third party on monthly basis and are well within GPCB stipulated norms.
21	<p>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.</p>	<ul style="list-style-type: none"> Complied Regular performance evaluation of ETP & STP is undertaken every year and checked for adequacy by GPCB authorized 3rd party Schedule-I Environment Auditor and its record is maintained. Copy of is attached as Annexure-7.
22	<p>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.</p>	<ul style="list-style-type: none"> Complied Regular monitoring of ground level concentration of CS2, SO2, NOX, Cl2, HCl, PM10 and PM2.5 is carried out through third party in the impact zone and its records are maintained. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately. The location of the monitoring stations and frequency of monitoring are decided in consultation with GPCB. There are 4 nos. of ambient air quality monitoring stations covering all directions in nearby villages (Derol, Sarnar, Argama & Vilayat).
23	<p>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.</p>	<ul style="list-style-type: none"> Complied The air pollution control systems are operated efficiently and effectively to achieve the norms prescribed by the GPCB/ CPCB/ MoEF&CC at vent/ stack outlets.
24	<p>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.</p>	<ul style="list-style-type: none"> Not Applicable Volatile Organic Compounds are not used in our plant hence we are not monitoring VOC's.



Sr. No	EC Conditions	Compliance Status				
25	All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<ul style="list-style-type: none">CompliedAll the vessels used in the manufacturing process are closed to reduce the fugitive emission.				
A.4 SOLID / HAZARDOUS WASTE:						
26	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	<ul style="list-style-type: none">CompliedWe 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 & M/s. Safe Enviro, Jambusar.Copy of the membership certificate is attached as Annexure-3.	Authorization No.	AWH-98281	Validity	02/03/2024
Authorization No.	AWH-98281					
Validity	02/03/2024					
<p style="text-align: center;">Waste Storage Area</p> <div></div>						
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.	<ul style="list-style-type: none">CompliedWe 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:				
<div></div>						

Sr. No	EC Conditions	Compliance Status
		
28	ETP waste, Brine / process Sludge, Spent Resin & Spent carbon from filters will be disposed off at the nearby common TSDF.	<ul style="list-style-type: none"> • Complied • We are member TSDF site operated by M/s. Bharuch Enviro Infrastructure Ltd & M/s. Safe Enviro, Jambusar. • Copy of the membership certificate is attached as Annexure-3.
29	Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination.	<ul style="list-style-type: none"> • Complied • We are disposing Discarded barrels / containers / bags / liners to GPCB approved registered recyclers only.
30	Used oil shall be sold only to the registered recyclers.	<ul style="list-style-type: none"> • Complied • Used Oil is sold to Registered recyclers only.
31	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.	<ul style="list-style-type: none"> • Complied • We are a member of TSDF & CHWIF site operated by M/s. BEIL Infrastructure Ltd. & M/s. Safe Enviro, Jambusar. • Copy of the membership certificate is attached as Annexure-3.
32	Vehicles used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	<ul style="list-style-type: none"> • Complied • We are complying with rules under Motor Vehicle Act, 1988 for transportation of hazardous waste. • Photograph of Hazardous Waste disposal Tanker:
		

Sr. No	EC Conditions	Compliance Status
33	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/ CHWIF.	<ul style="list-style-type: none"> • Complied • We have explored Nano technology such as Sulphate Extraction System to reduce the quantity of sludge generated from Chlor-alkali plant by 30%. Further we have also installed sludge dryer for drying of sludge.
A.5	SAFETY:	
34	The company shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended.	<ul style="list-style-type: none"> • Complied • We are following MSHIC Rules, 1989 and Factories Act, 1948. • All the chemicals/ materials are stored in the storage tanks with required material of Construction. • Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines. • Fire Hydrant system is provided nearby storage and handling area for emergency purpose. • Safety trainings are provided to all the operators and workers working in such areas. • Hazard Identification and Risk Assessment (JSA) of 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"> • Complied • We are complying with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. has been obtained. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities obtained before commissioning of the project. Copy of PLI policy is attached as Annexure-5. • Requisite On-site and Off-site Disaster Management Plans prepared and implemented.
36	All the recommendations/ commitments made in the revised EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad and submitted vide letter No. NIL dated 29/06/2016 shall be implemented in letter and spirit.	<ul style="list-style-type: none"> • Complied • All the recommendations/ commitments made in the revised EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad have been implemented.

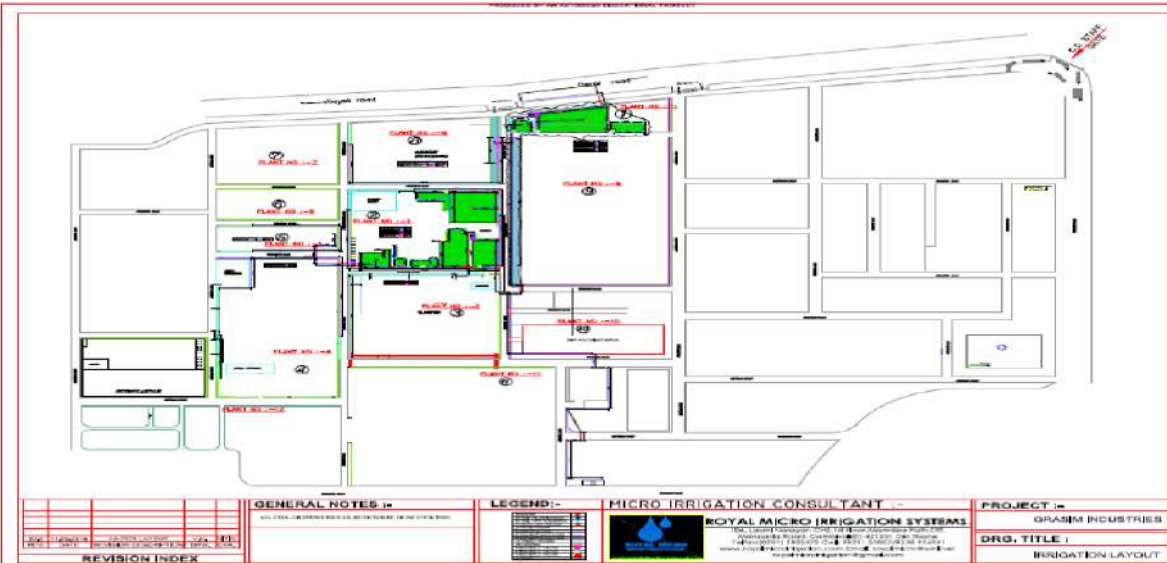
Sr. No	EC Conditions				Compliance Status	
	Description	Type of pollutant / Wastes	Source	Pollution control Arrangement / mitigation measures	Compliance measure	
	Air Environment	PM, SO ₂ , Nox	Boiler	<ul style="list-style-type: none">• ESP and low Nox burner are provided to control the particulate matter and Nox respectively• Lime stone are added to reduce SO₂ emissions	<ul style="list-style-type: none">• We have installed ESP & Low NOx Burner with our boiler stack to control the particulate matter and Nox respectively.• We are using lime stone to reduce emission of SO₂	
		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 .• Covering of all open surfaces wherever possible .• Sensors are provided in work place area .	<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• All open surfaces are covered• Sensors have been provided in work place area.	
		CO ₂ and other gases	Fugitive emission from sources such as ope surfaces, ETP, sufaces impoundments, retention ponds.			
	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	Structre - borne noise: the vibration transmitted may activate the building where it mouted without proper installation. Air borne noise due to air turbulence at equipment / structre and etc.	Vechile , Transportation, Water Cooling Towers, Air - cooled chillers, Fans, Ducts, Others plant equipment & machinery.	<ul style="list-style-type: none">• To reduce the noise generation durning the transportation activities the vechile are kept periodically services and maintained as per the requirement of latest trends in automobile industry .• Acoustic mat on the water surface is provided to reduce the water splashing noise .• All the vibrating parts is checked periodically and serviced to reduce the noise generation .• Complete enclosure with silencers at condenser fan outlets and at air 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 is 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 / Paticulate 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 remnnant 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.				<ul style="list-style-type: none">• Complied• We have developed job safety analysis procedure and trainings have been provided to all employees. Proper controls are provided to mitigate any emergency.	
38	Storage of flammable chemicals shall be sufficiently away from the production area.				<ul style="list-style-type: none">• Complied• We have provided tanks and vessels to store hazardous chemicals with proper controls such as Dyke wall, Level Transmitters, safety valves and interlocks are provided in DCS.• Photograph of tank:	
						
39	Sufficient no. of fire extinguishers shall be provided near the plant and storage area.				<ul style="list-style-type: none">• Complied• Sufficient nos. of Fire extinguishers are provided.	
40	All necessary precautionary measures shall be taken				<ul style="list-style-type: none">• Complied	


Sr. No.	EC Conditions	Compliance Status
	to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Complied All the toxic/ hazardous chemicals stored in optimum quantity and all necessary permissions in this regard obtained before commencing the expansion activities.
42	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	<ul style="list-style-type: none"> Complied We have identified the environment protection measures & risks and take mitigate measures accordingly.
43	Only flame proof electrical fittings shall be provided in the plant premises.	<ul style="list-style-type: none"> Complied Flame proof electrical fittings are provided in the required plant area.
44	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks/ containers instead of one single large capacity tank / containers.	<ul style="list-style-type: none"> Complied Storage of hazardous chemicals is minimized and stored in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
45	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/ dyke walls shall be provided, for storage tanks for Hazardous Chemicals.	<ul style="list-style-type: none"> Complied All the storage tanks fitted with appropriate controls to avoid any leakages. Bund/ dyke walls are provided, for storage tanks for Hazardous Chemicals. Photograph of storage tanks:
		
46	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	<ul style="list-style-type: none"> Complied Handling and charging of the chemicals are in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
47	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	<ul style="list-style-type: none"> Complied OHC with availability of para-medical staff & ambulance is available round the clock. We have also tied up with M/s. Apex Multispecialty Hospital at Bharuch.
48	Personal Protective Equipment's shall be provided to workers and its usage shall be ensured and supervised.	<ul style="list-style-type: none"> Complied We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
49	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<ul style="list-style-type: none"> Complied We have 60 Nos. of first aid boxes at different locations of our plant containing required antidote for the chemicals used in the plant.
50	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<ul style="list-style-type: none"> Complied Training is imparted to all the workers at regular intervals for safety and health during chemical handling, Emergency Preparedness, etc.



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		<ul style="list-style-type: none">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:																																																																										
	<div><div><div></div><div><h2>Monthly Training Calendar</h2></div></div><div><div><table><thead><tr><th>Cadre</th><th>Faculty Type</th><th>Training Topic</th><th>Dates</th><th>Faculty</th></tr></thead><tbody><tr><td>Selected</td><td>External</td><td>VAM</td><td>12-03-2024</td><td>M/s Thermax</td></tr><tr><td>SH & DH</td><td>Internal</td><td>Awareness on reward and recognition</td><td>23-04-2024</td><td>Mr. Prabhudatta Sahu</td></tr></tbody></table><table><thead><tr><th>Cadre</th><th>Faculty Type</th><th>Training Topic</th><th>Dates</th><th>Faculty</th></tr></thead><tbody><tr><td>Selected</td><td>External</td><td>Scaffolding training</td><td>18-03-2024</td><td>Naik & associate</td></tr><tr><td>Applicable to all</td><td>Internal</td><td>PTW, HIRA, LOTO and Emergency Awareness</td><td>05-03-2024</td><td>Team EHS</td></tr><tr><td>ERT Team</td><td>Internal</td><td>Emergency Awareness</td><td>06-03-2024</td><td>Team EHS</td></tr><tr><td>Applicable to all</td><td>Internal</td><td>MSDS & PPE</td><td>08-03-2024</td><td>Team EHS</td></tr><tr><td>Applicable to all</td><td>Internal</td><td>Permit to work</td><td>21-03-2024</td><td>Team EHS</td></tr></tbody></table><table><thead><tr><th>Cadre</th><th>Faculty Type</th><th>Training Topic</th><th>Dates</th><th>Faculty</th></tr></thead><tbody><tr><td>S1 and below</td><td>External</td><td>Supervisory Development</td><td>20-03-2024</td><td>External</td></tr></tbody></table><table><thead><tr><th>Cadre</th><th>Faculty Type</th><th>Training Topic</th><th>Dates</th><th>Faculty</th></tr></thead><tbody><tr><td>Applicable to all</td><td>Internal</td><td>IMS awareness</td><td>25-03-2024</td><td>Ms. Smita Ramteke</td></tr></tbody></table><table><thead><tr><th>Cadre</th><th>Training Topic</th><th>Training type</th></tr></thead><tbody><tr><td>S3 & above</td><td>ABG Purpose</td><td>Behavioral</td></tr><tr><td>JB 10 & Above</td><td>Upscaled</td><td>Behavioral</td></tr></tbody></table></div><div><div>March 2024</div><div>ATTENTION PLEASE</div><div></div></div></div></div>		Cadre	Faculty Type	Training Topic	Dates	Faculty	Selected	External	VAM	12-03-2024	M/s Thermax	SH & DH	Internal	Awareness on reward and recognition	23-04-2024	Mr. Prabhudatta Sahu	Cadre	Faculty Type	Training Topic	Dates	Faculty	Selected	External	Scaffolding training	18-03-2024	Naik & associate	Applicable to all	Internal	PTW, HIRA, LOTO and Emergency Awareness	05-03-2024	Team EHS	ERT Team	Internal	Emergency Awareness	06-03-2024	Team EHS	Applicable to all	Internal	MSDS & PPE	08-03-2024	Team EHS	Applicable to all	Internal	Permit to work	21-03-2024	Team EHS	Cadre	Faculty Type	Training Topic	Dates	Faculty	S1 and below	External	Supervisory Development	20-03-2024	External	Cadre	Faculty Type	Training Topic	Dates	Faculty	Applicable to all	Internal	IMS awareness	25-03-2024	Ms. Smita Ramteke	Cadre	Training Topic	Training type	S3 & above	ABG Purpose	Behavioral	JB 10 & Above	Upscaled	Behavioral
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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.	<ul style="list-style-type: none">CompliedOccupational health surveillance of the workers is done and its records are maintained.Six monthly pre-employment and periodical examination for all the workers is being carried out.100% employees undergo with occupational health surveillance every 6 month/ 12 month depending on exposure. Record is available with Occupational Health Centre. Sample report is attached as Annexure-6.																																																																										
52	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<ul style="list-style-type: none">CompliedWe are following Central Motor Vehicles Rule - 9 for Hazardous chemical transportation.																																																																										
53	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<ul style="list-style-type: none">CompliedThe company will implement all preventive and mitigation measures suggested in the Risk Assessment Report.																																																																										
54	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	<ul style="list-style-type: none">CompliedNecessary 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	<ul style="list-style-type: none">CompliedThe overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including																																																																										

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	etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<p>acoustic insulation, silencers, enclosures etc. on all sources of noise generation.</p> <ul style="list-style-type: none">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: <table><tr><th colspan="4">Noise Results (Oct 23 to March 24)</th></tr><tr><th colspan="4">Reading dB(A)</th></tr><tr><th>Station</th><th>Range</th><th>Day</th><th>Night</th></tr><tr><td rowspan="3">Nr. Main Gate</td><td>MIN</td><td>68</td><td>59</td></tr><tr><td>MAX</td><td>72</td><td>64</td></tr><tr><td>AVG</td><td>70</td><td>62</td></tr><tr><td rowspan="3">Nr. ALCP Plant</td><td>MIN</td><td>65</td><td>57</td></tr><tr><td>MAX</td><td>70</td><td>65</td></tr><tr><td>AVG</td><td>67</td><td>61</td></tr><tr><td rowspan="3">Nr. PAC Old Powder Plant</td><td>MIN</td><td>62</td><td>57</td></tr><tr><td>MAX</td><td>67</td><td>61</td></tr><tr><td>AVG</td><td>65</td><td>59</td></tr><tr><td rowspan="3">Nr. Cl2 Liquifaction Area</td><td>MIN</td><td>61</td><td>50</td></tr><tr><td>MAX</td><td>69</td><td>65</td></tr><tr><td>AVG</td><td>65</td><td>57</td></tr><tr><td rowspan="3">Nr. Cl2 Tonner filling Area</td><td>MIN</td><td>69</td><td>63</td></tr><tr><td>MAX</td><td>72</td><td>68</td></tr><tr><td>AVG</td><td>70</td><td>65</td></tr><tr><td rowspan="3">Nr. Cl2 compressor area</td><td>MIN</td><td>65</td><td>60</td></tr><tr><td>MAX</td><td>73</td><td>69</td></tr><tr><td>AVG</td><td>69</td><td>65</td></tr><tr><td rowspan="3">Nr ETP</td><td>MIN</td><td>66</td><td>57</td></tr><tr><td>MAX</td><td>72</td><td>67</td></tr><tr><td>AVG</td><td>69</td><td>62</td></tr><tr><td rowspan="3">Nr Coal Tippler</td><td>MIN</td><td>68</td><td>62</td></tr><tr><td>MAX</td><td>73</td><td>68</td></tr><tr><td>AVG</td><td>71</td><td>65</td></tr><tr><td rowspan="3">Nr VAM Chiller area</td><td>MIN</td><td>64</td><td>57</td></tr><tr><td>MAX</td><td>68</td><td>62</td></tr><tr><td>AVG</td><td>66</td><td>60</td></tr><tr><td rowspan="3">Nr Utility compressor area</td><td>MIN</td><td>70</td><td>64</td></tr><tr><td>MAX</td><td>72</td><td>68</td></tr><tr><td>AVG</td><td>71</td><td>65</td></tr><tr><td rowspan="3">Nr Compressor Area</td><td>MIN</td><td>64</td><td>65</td></tr><tr><td>MAX</td><td>69</td><td>68</td></tr><tr><td>AVG</td><td>68</td><td>66</td></tr><tr><td rowspan="3">Nr HSBP Dryer</td><td>MIN</td><td>65</td><td>59</td></tr><tr><td>MAX</td><td>69</td><td>61</td></tr><tr><td>AVG</td><td>67</td><td>60</td></tr></table>	Noise Results (Oct 23 to March 24)				Reading dB(A)				Station	Range	Day	Night	Nr. Main Gate	MIN	68	59	MAX	72	64	AVG	70	62	Nr. ALCP Plant	MIN	65	57	MAX	70	65	AVG	67	61	Nr. PAC Old Powder Plant	MIN	62	57	MAX	67	61	AVG	65	59	Nr. Cl2 Liquifaction Area	MIN	61	50	MAX	69	65	AVG	65	57	Nr. Cl2 Tonner filling Area	MIN	69	63	MAX	72	68	AVG	70	65	Nr. Cl2 compressor area	MIN	65	60	MAX	73	69	AVG	69	65	Nr ETP	MIN	66	57	MAX	72	67	AVG	69	62	Nr Coal Tippler	MIN	68	62	MAX	73	68	AVG	71	65	Nr VAM Chiller area	MIN	64	57	MAX	68	62	AVG	66	60	Nr Utility compressor area	MIN	70	64	MAX	72	68	AVG	71	65	Nr Compressor Area	MIN	64	65	MAX	69	68	AVG	68	66	Nr HSBP Dryer	MIN	65	59	MAX	69	61	AVG	67	60
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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">CompliedWe 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.	<ul style="list-style-type: none">CompliedThe energy audit is being conducted as per BEE guidelines.																																																																																																																																				

Sr. No.	EC Conditions	Compliance Status
		<ul style="list-style-type: none"> M&V audit conducted for PAT cycle-2. We are ISO 50001:2011 certified industry. Copy of certificate is attached as Annexure-10.
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.	<ul style="list-style-type: none"> Complied Solar landscaping lights are installed for Admin Building and roof mounted solar panels are also installed.
59	The transformers and motors shall have minimum efficiency of 85%.	<ul style="list-style-type: none"> Noted & Complied All transformers are of higher efficiency > 98 %
60	Variable frequency drives shall be installed.	<ul style="list-style-type: none"> Complied 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.	<ul style="list-style-type: none"> Complied We have only LED light fixtures across the site.
62	Energy saving practices as follows shall be practiced.	
	Constant monitoring of energy consumption and defining targets for energy conservation.	<ul style="list-style-type: none"> Complied We have energy meters and energy monitoring system for measuring energy.
	Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort level.	<ul style="list-style-type: none"> Complied Light fixtures have been installed as per lux level requirement in the different area.
	Use of solar cells for lighting.	<ul style="list-style-type: none"> Complied We have installed solar cells on admin building terrace.
	Use of solar water heater for canteen & washing area.	<ul style="list-style-type: none"> We are exploring for the possibilities.
	Proper load factor shall be maintained by the unit.	<ul style="list-style-type: none"> We are maintaining the load factor.
	Provision of day light roof to utilize maximum natural light in the production plant instead of electrical lighting.	<ul style="list-style-type: none"> We have provided day light roof such as new work shop, PAC plant etc.
	Use of electronic ballast to save energy.	<ul style="list-style-type: none"> We have installed LED lights.
	Automatic switching system for lighting & water tank pumping shall be used.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> We have designed our plant accordingly.
	Promoting awareness on energy conservation.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Complied We have carried out Cleaner Production Assessment studies by Gujarat Cleaner Production Centre (Established by Industries & Mines Department, Government of Gujarat).
64	The company shall undertake following waste minimization measures:	
(i)	Metering and control of quantities of active ingredients to minimize waste.	<ul style="list-style-type: none"> Complied We have provided flow meters for wastewater generation. We have installed RO system for reducing the effluent. Recycle steam and vapor condensate is used in

Sr. No	EC Conditions	Compliance Status
		<p>process & cooling tower.</p> <ul style="list-style-type: none"> We use super washed salt to reduce chemical consumption in turn to reduce solid waste generation.
(ii)	Reuse of by-products from the process as raw materials substitutes in other process.	<ul style="list-style-type: none"> Complied We are using Hydrogen as a clean fuel for producing Caustic Soda flakes & Poly Aluminum Chloride. Use of waste chlorine gas for producing 32% HCl. Vapor condensate from flaking plant treated by polishing unit and finally used as DM water. By-product HCl from CPW Plant is used in PAC plant as raw material.
(iii)	Use of automated and enclosed filling to minimize spillages.	<ul style="list-style-type: none"> Complied We are using automated and closed filling to minimize spillages.
(iv)	Use of close feed system into batch reactors.	<ul style="list-style-type: none"> Complied We are using close feed system into batch reactors.
(v)	Dry cleaning / mopping of floor instead of floor washing.	<ul style="list-style-type: none"> Complied Floors are cleaned through mopping.
(vi)	Use of high pressure hoses for cleaning to reduce wastewater generation.	<ul style="list-style-type: none"> Complied High pressure hoses are used for cleaning and reduce the wastewater.
A.8 GREEN BELT AND OTHER PLANTATION:		
64	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in the GIDC estate, nearby schools, gram panchayat areas and any other open areas in consultation with the GIDC/ local bodies/ GPCB and submit an action plan of plantation for next three years to the GPCB.	<ul style="list-style-type: none"> Complied We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. We have already planted about 13727 trees within plant premises. As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
65	Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development.	<ul style="list-style-type: none"> Complied Drip irrigation/ low-volume, low angle sprinklers are used for green belt development. Total 22,000 m2 area is covered under drip irrigation & low angle sprinkler system.
Please Refer STP Network		
 <p>The diagram is a detailed site plan for the plant premises, showing the layout of the building complex, surrounding open areas, and a network of roads. The plan is titled 'IRIGATION LAYOUT' and includes a 'GENERAL NOTES' section. The legend at the bottom identifies different types of plantations and irrigation systems. The diagram shows various areas labeled for green belt development, including 'PLANTATION AREA', 'Drip Irrigation Area', and 'Sprinkler Area'. The plan also shows the location of the STP Network and the location of the plant premises.</p>		

Sr. No.	EC Conditions	Compliance Status
B	OTHER CONDITIONS:	
66	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	<ul style="list-style-type: none"> • Complied • All pollution control systems installed in our plant are directly connected with process safety inter locks from DCS. • For ensure, all the safe requirements meet before any start up. • We are also following pre-start up safety review before restart of the system.
67	All the recommendations / commitments made in the EIA report of the project prepared by M/s. Anand Consultants, Ahmedabad and submitted vide letter no. NIL dated 29/06/2016 shall be implemented in letter and spirit.	<ul style="list-style-type: none"> • Complied • Recommendations made in the EIA/ EMP were submitted & implemented.
68	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	<ul style="list-style-type: none"> • Complied • We are complying stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority. • CCA Compliance Report is attached as Annexure-8.
69	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	<ul style="list-style-type: none"> • Complied • For material transfer, we have provided pipelines of required MOC in the plant. We have block the storm water drain connection point in the plant areas.
70	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<ul style="list-style-type: none"> • Complied • We have provided RCC and / acid brick line flooring in the required areas. • Photograph of RCC flooring: 
71	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	<ul style="list-style-type: none"> • Complied • We have provided pipelines of suitable MOC in the plant which ensures no leakages from the pipes / pumps.
72	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.	<ul style="list-style-type: none"> • Complied • All future expansion or modifications in the plant will be carried out after obtaining prior Environment Clearance from the concerned authority.
73	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.	<ul style="list-style-type: none"> • Complied • We are complying Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
74	The company shall undertake socio-economic developmental/ community welfare activities as per	<ul style="list-style-type: none"> • Complied • Socio-economic developmental / community

Sr. No	EC Conditions	Compliance Status																								
	the CSR Rules 2014.	<p>welfare activities are being carried out as per CSR Rules 2014.</p> <ul style="list-style-type: none"> CSR activities is summarized as per below table and the same is attached as Annexure-9 																								
75	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.	<ul style="list-style-type: none"> Complied Separate fund / budget is identified / sanctioned on annual basis for Environmental management. A year wise expenditure on environmental safeguards is also reported. <table border="1"> <thead> <tr> <th colspan="3">Fund Utilized for Environment Management</th></tr> <tr> <th>Sr. No</th><th>Particulars</th><th>Value (in Cr)</th></tr> </thead> <tbody> <tr> <td>1</td><td>CTE / CCA Application</td><td>0.15</td></tr> <tr> <td>2</td><td>GPCB sampling & analysis charges</td><td>0.05</td></tr> <tr> <td>3</td><td>Schedule-I Environment Audit</td><td>0.5</td></tr> <tr> <td>4</td><td>Monthly Monitoring by Third party</td><td>0.5</td></tr> <tr> <td>5</td><td>Waste Management</td><td>12</td></tr> <tr> <td>6</td><td>Green Belt Development</td><td>0.5</td></tr> </tbody> </table>	Fund Utilized for Environment Management			Sr. No	Particulars	Value (in Cr)	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
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76	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter in at least two local newspapers that are widely circulated in the region, one of which shall be in Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	<ul style="list-style-type: none"> Complied We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. <p>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</p>																								
																										
77	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	<ul style="list-style-type: none"> Noted & Complied We have not received any additional condition that may be imposed by the SEAC till date. We ensure that we shall comply with any additional condition that may be imposed by the SEAC or any other competent authority for the purpose of environmental protection. 																								
78	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory	<ul style="list-style-type: none"> Noted & Complied We are submitting half yearly compliance report to SEIAA in respect of the stipulated prior environmental clearance terms and conditions in 																								

Sr. No	EC Conditions	Compliance Status
	authority concerned, on 1st June and 1st December of each calendar year.	hard and soft copies regularly.
79	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<ul style="list-style-type: none"> • Noted • The data submitting herewith are factual and are not false / fabricated.
80	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<ul style="list-style-type: none"> • Noted & Complied • We are complying all the conditions stipulated by the Gujarat Pollution Control Board.
81	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<ul style="list-style-type: none"> • Noted • We have been complying the conditions issued by the SEIAA. • No suspension order issued by the SEIAA till date.
82	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	<ul style="list-style-type: none"> • Noted • We are implementing conditions stipulated by the board in a time bound manner.
83	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<ul style="list-style-type: none"> • Noted & Complied • The date of financial closure and final approval of the project by the concerned authorities and the date of starting the project are: • Date of financial closure: 31st March 2018 • Date of final approval of the project by the concerned authorities: 3rd April 2017
84	This environmental clearance is valid for seven years from the date of issue.	<ul style="list-style-type: none"> • Noted • The EC is valid for 7 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 encased the same via CTE and CCA.
85	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<ul style="list-style-type: none"> • Complied • There is no appeal against this environmental clearance lie with the National Green Tribunal.



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





Sr. No	EC Conditions					Compliance Status	
1	The proposal is for Environmental Clearance to M/s. Grasim Industries Ltd., for expansion of Captive Power Plant within the existing premises located at Plot No. -1, GIDC Industrial Estate, P.O.-Vilayat, Ta. Vagra, Dist.: Bharuch. It is an existing unit for manufacturing following, which falls in the category -1(d) of the schedule of the EIA Noitification-2006.					<ul style="list-style-type: none">• Noted• Copy of Environment Clearance is attached as Annexure-1.• We have obtained EC to CTE and CCA.	
	Sr. No	Name of Product/ Activity	Quantity (MT/Month)		End-use of product		
			Existi ng	Propo sed	Total		
	1	Captive Power Plant (CPP)	96 MW	45 MW	141 MW	Power Generation for Captiv e use	
A. CONDITIONS :							
A.1 SPECIFIC CONDITION :							
2	Unit shall comply the emission standards mentioned in the Notification by MoEF&CC vide no. S.O. 3305 (E) dated 07.12.2015 and amended time to time.					<ul style="list-style-type: none">• Complied• We are conducting Monthly Analysis of boiler emissions and the Report from Unistar Environment & Research Lab Pvt. Ltd as shown below:	
	Month/ Parameters	Power Plant Stack 1			Power Plant Stack 2		
		SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	SPM (mg/Nm3)	SO2 (ppm)	NOx (ppm)
	Oct 23	27	35	38	20	32	34
	Nov 23	23	38	35	26	36	32
	Dec 23	19	36	39	22	32	36
	Jan 24	16	84	66	19	94	58
	Fb 24	19	80	113	24	61	77
	Mar 24	24	72	125	26	64	83
	Min	16	35	35	19	32	32
	Max	27	84	125	26	94	83
	Avg.	21	58	69	23	53	53
3	Unit shall comply all the conditions stipulated in Coal Handling Guidelines published by GPCB.					<ul style="list-style-type: none">• Complied• We are complying all the conditions mentioned in Coal Handling Guideline published by GPCB.	
4	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/ or any other statutory authority.					<ul style="list-style-type: none">• Noted	
5	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.					<ul style="list-style-type: none">• Complied• At our site we are complying the National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009.• At our site we are conducting monthly Ambient Air Quality Monitoring through NABL & MoEFCC Approved Laboratory.	
6	Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time for CPP.					<ul style="list-style-type: none">• Complied• There was no Wastewater discharge outside the plant premises.• We are maintaining complete Zero Liquid Discharge (ZLD) all the time.	
7	All measures shall be taken to prevent soil and around water contamination.					<ul style="list-style-type: none">• Complied	



Sr. No	EC Conditions	Compliance Status																
		<ul style="list-style-type: none">Measures have been taken to prevent soil & ground water contamination.																
8	There shall be no drainage connection to discharge waste water from the premises.	<ul style="list-style-type: none">CompliedThere was no Wastewater discharge outside the plant premises.We are maintaining complete Zero Liquid Discharge (ZLD) all the time.																
A. 2	WATER:																	
9	The fresh water requirement for the proposed expansion shall not exceed 14883 KL/day. Unit shall reuse 11689 KLD [5870 KLD steam condensate from boiler for Boiler make-up, 4518 KLD permeate from RO plant for cooling tower make-up, washing and DM plant, 1301 KLD reject from RO plant for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning (45 KLD)] within premises. Hence, fresh water requirement shall not exceed 4495 KLD and it shall be met through GIDC water supply system. Permission from the Concern authority for additional water requirement shall be obtained.	<ul style="list-style-type: none">CompliedThe Fresh water requirement for the CPP plant not exceeded from 14883 KLD.Actual Water consumption quantity shown as below: <table><tr><th>Month</th><th>Water Consumption (KL/M)</th></tr><tr><td>Oct 23</td><td>285324</td></tr><tr><td>Nov 23</td><td>284247</td></tr><tr><td>Dec 23</td><td>303764</td></tr><tr><td>Jan 24</td><td>284772</td></tr><tr><td>Feb 24</td><td>170607</td></tr><tr><td>Mar 24</td><td>182373</td></tr><tr><td>Total</td><td>1511087</td></tr></table>	Month	Water Consumption (KL/M)	Oct 23	285324	Nov 23	284247	Dec 23	303764	Jan 24	284772	Feb 24	170607	Mar 24	182373	Total	1511087
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10	Metering of water shall be done and its records shall be maintained. No ground water shall be trapped in any case for meeting the project requirements.	<ul style="list-style-type: none">CompliedMetering facility has been installed and its record has been maintained.No groundwater is being trapped.Our source of water is GIDC Water supply only.																
11	Unit shall reuse 5870 KLD of Boiler condensate for Boiler feed water.	<ul style="list-style-type: none">CompliedWe are reusing Boiler Condensate for Boiler feed water.																
12	The industrial effluent generation after proposed expansion in power plant shall not exceed 6505 KL/day.	<ul style="list-style-type: none">CompliedThe industrial effluent generation has not been exceeded from 6505 KLD.																
13	Entire quantity of waste water shall be subjected to Primary ETP (Cap. 500 KLD X 2) followed by RO plant.	<ul style="list-style-type: none">CompliedEntire quantity of wastewater is being treated to ETP followed by RO plant only.																
14	RO permeate (5204 KLD) shall be reused for cooling tower make-up (4000 KLD), washing (75 KLD), DM plant (443 KLD) and gardening plantation (686 KLD) within premises.	<ul style="list-style-type: none">CompliedRO Permeate reused in cooling tower makeup, for Washing, in DM Plant and for gardening within plant premises only.																
15	RO reject (1301 KLD) shall be reused for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning (45 KLD) within premises.	<ul style="list-style-type: none">CompliedRO Reject reused for dust suppression to coal handling area, Sprinkling on Fly Ash and Road Cleaning within plant premises.																
16	Complete Zero Liquid Discharge (ZLD) shall be maintained and there shall be no discharge of industrial effluent in any case.	<ul style="list-style-type: none">CompliedThere was no Wastewater discharge outside the plant premises.We are maintaining complete Zero Liquid Discharge (ZLD) all the time.																
17	Domestic wastewater generation shall not exceed 6.4 KL/day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.	<ul style="list-style-type: none">CompliedDomestic Wastewater generation is not being exceeded from 6.4 KLD and the same is being treated in STP only.Treated sewage utilized for gardening and plantation purpose within plant premises.																
18	During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.	<ul style="list-style-type: none">Noted & Complied																
19	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	<ul style="list-style-type: none">Noted & Complied																


Sr. No.	EC Conditions	Compliance Status																																																						
20	The unit shall provide metering facility at the inlets and outlets of the collection cum reuse system of waste water and maintain records of the same.	<ul style="list-style-type: none">CompliedMetering facility has been provided at the inlets & outlets of the collection cum reuse system of wastewater and maintaining record of the same.																																																						
21	The unit shall provide adequate effluent treatment plant (ETP) with RO system for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve Zero Liquid Discharge (ZLD) for CPP by reusing entire waste water within premises.	<ul style="list-style-type: none">CompliedWe have provided 40 MLD capacity of Effluent treatment Plant (ETP) with RO system for treatment of industrial effluent and it is being operated regularly and efficiently to achieve Zero Liquid Discharge (ZLD).																																																						
22	The unit shall provide metering facility at the inlet and outlet of the ETP & RO system and maintain records for the same.	<ul style="list-style-type: none">CompliedMetering facility has been provided at the inlets & outlets of the ETP & RO system of and maintaining record of the same.																																																						
23	Proper logbooks of ETP, chemical consumption, quantities and qualities of effluent reuse, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	<ul style="list-style-type: none">CompliedProper logbook of ETP, Chemical consumption, quantities and qualities of effluent reuse, power consumption etc.																																																						
A. 3	AIR:																																																							
24	<div>Unit shall not exceed fuel consumption for steam boiler and stand-by DG set as mentioned below:</div> <table><thead><tr><th>Sr. No.</th><th>Source of emission with capacity</th><th>Stack Height (meter)</th><th>Name of the fuel</th><th>Quality of fuel MT/hr & MT/day</th><th>Type of emissions i.e. Air Pollutants</th><th>Air pollution Control Measures (APCM)</th></tr></thead><tbody><tr><td></td><td>Existing</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Boiler 1 & 2 (2 x 175 TPH)</td><td>125</td><td rowspan="2">Coal</td><td rowspan="2">100 MT/hr</td><td>SPM, SO₂, NO_x</td><td>ESP and Low NO_x burners</td></tr><tr><td>2</td><td>Boiler 3 & 4 (2 x 175 TPH)</td><td>125</td><td>SPM, SO₂, NO_x</td><td>ESP and Low NO_x burners</td></tr><tr><td></td><td>Proposed</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>Boiler-5 (175 TPH)</td><td>125</td><td>Coal</td><td>29.16 MT/hr</td><td>SPM, SO₂, NO_x</td><td>ESP and Low NO_x burners</td></tr></tbody></table>	Sr. No.	Source of emission with capacity	Stack Height (meter)	Name of the fuel	Quality of fuel MT/hr & MT/day	Type of emissions i.e. Air Pollutants	Air pollution Control Measures (APCM)		Existing						1	Boiler 1 & 2 (2 x 175 TPH)	125	Coal	100 MT/hr	SPM, SO ₂ , NO _x	ESP and Low NO _x burners	2	Boiler 3 & 4 (2 x 175 TPH)	125	SPM, SO ₂ , NO _x	ESP and Low NO _x burners		Proposed						3	Boiler-5 (175 TPH)	125	Coal	29.16 MT/hr	SPM, SO ₂ , NO _x	ESP and Low NO _x burners	<ul style="list-style-type: none">CompliedFuel consumption has never been exceeded from permitted quantity.Actual Fuel consumption as shown in below table:<table><thead><tr><th>Month</th><th>Coal (MT/ Month)</th></tr></thead><tbody><tr><td>Oct 23</td><td>64623</td></tr><tr><td>Nov 23</td><td>69601</td></tr><tr><td>Dec 23</td><td>71560</td></tr><tr><td>Jan 24</td><td>65782</td></tr><tr><td>Feb 24</td><td>61847</td></tr><tr><td>Mar 24</td><td>71402</td></tr></tbody></table>	Month	Coal (MT/ Month)	Oct 23	64623	Nov 23	69601	Dec 23	71560	Jan 24	65782	Feb 24	61847	Mar 24	71402
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25	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:	<ul style="list-style-type: none">CompliedAdequate APCM like Electrostatic Precipitator & Lime dosing system has been provided with Boilers.																																																						
26	There shall be no process gas emission from existing as well as from the proposed project.	<ul style="list-style-type: none">Noted & Complied																																																						
27	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	<ul style="list-style-type: none">CompliedProximate analysis has been carried out by third party and internal to check Sulfur & Ash content of the fuel before use.																																																						

Sr. No	EC Conditions	Compliance Status																																																																												
28	A long term study of radio activity and heavy metals contents on coal/ lignite to be used shall be carried out through a reputed institute and results thereof analysed regularly and reported along with monitoring reports thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/ lignite and fly ash (including bottom ash) shall be put in place.	<ul style="list-style-type: none">Noted & CompliedA long term study of radio activity and heavy metals contents on coal is being carried out through a reputed institute and results thereof analysed regularly and reported along with monitoring reports.																																																																												
29	Height of flue gas stacks attached to Boilers shall be minimum 125 meters.	<ul style="list-style-type: none">CompliedHeight of flue gas stacks attached to Boilers is 125 meter only.																																																																												
30	A flue gas stack of 125 m height shall be provided with online monitoring system to existing Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis.	<ul style="list-style-type: none">CompliedOnline monitoring system is being provided with all existing steam boilers and the mercury emission is also monitored on monthly basis through NABL approved laboratory.																																																																												
31	High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard prescribed in the Environment {Protection} Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.	<ul style="list-style-type: none">CompliedElectro Static Precipitators (ESP) with efficiency not less than 99.9% is being installed to control the flue gas emission.The ESP is being operated efficiently to ensure the PM emission not exceed the GPCB norms.We are carried out monitoring of Boiler emission on monthly basis through NABL approved laboratory and the report are as below:																																																																												
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32	Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.	<ul style="list-style-type: none">CompliedThird party monitoring of the functioning of the ESP along with its efficiency is being carried out once in a year through a reputed organisation.																																																																												
33	Lime stone injection technology shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.	<ul style="list-style-type: none">CompliedLime stone injection system has been provided to control SO2 emission.																																																																												
34	The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.	<ul style="list-style-type: none">Noted & Complied																																																																												
35	Online monitoring system shall be installed to monitor the SOx, NOx and SPM in the flue gas stack. An arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.	<ul style="list-style-type: none">CompliedOnline monitoring system is being provided with all existing steam boilers to monitor the SOx, NOx & SPM emission in the flue gas stacks.Also the online monitoring results has been reflected on the company's server and it is being assessable by the GPCB on real time basis.																																																																												

Sr. No	EC Conditions	Compliance Status
		
36	Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed.	<ul style="list-style-type: none"> • Complied • At our site we have provided adequate storage facility (Fly Ash Silos) for the fly ash. • We have not constructed any Ash pond at our site 
37	Handling of the fly ash shall be through a closed pneumatic system.	<ul style="list-style-type: none"> • Noted & Complied
38	Ash shall be handled only in dry state.	<ul style="list-style-type: none"> • Noted & Complied
39	The unit shall strictly comply with the Fly Ash Notification under the EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<ul style="list-style-type: none"> • Noted & Complied • We are complying the Fly Ash Notification on strictly basis and ensuring that we are utilizing 100% of fly ash. • Current stock of Fly ash is Zero.
40	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to lime (e.g. Directors of	<ul style="list-style-type: none"> • Noted & Complied

Sr. No.	EC Conditions	Compliance Status
	Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.	
(i)	All handling & transport of coal shall be exercised through covered coal conveyors only.	<ul style="list-style-type: none"> Noted & Complied All handling & transport of coal is being exercised through covered conveyors only. 
(ii)	Enclosure shall be provided at Coal loading and unloading operations.	<ul style="list-style-type: none"> Noted & Complied 
(iii)	Water shall be sprinkled on Coal stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.	<ul style="list-style-type: none"> Complied Water has been sprinkled on frequent basis to reduce fugitive emission. 
(iv)	All transfer points shall be fully enclosed.	<ul style="list-style-type: none"> Complied
(v)	Adequate dust suppression/ extraction system at crusher house as well as for the Coal/ Lignite stock yard and other vulnerable areas shall be provided to abate dust nuisance.	<ul style="list-style-type: none"> Noted & Complied
(vi)	Accumulated coal dust/ fly ash on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.	<ul style="list-style-type: none"> Noted & Complied 

Sr. No	EC Conditions	Compliance Status
(vii)	Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.	<ul style="list-style-type: none"> • Noted & Complied 
(viii)	Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.	<ul style="list-style-type: none"> • Noted & Complied 
(ix)	Coal/ Lignite shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.	<ul style="list-style-type: none"> • Noted & Complied  
(x)	A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.	<ul style="list-style-type: none"> • Noted & Complied • A three layer greenbelt has been developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
41	Regular monitoring of ground level concentration of PM2.5, PM10, NOx, SO2 and Hg shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control	<ul style="list-style-type: none"> • Complied • Monthly Ambient monitoring has been carried out through NABL approved laboratory.

Sr. No.	EC Conditions	Compliance Status
	measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	
A. 4	SOLID / HAZARDOUS WASTE:	
42	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	<ul style="list-style-type: none"> • Noted & Complied • At our site we are strictly complying the rules & regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. • CCA has been obtained from GPCB, Gandhinagar on 07/02/2024.
43	Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with imperious bottom and leachate collection facility, before its disposal.	<ul style="list-style-type: none"> • Complied • We have provided a designated storage facility with imperious bottom and leachate collection facility to store hazardous waste storage.
44	ETP waste & spent resin shall be disposed off to authorized TSDF site.	<ul style="list-style-type: none"> • Noted & Complied
45	Used oil shall be sold to only to the registered recyclers/rerefiners.	<ul style="list-style-type: none"> • Noted & Complied
46	Discarded containers / barrels / bags / liners shall be sold only to the authorized registered recycler.	<ul style="list-style-type: none"> • Noted & Complied
47	For storage of fly ash, closed silos of adequate capacity shall be provided. No ash pond shall be constructed in the project.	<ul style="list-style-type: none"> • Complied • At our site we have provided adequate storage facility (Fly Ash Silos) for the fly ash. • We have not constructed any Ash pond at our site 
48	Fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<ul style="list-style-type: none"> • Complied • Fly Ash has been supplied to Cement manufacturing industries, Brick manufacturing industries and used for road reclamation projects. • At our site we are strictly complying with the Fly Ash Notification under EPA and ensuring that there is 100% utilization of fly ash to be generated from the unit. Current fly ash stock is Zero.
49	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<ul style="list-style-type: none"> • Noted
50	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.	<ul style="list-style-type: none"> • Noted & Complied
A. 5	SAFETY:	
51	The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as Manufacture, Storage and Impact	<ul style="list-style-type: none"> • Complied • We are following MSIHC Rules, 1989 and Factories Act, 1948.

Sr. No	EC Conditions	Compliance Status
	of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals.	<ul style="list-style-type: none"> All the chemicals/ materials are stored in the storage tanks with required material of Construction. Sufficient dykes are provided at Tank storages as per chemical handling and storage guidelines. Fire Hydrant system is provided nearby storage and handling area for emergency purpose. Safety trainings are provided to all the operators and workers working in such areas. Hazard Identification and Risk Assessment (JSA) of all activities carried out and SOPs are prepared accordingly. Safety showers are provided nearby storage areas..
52	Necessary precautions like continuous monitoring of hot spots [ignited lignite] using temperature detection systems, water sprinklers, avoiding stacking of lignite near steam pipeline etc. shall be made for storing lignite to prevent fire hazard.	<ul style="list-style-type: none"> Noted & Complied
53	All the risk mitigation measures, general & specific recommendations mentioned in Risk Assessment Report shall be implemented.	<ul style="list-style-type: none"> Complied As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly.
54	A well designed fire hydrant system shall be installed as per the prevailing standards.	<ul style="list-style-type: none"> Complied Fire hydrant system installed as per TAC (Tariff Advisory Committee) guidelines. CA Plant Fire Water Reservoir Storage Capacity: 3000 KL Fire Tender Details: Water capacity: 5000 liter Foam capacity: 500 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Single Headed Hydrant: 100 Nos Fire Hose Reel: 22 Nos DCP Extinguisher: 100 kg (50 kg × 2 Nos.), CO2 Extinguishers: 22.5 kg × 4 Nos. CMS plant Fire Foam Tender Details: Water capacity: 4000 liter Foam capacity: 2000 liter Emergency Rescue Vehicle for attending outside emergencies: 1 No. Fire Water Reservoir Storage Capacity: 2950 KL Fire extinguisher total 95 nos. ABC: 68 nos. CO2: 17 nos. Foam type: 10 nos. Hydrant: 33 nos. Monitor: 5 nos. Hose reel: 10 nos. Foam capacity: 7500 L
55	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	<ul style="list-style-type: none"> Complied We have provided proper job specific PPEs to all the workers and its usage is ensured and supervised regularly.
56	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.	<ul style="list-style-type: none"> Complied Occupational health surveillance of the workers is done and its records are maintained. Six monthly pre-employment and periodical examination for all the workers is being carried out.

Sr. No.	EC Conditions	Compliance Status
57	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the factories act & rules.	<ul style="list-style-type: none"> • Complied • Occupational health surveillance of the workers is done and its records are maintained. • Six monthly pre-employment and periodical examination for all the workers is being carried out.
58	Flameproof fillings shall be provided in the plant area.	<ul style="list-style-type: none"> • Complied
59	Adequate firefighting facilities shall be provided at the proposed power plant.	<ul style="list-style-type: none"> • Complied
60	Proper ventilation shall be provided in the work area.	<ul style="list-style-type: none"> • Complied
61	All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	<ul style="list-style-type: none"> • Complied
62	The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.	<ul style="list-style-type: none"> • Complied
A. 6	NOISE:	
63	To minimize the noise pollution the following noise control measures shall be implemented:	
(i)	Selection of any new plant equipment shall be made with specification of low noise levels.	<ul style="list-style-type: none"> • Complied • We have procured and installed standardize equipment in our plant. We are regularly monitoring noise level of the plant area.
(ii)	Manufacturers/ suppliers of major noise generating machines/ equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national/ international regulatory norms with respect to noise generation for individual units.	<ul style="list-style-type: none"> • Complied • During our procurement, we are instructing our Manufacturers/ suppliers to make required design modifications in equipments like air compressors, feeder pumps, turbine generators, etc. to mitigate the noise generation and to comply with the national/ international regulatory norms. • We are regularly monitoring noise level of the plant area as per schedule.
(iii)	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.	<ul style="list-style-type: none"> • Complied • Regular maintenance of machinery and vehicles are undertaken to reduce the noise impact and also considered upgraded version equipment with reputed vendors to ensure minimal noise impact.
(iv)	Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.	<ul style="list-style-type: none"> • Complied • Noise suppression measures have been provided at D. G. Sets with acoustic enclosures, utility compressors in well-ventilated area with noise protection.
(v)	Employees shall be provided with ear protection measures like earplugs or earmuffs.	<ul style="list-style-type: none"> • Complied • Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection' in such locations.
(vi)	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"> • Complied • Proper oiling, lubrication and preventive maintenance is carried out of the machineries and equipment to reduce noise generation. • We are following different maintenance practices such as Preventive Maintenance, Predictive Maintenance, Condition based Maintenance and also maintenance prevention with joint collaboration with vendors/ new technology at our site.

Sr. No.	EC Conditions	Compliance Status
(vii)	Construction equipment generating minimum noise and vibration shall be chosen.	<ul style="list-style-type: none"> Complied We have procured and installed equipment like compressors of the companies such as Kirloskar, Ingersoll pneumatic etc. with silencers and Pumps such as Micro finish, Rajedia, Johnson, Trittech etc.
(viii)	Ear plugs and/ muffs shall be made compulsory for the construction workers working near the noise generating activities/ machines/ equipment.	<ul style="list-style-type: none"> Complied Earplugs and earmuffs are provided to all the workers working in high noise area and we have displayed caution notice 'High Noise Area - Use ear protection' in such locations
(ix)	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate .	<ul style="list-style-type: none"> Complied Vehicles and construction equipment with internal combustion engines without proper silencer are not allowed to operate at our site.
(x)	Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.	<ul style="list-style-type: none"> Complied Construction equipment meeting the norms specified by EP Act 1986 are used.
(xi)	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.	<ul style="list-style-type: none"> Complied Noise control equipment such as Silencers are provided in Emergency D. G. sets which are used as power back up in case of emergency and any other potential areas are also considered with the same.
(xii)	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.	<ul style="list-style-type: none"> Complied We have provided silencers/ mufflers on such noise generator equipment to reduce the noise levels.
64	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules	<ul style="list-style-type: none"> Complied The overall noise level in and around the plant area is kept well within the prescribed standards by providing noise control measures including acoustic insulation, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels are conforming to the standards prescribed under the Environment (Protection) Act and Rules.
A. 7	GREEN BELT AND OTHER PLANTATION:	
65	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.	<ul style="list-style-type: none"> Complied We have appointed a Horticulture Expert to develop & maintain the greenbelt properly. We have already planted about 13727 trees within plant premises. As we have no adequate land available within our plant premises, we have planted trees of about 95,000 trees in nearby GIDC Area/Villages open area.
66	Drip irrigation/ low-volume, low-angle sprinkler system shall be used for the green belt development within the premises	<ul style="list-style-type: none"> Complied Drip irrigation / low-volume, low angle sprinklers are used for green belt development. Total 22,000 m² area is covered under drip irrigation & low angle sprinkler system.
B	OTHER CONDITIONS:	
67	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.	<ul style="list-style-type: none"> Noted & Complied
68	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management	<ul style="list-style-type: none"> Noted & Complied

Sr. No.	EC Conditions	Compliance Status
	Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.	
69	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	<ul style="list-style-type: none"> • Complied • All pollution control systems installed in our plant area directly connected with process safety inter locks from DCS. For ensure, all the safe requirements meet before any start up. We are also following pre-start up safety review before restart of the system.
70	All the recommendations mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd. Ahmedabad and commitments made during presentation before SEAC, proposed in the EIA report shall be strictly adhered to in letter and spirit.	<ul style="list-style-type: none"> • Complied • As per Chapter 6 of the EIA, we have identified the risks and take mitigation measures accordingly.
71	All the recommendations of CREP guidelines as may be applicable from time to time shall be followed vigorously.	<ul style="list-style-type: none"> • Complied • As per Charter Corporate Responsibility for Environment Protection (CREP) published by the CPCB, Tree plantation & Tree guard provided to protect Trees. • Energy Program: Low smoke wood stoves & Solar Street Light etc.
72	A separate environment management cell with qualified staff shall be set up for information of the stipulated environmental safeguards.	<ul style="list-style-type: none"> • Complied • A separate environment management cell equipped with full-fledged laboratory facilities and qualified personnel set up to carry out the Environment Management and Monitoring functions and a separate budget is allotted for this purpose.
73	The project authorities must strictly adhere to the stipulations made by the Gujarat pollution control board (GPCB) state Government and any statutory authority.	<ul style="list-style-type: none"> • Noted
74	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	<ul style="list-style-type: none"> • Noted • All future expansion or modifications in the plant will be carried out with prior approval of the MOEF / SEIAA, as the case may be. • In case of deviations or alterations in the project proposal from those submitted to MOEF / SEIAA / SEAC for clearance, a fresh reference will be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required.
75	The above conditions will be enforced, inter-alia 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.	<ul style="list-style-type: none"> • Noted
76	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	<ul style="list-style-type: none"> • Noted & Complied
77	Unit shall comply provisions of MoEFCC's O.M. No.22-6512017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein.	<ul style="list-style-type: none"> • Noted & Complied

Sr. No	EC Conditions	Compliance Status
78	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	<ul style="list-style-type: none"> Noted & Complied
79	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.	<ul style="list-style-type: none"> Noted & Complied
80	<p>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.</p> <ul style="list-style-type: none"> Complied We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. <p>Name of Paper: Times of India Date of Issue: 09/02/2019 In: English language</p> <p>Name of Paper: Divya Bhaskar Date of Issue: 09/02/2019 In: Gujarati language</p> <div data-bbox="284 1070 801 1563"> <p>જાહેર જિવેદન પર્યાવરણ મંજૂરી</p> <p>આ સમગ્ર જાણવામાં આવે છે કે "સ્ટેટ લેવેલ એન્વિરોનમેન્ટલ ઇમ્પેક્ટ ઓથોરિટી" પર્યાવરણ ભવન, સેક્ટર ૧૦-અ, ગાંધીનગર-૩૮૨૦૧૦, ગુજરાત દ્વારા તેઓના પત્ર ક્રમાંક SEIAA/GUJ/EC/1 (d)/287/2019 તારીખ ૦૪/૦૨/૨૦૧૯ ના રોજ મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ (કેમિકલ ડિવીઝન) ના પ્લોટ નં. ૧, જી.આઈ.ડી.સી., ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાયત, જી. ભરૂચ, ગુજરાતમાં પાવર પ્લાન્ટના વિસ્તરણ માટે નવો 45 MW કૅપ્ટીવ પાવર પ્લાન્ટ નાખવા માટેની જોજવાને S.O. ૧૫૩૩, EIA નોટિફિકેશન ૨૦૦૬, જાહેરનામા મુજબ એન્વિરોનમેન્ટલ ક્લીયરન્સ માટે અનુમતિ આપવામાં આવેલ છે. ઉપરોક્ત અનુમતિની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડની કચેરીમાં ઉપલબ્ધ છે અને સદર અનુમતિને SEIAA/SEAC/GPCB ની વેબસાઈટ પર પણ મુકવામાં આવેલ છે.</p> <p>સહી/- મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીઝ લિમિટેડ (કેમિકલ ડિવીઝન), પ્લોટ નં. ૧, જી.આઈ.ડી.સી., ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, વિલાયત, જી. ભરૂચ, ગુજરાત.</p> </div> <div data-bbox="826 1070 1407 1563"> <p>PUBLIC NOTICE ENVIRONMENTAL CLEARANCE</p> <p>It is hereby informed that the State Level Environment Impact Assessment Authority, ParyavaranBhavan, Sector 10 - A, Gandhinagar - 382 010, Gujarat vide its letter Ref. No. SEIAA/GUJ/EC/1(d)/287/2019 dated 04/02/2019 has accorded Environment Clearance to M/s. Grasim Industries Ltd. (Chemical Division) for the proposed expansion of captive Power Plant by installation of new 45 MW Captive Power Plant at Plot No. 1, GIDC Industrial Estate, Vilayat, Dist. Bharuch, Gujarat as per applicable provisions of the S.O. 1533, EIA Notification, 2006. Copies of the clearance letters are available with Gujarat Pollution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB.</p> <p>Sd/- M/s. Grasim Industries Ltd. (Chemical Division), Plot No.1, GIDC Industrial Estate, Vilayat, Dist. Bharuch, Gujarat.</p> </div>	
81	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	<ul style="list-style-type: none"> Noted & Complied
82	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	<ul style="list-style-type: none"> Noted & Complied
83	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<ul style="list-style-type: none"> Noted

Sr. No	EC Conditions	Compliance Status
84	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	• Noted
85	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	• Noted
86	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	• Noted
87	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	• Noted & Complied
88	This environmental clearance is valid for seven years from the date of issue.	• Noted
89	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 Days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	• Noted
90	Submission of any false or misleading information or data which is material to screening or seeping or appraisal or decision on the application makes this environment clearance cancelled.	• Noted

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

Sr. No	EC Conditions						Compliance Status	
1	The proposal is for environmental clearance to M/s. Grasim Chemicals Ltd. For expansion of setting up of Chlor Alkali Plant and Captive Power plant (CPP) at Plot No.-1, GIDC Industrial Estate, Vill: Vilayat Tal: Vagra & Dist: Bharuch, Gujarat. It is proposed in existing unit for manufacturing following products, which falls in the category - 1(d) & 4(d) of the schedule of the EIA Notification-2006.						<ul style="list-style-type: none">Noted.EC copy is attached as Annexure 1.	
	<div>Sr. no</div>	<div>Name of Product</div>	<div>CA S no. / CI no.</div>	Quantity (MT/Month)				<div>End-use of product</div>
				Existin g	Propos ed	Total		
1	Caustic Soda Lye	13 10-73-2	30416.67	12166.67	42583.33	Manufacture of pulp and paper, alumina, soap and detergents, petroleum products and chemical production. Other application include water treatment, food, textile, metal processing, minning, glass making and others.		
2	Hydrogen	13 33-74-0	8516666.67 (Nm³)	3406666.67 (Nm³)	11923333.33 (Nm³)	Industrial application such as refining, treating metals and food processing. It is also used as alternate fuel in industries.		
3	Liquid Chlorine/ Sodium Hypochlorite/ Hydrochloric Acid	77 82-50-5	27375	20865.83	48240.83	It is disinfectant. It is used to treat drinking water and swimming pool water. It is also used to make hundreds of consumer products from paper to paints, and from textiles to		

Sr. No.	EC Conditions							Compliance Status
							insecticides. About 20% of chlorine produced is used to make PVC. It can be used Vinyls, Chloromethanes, CPW, Organics Chemicals	
	4	Aluminium Chloride	7746-70-0	2083.33	416.67	2500	It finds application in the chemical industry as a catalyst for Friedel Crafts reactions, both acylations and alkylations. It can be used in Agrochemicals, Pigments and Dyes, Pharma, Coating Industries.	
	5	Sodium Sulphate	7757-82-6	0	222.67	222.67	Sodium sulfate is used to dry organic liquids. As a filter in powered home laundry detergents.	
	6	Captive Power plant	---	141 MW	35 MW	176 MW	Power Generation	
	The project activity is covered in 1(d) & 4(d) and is of 'B' category. Since the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(ii) of the Environment Assessment notification-2006. The SEAC, Gujarat vide their letter dated 03/05/2021 has recommended to the SEIAA, Gujarat to grant the Environment Clearance for the above-mentioned project based on its meeting held on 01/03/2021. The proposal was considered by SEIAA, Gujarat in its meeting held on 03/05/2021 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.							
A	CONDITIONS :							
A.1	SPECIFIC CONDITION :							
2	All the issues raised in the earlier public hearing dated 21.08.2018 shall be comprehensively addressed/ complied with in a time bound manner.							<ul style="list-style-type: none">CompliedAll the issues raised in the earlier public hearing dated 21.08.2018 are comprehensively addressed/ complied with in a time bound manner.

Sr. No.	EC Conditions	Compliance Status
3	Total Sulphur content of fuel use in CPP shall not exceed 0.8% at any point of time.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the CPP.
4	Transportation route for vehicles carrying Fly Ash and Coal shall have least minimum pass near human habitation.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the CPP.
5	Unit shall comply Coal handling Guidelines published by GPCB.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the CPP.
6	Project proponent (PP) shall maintain Complete Zero Liquid Discharge [ZLD] status all the time and there shall be no drainage connection from the premises and wastewater discharge outside premises by any means for CPP all the time.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the CPP.
7	Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no. B-9016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/ emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/ CPCB on real time basis. [For Small/ Large/ Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable].	<ul style="list-style-type: none"> For existing scenario, Unit has already installed CEMS in line to CPCB directions to all SPCB vide letter no. B-9016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/ emission from respective project and an arrangement is also done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/ CPCB on real time basis. And same will be complied before commissioning of proposed project
8	PP shall pursue health check-ups of the workers on regular basis and shall provide adequate personal protective equipments.	<ul style="list-style-type: none"> We are carrying out check-ups of the workers on regular basis and providing adequate personal protective equipments & same shall be complied after commissioning of proposed project
9	Unit shall comply the emission standards mentioned in the notification by MoEF&CC vide no. S.O. 3305 (E) dated 07/12/2015 and amended time to time.	<ul style="list-style-type: none"> Unit shall comply the condition after commissioning of proposed project
10	Transportation route for vehicles carrying Fly Ash and Coal shall have least minimum pass near human habitation.	<ul style="list-style-type: none"> Transportation route for vehicles carrying Fly Ash and Coal will have least minimum pass near human habitation.
11	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	<ul style="list-style-type: none"> Unit shall comply the condition after commissioning of project
12	A long term study or radio activity and heavy metals contents on coal/ lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/ lignite and fly ash (Including bottom ash) shall be put in place.	<ul style="list-style-type: none"> Unit shall comply the condition after commissioning of project
13	A flue gas stack of 125 m height shall be provided with online monitoring system to proposed Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis.	<ul style="list-style-type: none"> Unit shall comply the condition after commissioning of project
14	High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standards prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas	<ul style="list-style-type: none"> Unit shall comply the condition after commissioning of project

Sr. No	EC Conditions	Compliance Status
	emission from the stack meets with the specified standards or boiler shall shut down totally.	
15	Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute/ organization.	<ul style="list-style-type: none"> Unit shall comply the condition after commissioning of project
16	Lime stone injection technology shall be adopted to control SO ₂ and it shall be ensured that SO ₂ levels in the ambient air do not exceed the prescribed standards.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of project
17	The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of project
18	The PP shall develop green belt within premises and nearby villages (154057.21 Sq. m i.e. 33% of the total plot area) as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of project
Safety & Health		
19	PP shall provide Occupational Health Center (OHC) as per the under the Gujarat Factories Rule 68-I.	<ul style="list-style-type: none"> OHC is equipped with fully fledged OHC & same shall be complied after commissioning of proposed project
20	PP shall obtain fire safety certificate/ Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules/ Gujarat Fire Prevention and Life Safety Measures Act, 2016.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
21	PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in manufacturing area in case of any emergency or accident.	<ul style="list-style-type: none"> Unit is carrying out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in manufacturing area in case of any emergency or accident & same shall be complied after commissioning of proposed project.
22	PP shall install adequate fire hydrant system within premises and separate storage of water for the same shall be ensured by PP.	<ul style="list-style-type: none"> We have already installed adequate fire hydrant system within premises and separate storage of water for existing scenario & same shall be complied after commissioning of proposed project.
23	PP shall take all the necessary steps for human safety within premises to ensured that not any harm is caused to any worker/ employee or labour within premises.	<ul style="list-style-type: none"> We have taken all the necessary steps for human safety within premises to ensured that not any harm is caused to any worker/ employee or labour within premises & same shall be complied after commissioning of proposed project.
24	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	<ul style="list-style-type: none"> Flame proof electrical fittings are provided in the plant premises & same shall be complied after commissioning of proposed project.
A.2 WATER :		
25	Total water requirement for the project shall not exceed 24,768 KLD. Unit shall reuse 13,488 KLD of treated industrial effluent within premises, Hence. Fresh water requirement shall not exceed 11,280 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project

Sr. No	EC Conditions	Compliance Status																																								
26	The industrial effluent generation from the project shall not exceed 8,313 KLD.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
27	8,313 KLD. Total industrial effluent shall be treated in ETP consists of primary, secondary & tertiary treatment units. Out of 8313 KLD, Treated effluent, 600 KLD shall be disposed into deep sea, 7713 KDL shall be treated in RO Plants.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
28	5566 KLD. RO reject shall be used within premises and 686 KLD, RO permeate shall be reused for gardening/ plantation.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
29	1301 KLD, RO reject shall be used in coal yard, dust/ ash suppression and road cleaning and 140 KLD, RO reject shall be treated in MEE followed by ATFD. 112 KLD, MEE condensate shall be reused within premises.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
30	Domestic wastewater generation shall not exceed 129.40 KL/day for proposed project and it shall be treated in STP. It shall not be disposed of into soak pit. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
31	During monsoon season when treated sewage may not be required for the plantation/ Gardening/ Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
32	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
33	The unit shall provide metering facility at the inlet of ETP, MEE, STP and RO and maintain records for the same.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
34	Proper logbooks of ETP, MEE, STP and RO; chemical consumption in effluent treatment; quantity & quality of treated effluent; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project																																								
A.3 AIR:																																										
35	Unit shall not exceed fuel consumption for boilers, Flaker Plant and DG set as mentioned below:																																									
	<table><tr><th>Sr. no.</th><th>Stack / Vent attached to</th><th>Type & Quantity of Fuel</th><th>Height of the Stack/ Vent (m)</th><th>Expected Emission</th><th>Air Pollution Control Measures</th></tr><tr><td colspan="6">EXISTING Flue Gas Emission</td></tr><tr><td>1</td><td>Boiler 1 & 2</td><td rowspan="2">Coal [100 MT/hr]</td><td>125</td><td>PM SO2 NO2</td><td>ESP and Low NOx Burners</td></tr><tr><td>2</td><td>Boiler 3 & 4</td><td>125</td><td>PM SO2 NO2</td><td>ESP and Low NOx Burners</td></tr><tr><td>3</td><td>Boiler -5 (175 TPH)</td><td>Coal [29.16 MT/hr]</td><td>125</td><td>PM SO2 NO2</td><td>ESP and Low NOx Burners</td></tr><tr><td>4</td><td>D.G. Sets (1875 KVA x 2)</td><td>HSD [400 lit/hr. each]</td><td>36</td><td>PM SO2 NO2</td><td rowspan="2">NA</td></tr><tr><td>5</td><td>D.G. Sets (750</td><td>HSD[200 lit/hr. each]</td><td>11</td><td>PM SO2 NO2</td></tr></table>	Sr. no.	Stack / Vent attached to	Type & Quantity of Fuel	Height of the Stack/ Vent (m)	Expected Emission	Air Pollution Control Measures	EXISTING Flue Gas Emission						1	Boiler 1 & 2	Coal [100 MT/hr]	125	PM SO2 NO2	ESP and Low NOx Burners	2	Boiler 3 & 4	125	PM SO2 NO2	ESP and Low NOx Burners	3	Boiler -5 (175 TPH)	Coal [29.16 MT/hr]	125	PM SO2 NO2	ESP and Low NOx Burners	4	D.G. Sets (1875 KVA x 2)	HSD [400 lit/hr. each]	36	PM SO2 NO2	NA	5	D.G. Sets (750	HSD[200 lit/hr. each]	11	PM SO2 NO2	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
Sr. no.	Stack / Vent attached to	Type & Quantity of Fuel	Height of the Stack/ Vent (m)	Expected Emission	Air Pollution Control Measures																																					
EXISTING Flue Gas Emission																																										
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5	D.G. Sets (750	HSD[200 lit/hr. each]	11	PM SO2 NO2																																						

Sr. No	EC Conditions						Compliance Status
		KVA x 3)					
	6	D.G. Sets (1875 KVA x 2)	HSD[400 lit/hr. each]	31	PM SO2 NO2		
	PROPOSED Flue Gas Emission						
	1	Boiler -6 (250 TPH)	Coal [42 MT/hr]	125	PM SO2 NO2	ESP and Low NOx Burners	
	2	D.G. Sets (1875 KVA x 1)	HSD (400 lit/hr. each]	36	PM SO2 NO2	NA	
	3	Flaker Plant	Hydrogen [447.1 kg/hr.]	40	PM SO2 NO2	NA	
36	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:						<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
37	Unit shall provide adequate APCM with process gas generation sources as mentioned below:						<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
EXISTING Process Gas Emission							
1	Sodium Hypo Stack 1 (Caustic Plant)		--	35	Cl ₂	Alkali Scrubber	
2	HCl stack 1 (Caustic Plant)		--	35	HCl	Water scrubber having bubble cap tray absorption system.	
3	HCl stack 2 (Caustic Plant)		--	35			
4	Poly Aluminium Chloride Plant			35	HCl Cl ₂	Water scrubber system	
5	Chlorinated Paraffin plant		--	35	HCl Cl ₂	Alkali scrubbing system	
6	Aluminium Chloride		--	35	HCl Cl ₂	Alkali scrubbing system	
7	Stable Bleaching Powder		--	35	HCl Cl ₂	Alkali scrubbing system	
8	Sodium Hypo stack 2 (Caustic Plant)		--	35	Cl ₂	Alkali Scrubber	
9	HCl stack 3 (Caustic Plant)		--	35	HCl	Water scrubber having bubble cap tray absorption system.	
10	HCl stack 4 (Caustic Plant)		--	35			
11	Poly Aluminium Chloride Liquid		--	35	HCl Cl ₂	Water scrubber system	
12	Poly Aluminium Chloride Powder		--	35		3 stage water scrubber system	
13	Chlorinated Paraffin plant		--	35	HCl Cl ₂	Alkali scrubbing system	
14	Aluminium Chloride		--	35	HCl Cl ₂	Alkali scrubbing system	
15	Stable Bleaching Powder		--	35	HCl Cl ₂	Alkali scrubbing system	
Proposed							

Sr. No	EC Conditions						Compliance Status			
.	Not any									
38	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.						<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project			
39	Internal roads shall be either concreted or asphalted or reduce the fugitive emission during vehicular movement.									
40	Air borne dust shall be controlled with water sprinklers locations in the plant.									
41	A green belt shall be developed all around the plant boundary and also along to mitigate fugitive & transport dust emission.									
42	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.						<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project			
43	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, Cl2 and VOCs shall be carried out in the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.						<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project			
A.4 SOLID/ HAZARDOUS WASTE:										
44	All the hazardous waste management shall be taken care as mentioned below:							<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project		
	Sr. no.	Type/ Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Product Rules.	Quantity (MT/Annum)					Management of HW
					Existing	Proposed	Total			
	1	ETP Sludge	ETP	35.3	1524.50 MT	2557 MT	4081.5 MT			Will be collected stored, transported & Disposed at authorized TSDF site.
	2	Spent Resin	From Chlor Alkali Plant	35.2	0.42 MT	0.33 MT	0.75 MT			Will be collected stored, transported & Disposed at designated CHWIF site.
	3	Spent Carbon	From Chlor Alkali Plant	36.2	0.33 MT	0.07 MT	0.40 MT	Will be collected stored, transported & Disposed at designated CHWIF site.		

Sr. No.	EC Conditions								Compliance Status
	4	Used Oil	From lubrication or D.G. set	5.1	128 KL	100 KL	228 KL	Will be collected, stored and sold to authorized recycler.	
	5	Discarded Containers	From Manufacturing	33.1	1680 Nos.	318 Nos.	1998 Nos.	Will be collected decontamination, stored and reused/sold to authorized recycler.	
	6	Discarded bags/ Liners	From Manufacturing	33.1	41.8 MT	54.2 MT	96 MT	Collection, storage, transportation and will be sold to Authorized actual users having Rule-9 permission	
	7	Dilute Sulphuric Acid (75%-88%)	From Chlor Alkali Plant	B-15	0 MT	11.500 MT	11.500 MT		
	Non-hazardous waste								
	8	Brine/ Processes Sludge	--		6066 MT	2934 MT	9000 MT	Will be collected stored, transported & disposed off to secured landfill site.	
	9	Fly Ash	--		111600 MT	27702 MT	139302 MT	Sold fly ash to M/s. Anmol & Co., J.K Lakshmi Cement, Ambuja Cement	
45	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes(Management and Transboundary Movement) Rules 2016.								Noted.
46	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable & fillable wastes before sending to CHWIF & TSDF sites respectively.								Noted.
47	The company shall strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection/ treatment/ storage / disposal of hazardous wastes.								Noted.
48	Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.								<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project

Sr. No	EC Conditions	Compliance Status
49	Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No ash pond shall be constructed. Handling of the fly ash shall be through a closed pneumatic system. Ash shall be handled only in dry state.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
50	The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
A.5	OTHER:	
51	The project proponent shall allocate the separate fund of Rs. 2.18 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
52	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd. Ahmedabad and submitted by project proponent commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
53	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
54	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted
55	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Noted
56	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environmental Clearance from the concerned authority.	<ul style="list-style-type: none"> No further expansion or modifications in the plant likely to cause environmental impacts will be carried out without obtaining prior Environmental Clearance from the concerned authority.
57	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted
58	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
B.	GENERAL CONDITIONS :	
B.1	CONSTRUCTION PHASE	
59	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
60	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project

Sr. No	EC Conditions	Compliance Status
61	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
62	First Aid Box shall be made readily available in adequate quantity at all the times.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
63	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
64	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
65	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
66	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
67	All topsoil excavated during construction activity shall be used in horticultural/ landscape development within the project site.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
68	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
69	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
70	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
71	"Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
72	"No uncovered vehicles carrying construction material and waste shall be permitted."	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
73	"No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered, Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
74	Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
75	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
76	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
77	Grinding and cutting of building materials in open area shall be prohibited.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
78	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project

Sr. No.	EC Conditions	Compliance Status
79	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
B.2	OPERATION PHASE:	
B.2 .1	WATER:	
80	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
81	All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
B.2 .2	AIR:	
82	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
83	Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the FPA Rules for air and noise emission standards.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
84	Stack/ Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/ Process gas emission.	Noted
85	Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/ CPCB/ MoEF&CC. At no time, emission level should go beyond the stipulated standards.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
86	All the reactors/ vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
B.2 .3	HAZARDOUS/ SOLID WASTE:	
87	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection/ treatment/ storage/ disposal of hazardous wastes.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
88	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.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
89	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
90	Trucks/ Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
91	The design of the Trucks/ tankers shall be such that there is no spillage during transportation	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
92	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/ CHWIF.	Noted.
93	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
B.2 .4	SAFETY:	

Sr. No.	EC Conditions	Compliance Status
94	The occupier/ manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963	Noted
95	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
96	Main entry and exit shall be separate and clearly marked in the facility .	Noted.
97	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	Noted.
98	Storage of flammable chemicals shall be sufficiently away from the production area.	Noted.
99	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	Noted.
100	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	Noted.
101	All the toxic/ hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
102	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Noted
103	Only flame proof electrical fittings shall be provided in the plant premises.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
104	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks/ containers instead of one single large capacity tank/ containers.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
105	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/ dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
106	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
107	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Noted
108	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	Noted
109	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	Noted
110	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	Noted
111	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	Noted
112	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Noted
113	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<ul style="list-style-type: none"> Unit shall comply with the condition after commissioning of proposed project
114	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	<ul style="list-style-type: none"> Unit shall comply with the condition before commissioning of proposed project
B.2.5	NOISE:	

Sr. No	EC Conditions	Compliance Status
115	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
B.2 .6	CLEANER PRODUCTION AND WASTE MINIMISATION:	
116	The unit shall undertake the Cleaner Production Assessment study through a reputed institute/ organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
117	The company shall undertake various waste minimization measures such as :	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
118	Metering and control of quantities of active ingredients to minimize waste.	
119	Reuse of by-products from the process as raw materials or as raw materials substitutes.	
120	Use of automated and close filling to minimize spillages.	
121	Use of close feed system into batch reactors.	
122	Venting equipment through vapour recovery system.	
123	Use of high pressure hoses for cleaning to reduce wastewater generation.	
124	Recycling of washes to subsequent batches.	
125	Recycling of steam condensate.	
126	Sweeping/ mopping of floor instead of floor washing to avoid effluent generation.	
127	Regular preventive maintenance for avoiding leakage, spillage etc.	
B.2 .7	GREEN BELT AND OTHER PLANTATION:	
128	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC/ GPCB and submit an action plan of plantation for next three years to the GPCB.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
129	Drip irrigation/ low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
B.3	OTHER CONDITION:	
130	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MOEF&CC vide no. F. No. 22-34/2018-IA,III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).	Noted
131	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.II dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
132	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	<ul style="list-style-type: none">Unit shall comply with the condition after commissioning of proposed project
133	The unit shall join and participate financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the Industrial Association or GIDC	Noted

Sr. No	EC Conditions	Compliance Status
	or GPCB or any such authority created for this purpose by the Govt. / GIDC.	
134	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	Noted
135	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	Noted
136	All the commitments/ undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	Noted
137	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	Noted
138	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted
139	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Noted
140	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Noted
141	Pucca flooring/ impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Noted
142	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	Noted
143	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Noted
144	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted
145	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	Noted
146	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Noted
147	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted
148	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.	

Sr. No	EC Conditions	Compliance Status
	<ul style="list-style-type: none"> Complied We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. <p>Name of Paper: Times of India Date of Issue: 15/06/2021 In: English language</p> <p>Name of Paper: Divya Bhaskar Date of Issue: 15/06/2021 In: Gujarati language</p> <div data-bbox="284 546 815 949"> </div> <div data-bbox="831 546 1369 949"> <p>PUBLIC NOTICE</p> <p>This is to inform public at large that the State Level Environment Impact Assessment Authority, Paryavaran Bhavan, Sector 10-A, Gandhinagar-382010, Gujarat vide its letter no. SEIAA/GUJ/EC/1(d)&4(d)/764/2021 dated 10-06-2021 has accorded Environmental Clearance to M/s. Grasim Chemicals Ltd. for expansion of setting up Chlor Alkali Plant and Captive Power Plant at Plot No. 1, GIDC Industrial Estate, Village: Vilayat, Taluka: Vagra, District: Bharuch, Gujarat as per applicable provisions of the S.O. 1533, EIA Notification 2006 and its subsequent amendments. Copy of the clearance letter is available with the Gujarat Pollution Control Board and may also be seen on the website of SEIAA/SEAC/GPCB.</p> <p>Sd/- M/s. Grasim Chemicals Ltd., Plot No. 1, GIDC Industrial Estate, Village: Vilayat, Taluka: Vagra, District: Bharuch, Gujarat.</p> </div>	
149	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	<ul style="list-style-type: none"> We are submitting half-yearly compliance report regularly
150	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the captive power plant project.
151	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the project.
152	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
153	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the project.
154	The project authorities shall inform the GPCB, Regional Office of MOEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<ul style="list-style-type: none"> We shall comply with the condition after commissioning of the project.
155	This environmental clearance is valid for seven years from the date of issue.	Noted
156	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
157	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted



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

Date:
Time Limit

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

Dear Sir,

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

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

Product :

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

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

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

A. SPECIFIC CONDITIONS:

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

A.1 WATER:

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

A.2 AIR:

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

- vapour & three tower systems with alkali scrubber for absorption of unreacted chlorine to produce sodium hypochlorite.
- c. Bleaching Powder Plant, Aluminium Chloride Plant and Chlorinated Paraffin Plant – Alkali scrubbers of absorption of Cl₂ emission.
 - d. Sulphuric Acid Plant – DCDA system in manufacturing and scrubbing system.
 - e. Chlorosulphonic Acid Plant – Acid scrubber for absorption of SO₃ emission.
16. The APCE shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets. Adequate stack height as per prevailing norms shall be provided for the process emissions.
 17. Natural gas shall be used as a raw material in the CS₂ plant. Thus, there shall be no CS₂ & H₂S emission from the CS₂ Plant.
 18. Imported Coal to the tune of 1700 TPD shall be used as a fuel in the proposed 60 MW Power Plant. Stack of 175 meter height shall be provided for the proposed power plant.
 19. High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the power plant. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified norms or boiler shall shut down totally.
 20. There shall be one extra field in the ESP to ensure that even though one field goes out of order, the prescribed standard of PM is met with. In case of failure of two or more fields of the ESP, the unit shall immediately shut down the power plant.
 21. Online monitoring system shall be installed to monitor at least 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 garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
41. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals. Close handling system for chemicals shall be provided.
42. Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check up of the workers and keeping its record etc.
43. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
44. First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
45. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
46. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
47. Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
48. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.

A.5 NOISE:

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

- ✓ Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.
 - ✓ Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.
 - ✓ Employees shall be provided with ear protection measures like earplugs or earmuffs.
 - ✓ Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.
 - ✓ Construction equipment generating minimum noise and vibration shall be chosen.
 - ✓ Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.
 - ✓ Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.
 - ✓ Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
 - ✓ Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.
 - ✓ Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.
50. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. on all sources of noise generation. The ambient noise levels shall 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 , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010.
6. Select File.

(R.G.SHAH)
Member Secretary



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

Date:

Amendment to Environment Clearance Order No:-

(Under the provision of Environmental Impact Assessment (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

(Protection) Rules, 1986.

With regards,

Yours sincerely,

(R.G.SHAH)
Member Secretary

Issued to:

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

Copy to:-

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

(R.G.SHAH)
Member Secretary



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

Date:

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

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

(Protection) Rules, 1986.

With regards,

Yours sincerely,

(R.G.SHAH)
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:-

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3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
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5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010.
6. Select File.

(R.G.SHAH)
Member Secretary



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

/2014

Date:

Time Limit

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

Dear Sir,

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

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

Sr No	Name of Product	Quantity (MT/Month)	
		Product	By-Product
Chloromethanes			
1	Methyl Chloride	Produced as 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 ALCOHOLMANUFACTURING 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	199	
11	Fractionated Fatty Alcohol - Light	13	

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

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

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

A.1 CONDITIONS WITH WHICH ENVIRONMENT CLEARANCE IS GRANTED :

A. 1.1 WATER:

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

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

A.1.2 AIR :

12. Hydrogen gas shall be used as a fuel in Volatile Reduction Chamber (VRC) whereas HSD shall be used as a fuel in the D.G. Set of 750 KVA proposed for new plants.
13. Process emission shall be controlled with the air pollution control equipments (APCE) as mentioned below.
 - a. Hydro Chlorinator of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
 - b. Crude CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
 - c. Heavies CMS Distillation Column of Chloromethanes Plant - Condenser and Guard Condenser with cooling water circulation for control of VOC.
 - d. Volatile Reduction Chamber (VRC) of Chloromethanes Plant – Water and Caustic Scrubber for control of NO_x, 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 Arrester for control of VOC.
 - g. Product Alcohol Let Down Drum S1301 of Fatty Alcohol Plant – Water Seal and Flame Arrester for control of VOC.
14. In Chloromethanes Plant, all vents after guard condenser shall be directed to Volatile Reduction Chamber (VRC) Unit, where gases shall be incinerated. Water Scrubber followed by Caustic Scrubber shall 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 & NO_x 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, 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.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 garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
35. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals. Close handling system for chemicals shall be provided.
36. Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical check up of the workers and keeping its record etc.
37. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
38. First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
39. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
40. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
41. Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
42. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.

A.1.5 NOISE:

43. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall 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 e.

A.1.7 GREEN BELT AND OTHER PLANTATION:

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

B.OTHER CONDITIONS:

- 49. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
- 50. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.
- 51. A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.
- 52. The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.
- 53. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
- 54. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
- 55. The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards recommended in the EIA / EMP report as well as other proposals made by them.
- 56. The company shall undertake socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.
- 57. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
- 58. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
- 59. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- 60. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
- 61. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
- 62. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
- 63. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- 64. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
- 65. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
- 66. This environmental clearance is valid for five years from the date of issue.
- 67. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of

With regards,
Yours sincerely,

(N.K. PATEL)
Member Secretary

Issued to:

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

Copy to:-

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

(N.K. PATEL)
Member Secretary



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. Time Limit

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

Dear Sir,

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

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

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

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

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

A. CONDITIONS :

A. 1 SPECIFIC CONDITION :

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

A. 2 WATER :

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

MEMBER SECRETARY

State Level Environment

Impact Assessment Authority

(SEIAA) Gujarat

Gujarat Pollution Control Board,

"Paryavaran Bhawan"

Sector-10-A, Gandhinagar-10

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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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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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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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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.

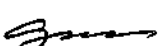
With regards,
Yours sincerely,


(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
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No. SEIAA/GUJ/EC/1(d)/ 287/2019

Date: 4 FEB 2019

By R P A D

Time Limit

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

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

Dear Sir,

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

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

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

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

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

A. CONDITIONS :

A. 1 SPECIFIC CONDITION :

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

A. 2 WATER :

8. The fresh water requirement for the proposed expansion shall not exceed 14883 KL/day. Unit shall reuse 11689 KLD [5870 KLD steam condensate from boiler for Boiler make-up, 4518 KLD permeate from RO plant for cooling tower make-up, washing and DM plant, 1301 KLD reject from RO plant for dust suppression to coal handling area (828 KLD), Sprinkling on fly ash (428 KLD) & Road cleaning(45 KLD)] within premises. Hence, fresh water requirement shall not exceed 4495 KLD and it shall be met through GIDC water supply system. Permission from the Concern authority for additional water requirement shall be obtained.

Metering of water shall be done and its records shall be maintained. No ground water shall be tapped in any case for meeting the project requirements.

10. Unit shall reuse 5870 KLD of Boiler condensate for Boiler feed water.
11. The industrial effluent generation after proposed expansion in power plant shall not exceed 6505 KL/day.
12. Entire quantity of waste water shall be subjected to Primary ETP (Cap. 500 KLD X 2) followed by RO plant.
13. RO permeate (5204 KLD) shall be reused for cooling tower make-up (4000 KLD), washing (75 KLD), DM plant (443 KLD) and gardening plantation (686 KLD) within premises.

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

A. 3 AIR:

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

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

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

prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.

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

40. Regular monitoring of ground level concentration of PM_{2.5}, PM₁₀, NO_x, SO₂ and Hg shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

A. 4 SOLID / HAZARDOUS WASTE:

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

A. 5 SAFETY:

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

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

A. 6 NOISE:

62. To minimize the noise pollution the following noise control measures shall be implemented:
- ✓ Selection of any new plant equipment shall be made with specification of low noise levels.
 - ✓ Manufacturers / suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national / international regulatory norms with respect to noise generation for individual units
 - ✓ Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.
 - ✓ Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.
 - ✓ Employees shall be provided with ear protection measures like earplugs or earmuffs.
 - ✓ Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.
 - ✓ Construction equipment generating minimum noise and vibration shall be chosen.
 - ✓ Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.
 - ✓ Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.
 - ✓ Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
 - ✓ Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.
 - ✓ Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.
63. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration dampers etc. on all sources of noise generation. The ambient noise levels shall 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. 7 GREEN BELT AND OTHER PLANTATION:

64. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.
65. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

B. OTHER CONDITIONS:

66. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.
67. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.
68. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
69. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd., Ahmedabad and commitments made during presentation before SEAC, proposed in the EIA report shall be strictly adhered to in letter and spirit.
70. All the recommendations of CREP guidelines as may be applicable from time to time shall be followed vigorously.
71. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
72. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
73. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
74. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
75. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
76. Unit shall comply provisions of MoEF&CC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein.

77. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
78. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
79. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
80. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
81. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
82. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
83. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
84. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
85. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
86. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
87. This environmental clearance is valid for seven years from the date of issue.
88. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
89. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,
Yours sincerely,


(S. M. SAIYAD)
Member Secretary

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



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



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/1(d)&4(d)/764/2021

Date: 10 JUN 2021

By R P A D

Time Limit

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

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

Dear Sir,

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

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

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

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

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

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

A. CONDITIONS :

A.1 SPECIFIC CONDITION :

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

standards or boiler shall shut down totally.

14. Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.
15. Lime stone injection technology shall be adopted to control SO₂ and it shall be ensured that SO₂ levels in the ambient air do not exceed the prescribed standards.
16. The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company
17. The PP shall develop green belt within premises and nearby villages (154057.21 Sq. m i.e. 33 % of the total plot area) as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.

18. Safety & Health

- a) PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.
- b) PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
- c) PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.
- d) PP shall install adequate fire hydrant system within premises and separate storage of water for the same shall be ensured by PP.
- e) PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labour within premises.
- f) Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.

A-2- WATER:

19. Total water requirement for the project shall not exceed 24,768 KLD. Unit shall reuse 13,488 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 11,280 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.
20. The industrial effluent generation from the project shall not exceed 8,313 KLD.
21. 8,313 KLD, total industrial effluent shall be treated in ETP consists of primary, secondary & tertiary treatment units. Out of 8313 KLD, treated effluent, 600 KLD shall be disposed into deep sea, 7713 KLD shall be treated in RO Plants.
22. 5566 KLD, RO permeate shall be reused within premises and 686 KLD, RO permeate shall be reused for gardening/plantation.
23. 1301 KLD, RO reject shall be used in coal yard, dust/ ash suppression and road cleaning and 140 KLD, RO reject shall be treated in MEE followed by ATFD. 112 KLD, MEE condensate shall be reused within premises.
24. Domestic wastewater generation shall not exceed 129.40 KL/day for proposed project and it shall be treated in STP. It shall not be disposed of into soak pit. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.
25. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
26. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
27. The unit shall provide metering facility at the inlet of ETP, MEE, STP and RO and maintain records for the same.
28. Proper logbooks of ETP, MEE, STP and RO; chemical consumption in effluent treatment; quantity & quality of treated effluent; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

A-3- AIR:

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

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

4.	D.G. Sets (1875 KVA x 2)	HSD [400 lit/hr. each]	36	PM SO ₂ NO ₂	NA
5.	D.G. Sets (750 KVA x 3)	HSD [200 lit/hr. each]	11	PM SO ₂ NO ₂	
6.	D.G. Sets (1875 KVA x 2)	HSD [400 lit/hr. each]	31	PM SO ₂ NO ₂	
PROPOSED Flue Gas Emission					
1.	Boiler -6 (250 TPH)	Coal [42 MT/hr]	125	PM SO ₂ NO ₂	ESP and Low NOx Burners
2.	D.G. Sets (1875 KVA x 1)	HSD [400 lit/hr. each]	36	PM SO ₂ NO ₂	NA
3.	Flaker Plant	Hydrogen [447.1 kg/hr.]	40	PM SO ₂ NO ₂	NA

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

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

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

32. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.

> Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during

vehicular movement.

- > Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
- > A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.

33. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.

34. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, HCl, Cl2 and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

A.4 SOLID / HAZARDOUS WASTE:

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

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



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

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

A.5 OTHER:

42. The project proponent shall allocate the separate fund of Rs. 2.18 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.
43. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Anand Environmental Consultants Pvt. Ltd. Ahmedabad and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.
44. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.
45. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
46. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
47. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
48. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
49. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.

B. GENERAL CONDITIONS:

B.1 CONSTRUCTION PHASE:

50. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
51. Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.

52. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
53. First Aid Box shall be made readily available in adequate quantity at all the times.
54. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
55. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
56. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.
57. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
58. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
59. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.
60. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.
61. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.
62. "Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided Individual building within the project site shall also be provided with barricades.
63. "No uncovered vehicles carrying construction material and waste shall be permitted."
64. "No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."
65. Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).
66. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
67. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
68. Grinding and cutting of building materials in open area shall be prohibited.
69. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
70. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

B.2 OPERATION PHASE:

B.2.1 WATER:

- The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
- All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.

B.2.2 AIR:

73. In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
74. Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
75. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
76. Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
77. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

B.2.3 HAZARDOUS/SOLID WASTE:

78. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
79. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca

bottom and leachate collection facility, before its disposal.

80. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
81. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
82. The design of the Trucks/tankers shall be such that there is no spillage during transportation
83. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
84. Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

B.2.4 SAFETY:

85. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
86. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
87. Main entry and exit shall be separate and clearly marked in the facility.
88. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
89. Storage of flammable chemicals shall be sufficiently away from the production area.
90. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
91. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
92. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
93. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
94. Only flame proof electrical fittings shall be provided in the plant premises.
95. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
96. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
97. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
98. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
99. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
100. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
101. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
102. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
103. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
104. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
105. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

B.2.5 NOISE:

106. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

107. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
108. The company shall undertake various waste minimization measures such as :
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw materials substitutes.
 - c. Use of automated and close filling to minimize spillages.

- d. Use of close feed system into batch reactors.
- e. Venting equipment through vapour recovery system.
- f. Use of high pressure hoses for cleaning to reduce wastewater generation.
- g. Recycling of washes to subsequent batches.
- h. Recycling of steam condensate.
- i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
- j. Regular preventive maintenance for avoiding leakage, spillage etc.

B.2.7 GREEN BELT AND OTHER PLANTATION:

109. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.
110. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.


B.3 OTHER CONDITION:

111. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).
112. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
113. Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.
114. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.
115. Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.
116. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
117. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.
118. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.
119. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
120. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
121. During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
122. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
123. Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.
124. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
125. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
126. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
127. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
128. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.



129. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
130. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
131. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
132. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
133. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
134. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
135. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
136. This environmental clearance is valid for seven years from the date of issue.
137. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
138. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,
Yours sincerely,


(S. J. PANDIT)
Member Secretary

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





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

सं/No : **G/WC/GJ/06/1803(G34271)**

दि/Dated : **27/07/2022**

सेवा में/To,

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

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

Sir(s),

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

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

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

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

भवदीय/Yours faithfully,

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

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

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



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

आठवीं मंजिल, यश कमल बिल्डिंग, सयाजीगंज

वडोदरा- 390020

8th Floor, Yash Kamal Building, Sayajigunj,

Vadodara - 390020

E-mail : dyccebaroda@explosives.gov.in

Phone/Fax No : 0265 - 2225159

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

दिनांक /Dated : 05/10/2021

सेवा में /To,

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

05 OCT 2021

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

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

महोदय /Sir
(s),

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

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

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

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

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुमति क्षमता /Quantity licenced in KL
वर्ग A प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	1570.00 KL
वर्ग A प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग B प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग B प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग C प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग C प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	1570.00 KL

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

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

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

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

भवदीय /Yours faithfully,

((संजय कुमार))
(Sanjay Kumar)

विस्फोटक नियंत्रक

Controller of Explosives

कुल संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives

वडोदरा/Vadodara

Copy forwarded to :-

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

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

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



अनुज्ञप्ति सं. (Licence No.): P/WB/GJ/15/5600(P451445)

फीस/रुपये (Fee Rs.) 50000/- per year

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

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

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

पेट्रोलियम का विवरण /Description of Petroleum

अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity
licenced in KL

वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	1570.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL

कुल क्षमता /Total Capacity

1570.00 KL

October 5, 2021

For Jt. Chief Controller of Explosives
WB, Vadodara

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

अनुज्ञप्त परिसरों का विवरण और अवस्थान

DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

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

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

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

P451445

आरेखण अनुमोदित / Plan Approved

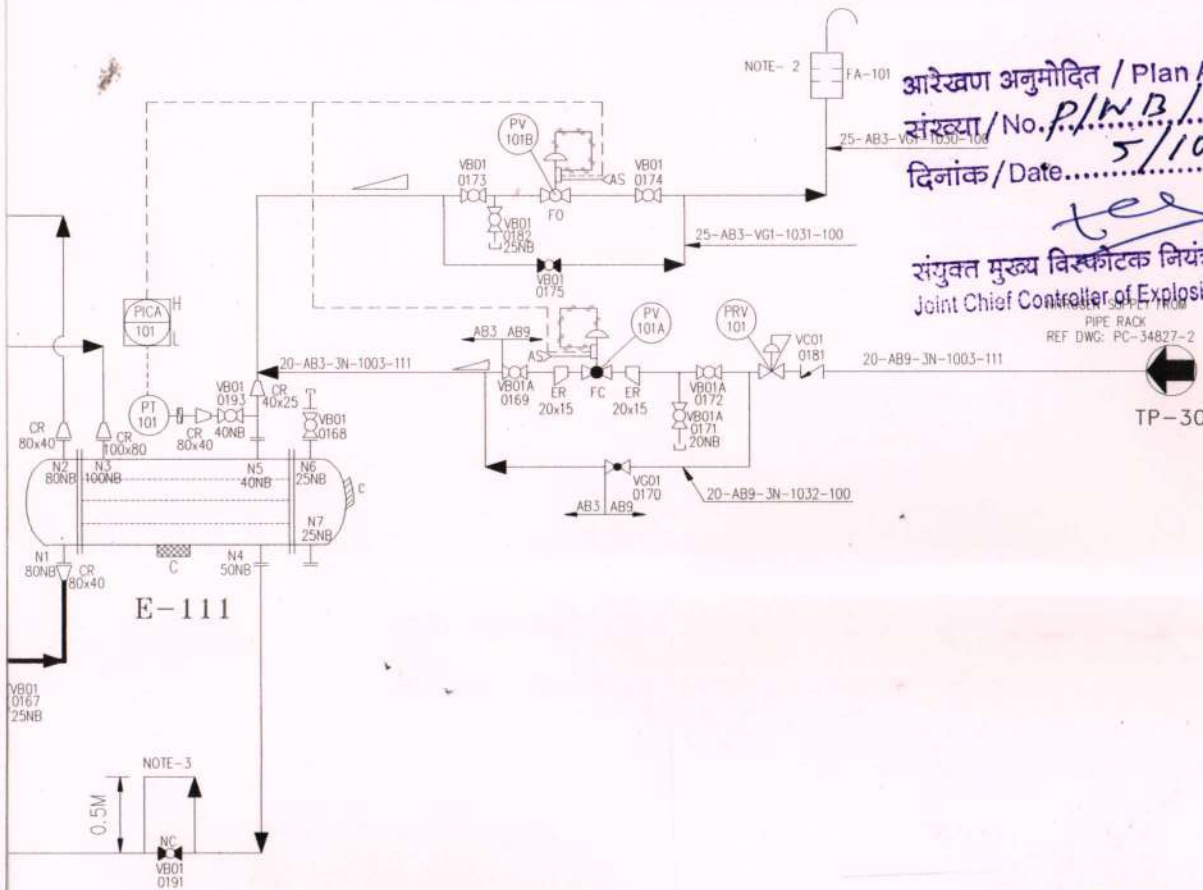
संख्या/No. P/WB/43/15/5600

दिनांक/Date 5/10/2021

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

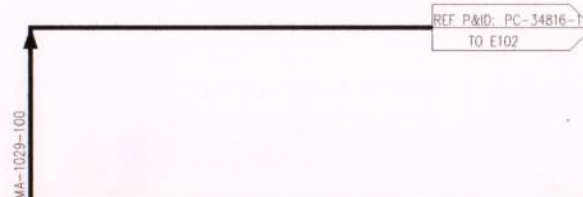
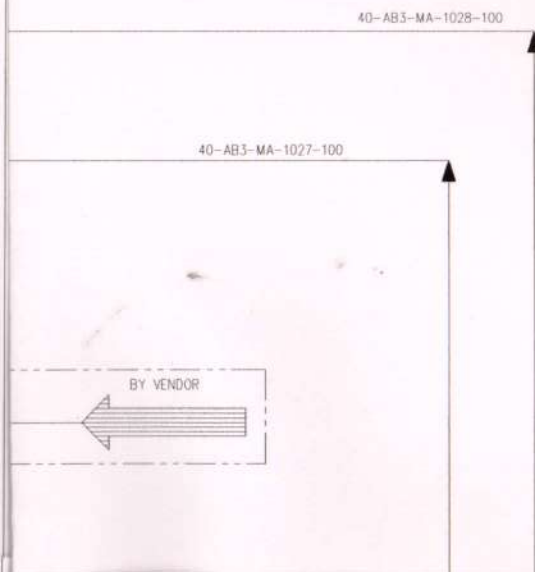
PIPE RACK
REF DWG: PC-34827-2

TP-30



For Grasim Industries Ltd.
(Chemical Division)

Vivek Bhide
VIVEK BHIDE
President & Unit Head
Authorized Signatory



Protech Consultants Pvt. Ltd.,

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

CLIENT : GRASIM INDUSTRIES LIMITED, VILAYAT, BHARUCH (GUJRAT)

PROJECT : HYDROCHLORINATION

TITLE :

P&ID FOR
METHANOL STORAGE & HANDLING

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

SCALE : NTS JOB NO.: 517

DRAWING No. REV.NO.

PC-34815-1

2

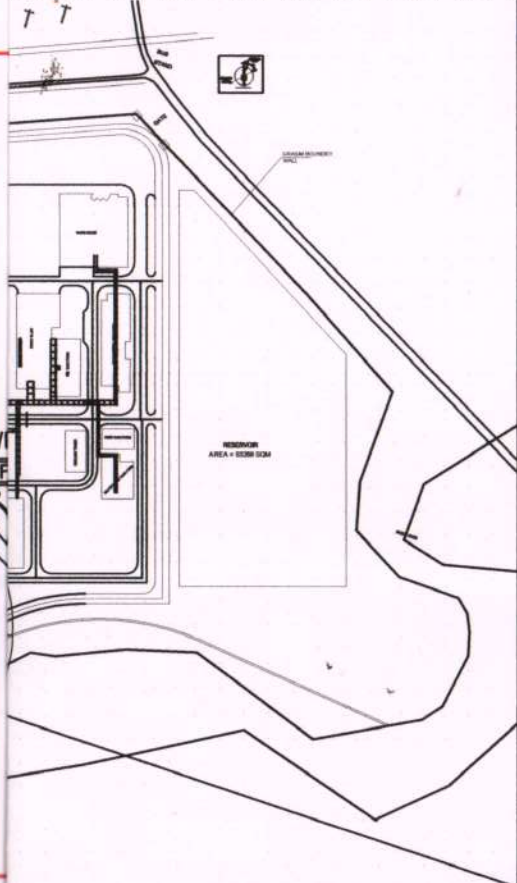
Z:\Drawings\GRASIM-HYDRO CHLORINATION\1. PROCESS\2.P&ID\PC-34815-1 R2 (P&ID FOR METHANOL STORAGE & HANDLING).dwg

VED FOR CONSTRUCTION

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

AT SIZE: 841mm x 594mm

E 2050.00
E 2075.00
E 2100.00
E 2125.00
E 2150.00
E 2175.00
E 2200.00
E 2225.00
E 2250.00
E 2275.00
E 2300.00
E 2325.00
E 2350.00
E 2375.00
E 2400.00
E 2425.00
E 2450.00
E 2475.00
E 2500.00
E 2525.00
E 2550.00



RASIM BOUNDARY WALL

REFER DWG: PC-35158-1

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

000m = RL EL+12.500

1.000m = RL EL+11.500

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

SIM INDUSTRIES LIMITED.

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

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

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

SCALE : 1:150	JOB NO.: 517
DRAWING No.	REV.NO.
PC-35157-1	5

PROCESS ELE. INS.

P 451445

आरेखण अनुमोदित / Plan Approved
संख्या/No. P/WB/45/15/5600
दिनांक/Date..... 5/10/2021

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

GRASIM INDUSTRIES LTD.

CHEMICAL DIVISION

Wazir
AUTHORISED SIGNATORY

P 451445

आरेखण अनुमोदित / Plan Approved

संख्या/No. P/W 13/43/15/5600

दिनांक/Date..... 5-10-20 ~~KEY~~ PLAN:

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

NOTES:-

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

FIRE LEGEND:-

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



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

DRAWING TITLE :-

EXTERNAL FIRE HYDRANT SYSTEM LAYOUT

DRAWN :- JENKATESH	CHECKED :- ALAKARANY	APPROVED :- <i>K. S. M.</i>
SIGN :-	SIGN :-	SIGN :-
SCALE :- 1:500		
SHOP DWG NO. CPS-GFA-FPS-001	Rev. 05	
SHEET NO. 01	CONT. ON ENO	Size. A1

**COMPREHENSIVE BUILDING
HYDRANT NO. 11&12**

12		13		14		15		16	
			DESIGN DATA						
NOZZ. PROJ.	R.F. PAD ODxIDxTHK.	REMARKS	DESIGN CODE		API 620 ED. 2013				
			TAG NO.		TK-101 A/B				
150	180x90x10THK.	WITH DIP PIPE	MEDIUM		METHYL ALCOHOL (METHANOL)				
	217x117x10THK.	AS SHOWN	SP.GRAVITY		0.787				
	---	AS SHOWN	PRESSURE. (mmWC)	OP.	1500			अभिखण अनुमोदित / Plan Approved संख्या / No. P/WB/43/15/5600 दिनांक / Date 5-10-2021	
	180x90x10THK.			DES.	(-)150				
	180x90x10THK.			TEST	FULL OF WATER				
	180x90x10THK.		TEMP. °C	OP.	30 / 50				
	---	WITH DIP PIPE		DES.	70				
	217x117x10THK.		CORR. ALL.mm.		3.0				
	180x90x10THK.	WITH DIP PIPE	RADIOGRAPHY		SHELL : SPOT + ALL JOINTS				
	180x90x10THK.				BOTTOM : FULL				
	180x90x10THK.	WITH B/F	JT. EFFICIENCY		SHELL : 0.85		BOTTOM : 1.0		
	---		STRESS RELEVING		NIL				
	---	AS SHOWN	VOLUME M ³		ACTUAL : 826.6		NORMAL : 763		
	180x90x10THK.		Wt. EMPTY Kg.		~ 41015				
	300	913x613x10THK.	WITH COVER AND DAVIT	Wt. OF INT. Kg.		-			
913x613x10THK.		DELETED	OP. WEIGHT Kg.		~ 689615				
			TEST WEIGHT Kg.		~ 865160				
			INSPECTION		BY CLIENT/AUTH. REP.				
			INSULATION		NIL				
			PAINTING		REFER NOTE NO:-15				
			QTY. (Nos.)		2 (TWO)				
			EXTERNAL LOAD DATA:		LOCATION : DAHEJ, GUJARAT, INDIA				
			WIND LOAD DATA:		SEISMIC DATA:				
			REFERENCE : IS:875 (PART3) : 1987		REFERENCE : IS:1893				
			BASIC WIND SPEED : 50 m/sec (10m ABOVE GROUND)		SEISMIC ZONE OF SITE : ZONE III		SEISMIC COEFFICIENT : AS PER IS:1893		
			MATERIALS						
			SHELL		IS:2062 Gr. E250 BR				
			CONE ROOF		IS:2062 Gr. E250 BR				
			BOTTOM PLATE		IS:2062 Gr. E250 BR				
			RAFTER		IS:2062 Gr. E250 A				
			NOZZLES		PIPE	SA 106 Gr. B			
					FLANGE	SA 105			
			MAN HOLE & COVER		PIPE	IS:2062 Gr. E250 BR			
					FLANGE	SA 105			
			PAD PLATE		SAME AS SHELL				
			M.U. DATA (UNITS)		IS:2062 Gr. E250 A				
			OFFICE: 173, T.T.K ROAD ALWARPET MADRAS-600 018						
			MANUFACTURER :-						
			KAYPEE KAYPEE MECHANICAL INDIA PVT. LTD. BHARUCH-392002						
			DRAWN	HBS	TITLE:- GENERAL ASSEMBLY AND DETAILS FOR METHANOL STORAGE TANK (TK-101 A/B)				
			CHECKED	ABS					
			APPROVED	ABS					
			DATE	30.08.2019	TAG.NO. : (TK-101 A/B)	INSP.BY: BY CLIENT/TPI			
			SCALE	NTS	PROJECT : HYDROCHLORINATION				
			QTY.	2 Nos.	REF.PO NO: 7220000294		DT:02/08/2019		
			REF. DATA SHEET. No.		KAYPEE JOB No.: 101				
			PC-34898-1 REV.2		VENDOR DRAWING No. KAYPEE-DE-TK-101A-B-M-101		SHEET No. 1 OF 1	REV. No. 5	



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

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

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

दिनांक/Dated : 02/09/2022

सेवा में/To,

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

विषय :/Sub : Plot No, 1, GIDC Industrial Estate, Vilayat Taluk Vagra, Bharuch, Taluka: Bharuch, District: BHARUCH, State: Gujarat, PIN: 392140 स्थित CHLORINE, गैस के 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, Bharuch, Taluka: Bharuch, District: BHARUCH, State: Gujarat, PIN: 392140 - Licence No : S/HO/GJ/03/1445 grant in form LS-1A of SMPV(U) Rules, 2016-Renewal of Licence Regarding

महोदय/Sir(s),

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

अनुज्ञप्ति संख्या : **S/HO/GJ/03/1445** का नवीकरण दिनांक 30th सितंबर 2027 तक कर इसके साथ अग्रेषित की जा रही हैं ।

Licence Number: **S/HO/GJ/03/1445** is renewed and is valid upto **30th September 2027** is forwarded herewith.

दिनांक 30/09/2027 . 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, 2027 तक **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara** में जरूर पहुंच जाने चाहिए ।

The provisions of the Rule 55 of the above said rules shall be followed for further renewal of the licence beyond 30/9/2027. The renewal application along with fees, Original licence and other documents shall reach in the Office of **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara**, latest by 30th September, 2027 to avoid late fee.

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

भवदीय/Yours faithfully,

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

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

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

07 OCT 2019

विषय/Sub : Plot No, 1& 2 Survey No 357 Paiky, GIDC Industrial Estate Taluka Vagra, VILAYAT, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 999999में सिलिण्डरों में CHLORINE गैस का भरण-एवं भण्डारण गोडाउन- गैस सिलेण्डर नियम, 2016 के अंतर्गत फार्म '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, 1& 2 Survey No 357 Paiky, GIDC Industrial Estate Taluka Vagra, VILAYAT, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, Pin : 999999 Licence No. G/HO/GJ/05/733 & G/HO/GJ/06/724(G31658) granted in Form E & F of Gas Cylinders Rules, 2016 - Renewal regarding

महोदय/Sir
(s),

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

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 स्वतः निरस्त हो जाएगी। /Please note that application for renewal of the licence should be submitted so as to reach the The Dy. Chief Controller of Explosives, Vadodara before the licence expires (i.e. on or before 30th Septemebr, 2028) as required under Rule 55(5) of Gas Cylinders Rules, 2016. Application for renewal of licence received after 30th Septemebr, 2028 but not later than 30th September, 2029 shall be considered only with late fee applicable vide Rule 55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th Septemebr, 2029 .

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

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

भवदीय /Yours faithfully,

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

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



फॉर्म ई / FORM E

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

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

अनुज्ञप्ति संख्यासं/ Licence No. : G/HO/GJ/05/733(G31658)

वार्षिक शुल्क रु/ Fee Rs. 5000/- per year

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

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

For Chief Controller of Explosives

Nagpur

कृते मुख्य विस्फोटक नियंत्रक
नागपुर

March 13, 2013

1) Amendment dated - 18/09/2018


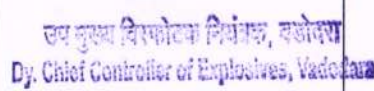
अनुज्ञप्ति परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेंडरों में गैस भरने के लिए अनुज्ञप्ति परिसर, जिसकी अभिन्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं. G/HO/GJ/05/733 dated March 13, 2013 में दिखाया गया है, VILAYAT में अवस्थित है और जिसमें अन्य सुविधाओं से जोड़े गए CHLORINE - 28 Nos. (2x9+10) फिलिंग पॉइंट्स 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 PlotNo :1& 2 Survey No 357 Paiky गली का नाम : GIDC Industrial Estate Taluka Vagra गांव : VILAYAT पुलिस थाना : Vagra जिला :BHARUCH राज्य: Gujarat. /and is situated at PlotNo :1& 2 Survey No 357 Paiky Name of Street :GIDC Industrial Estate Taluka Vagra Village/Town :VILAYAT Police Station : Vagra District : BHARUCH, State: Gujarat.

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

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

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

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



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



वार्षिक शुल्क Rs. 12000/- per year

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

M/s. Grasim Industries Limited, Plot NO 1 GIDC Vilayat Industrial Estate, Taluka Vagra, City: Vilayat, District: BHARUCH, State: Gujarat, Pin: 392140 को नीचे वर्णित और रेखांक संख्या G/HO/GJ/06/724(G31658) dated 13/03/2013 में दर्शित किए गए 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, केवल संपीड़ित गैस से भरे सिलेण्डरों 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 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
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

March 13, 2013

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

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

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

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

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

नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	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 सिलेण्डर 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>उप मुख्य विस्फोटक नियंत्रक, 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 सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा। / This licence is liable to be cancelled if the 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)
9th Floor, Park Paradise, Vadsar,
Vadodara - 390012

E-mail : jtcce.vadodara@explosives.gov.in

Phone/Fax No : 0265 - 2361035

Dated : 18/10/2023

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

To,

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

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

Sir(s),

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

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

- 1.The degassing of the contents shall be done at the place approved by this office.The cylinders shall be fully degassed till they show zero reading for the absence of the flammable gas when tested with Explosives meter before subjecting the cylinders for testing.
- 2.Not more than five cylinders shall be degassed at a time.
- 3.The degassing and testing of cylinders shall be carried out only during daylight hours.
- 4.The examination and testing of cylinders shall be carried out only under continuous supervision of qualified and experinaced pesonnel.
- 5.The Cylinders,which are approved for filling in writing by CCE office ,shall only be undertaken for periodic examination/Testing.
- 6.All provisions of the relevant Indian standard code of practice for cylinders inclusive visual inspection shall ebe observed.
- 7.CNG-ONB cylinders shall be subjected to Ultrasonic flaw detection test as per Annex D to IS:15490:2004.
- 8.The cylinders passed in the periodical examination and testing shall be marked with the code mark of the testing station and other relevant information as required under rule 6 of the Gas cylinders Rules,2016.The due date for next test or the the date of expiry of service life of the cylinder, as the case may be,shall be clerly marked on the stainless steel ring inserted between the valve and the neck of the cylinders.
- 9.The quality management system of the testing station shall be covered under ISO:9001 certification from BIS or any other internationally reputed certifying agency with the accreditation with NABCB(Indian Acrediation Body)with in six months.
- 10.The requirements of Provisions of Rule 35 of the said rules shall be followed and records of test and examination of Cylinders shall be maintained for the service life of the Cylinders.The data record maintainanace system shall be fully computerised .
- 11.The cylinders found unserviceable (Service life expired and failed in tests) shall be condemned as required under rule 36 of the said rules,and records there of shall be furnished to this office on the 1st of January,April,July and October every year.
- 12.No change in the organisational set up and machinery of testing station shall be effected without obtaining approval of this office.
- 13.The other relevant provisions of the said rules are complied with.

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

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

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

SPACE FOR ENDORSEMENT OF RENEWALS

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

Yours faithfully,

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

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

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

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

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

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

फीस रूपए (Fee Rs.) **23500/-** per year

M/s. Grasim Industries Limited, Plot No. 1, G.I.D.C. Vilayat Industrial Estate, P.O. Vilayat, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392140 को केवल इसमें यथा 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 **30/09/2019** जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती 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 **30/09/2019** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2033** तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December **2033**

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

July 2, 2014

For Chief Controller of Explosives
HQ, Nagpur

1). Amendment dated - 30/09/2019

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

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

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

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



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

महोदय/Sir
(s),

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

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

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

कृपया इस पत्र को प्राप्ति की पावती 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 ई / FORM E

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

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

अनुज्ञप्ति संख्या/ Licence No.: G/HO/GJ/05/738(G31657)

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

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

For Chief Controller of Explosives

Nagpur

कृते मुख्य विस्फोटक नियंत्रक
नागपुर

May 14, 2013

1) Amendment dated - 18/10/2018

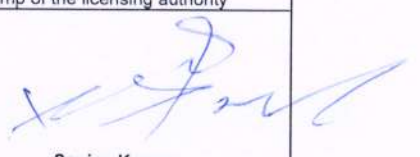
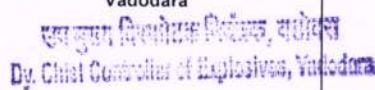
अनुज्ञप्ति परिसर का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेंडरों में गैस भरने के लिए अनुज्ञप्ति परिसर, जिसकी अभिव्यास सीमाओं और अन्य विशिष्टियों को संलग्न अनुमोदित रेखांक सं. G/HO/GJ/05/738 dated May 14, 2013 में दिखाया गया है, Vilayat में अवस्थित है और जिसमें अन्य सुविधाओं से जोड़े गए HYDROGEN - 8 Nos.(8x1) फिलिंग पॉइंट्स 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) विषैले/ Toxic	--NIL--
b) गैर विषैले और गैर ज्वलनशील /Non-Toxic and Non Flammable	--NIL--
c) गैर विषैले और ज्वलनशील /Non-Toxic and Flammable	HYDROGEN
d) घुलित एसिटिलीन गैस /Dissolved Acetylene Gas	--NIL--
e) एलपीजी के अलावा गैर विषैले और ज्वलनशील द्रवित गैस /Non-Toxic & Flammable liquefiable gas other than LPG	--NIL--
f) एलपीजी/ Liquefied 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 पृष्ठांकन के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

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

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

अनुज्ञप्ति की शर्त संख्या 8 में निहित कुछ भी होते हुए, सूर्योस्त 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.
- सूर्योस्त और सूर्योदय के दौरान सिलेंडरों का प्रेषण नहीं किया जाएगा। /Cylinders are not dispatched during sunset and sunrise.;



फार्म फ / FORM F

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

Licence to store compressed gas in cylinders

अनुज्ञाति संख्या/ Licence No. : G/HO/GJ/06/728(G31657)

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

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

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

For Chief Controller of Explosives

Nagpur

कृते मुख्य विस्फोटक नियंत्रक

नागपुर

May 14, 2013

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

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

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

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

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

नवीकरण की तारीख/Date of Renewal	समाप्ति की तारीख/Date of Expiry	अनुज्ञाति प्राधिकारी के हस्ताक्षर/Signature and stamp of the licensing authority
07/10/2019	30/09/2029	<p>इस अनुज्ञाति को, विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए गैस सिलिण्डर नियम, 2016 के उपबंधों या इस अनुज्ञाति 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>उप मुख्य विस्फोटक नियंत्रक, वडोदरा Dy. Chief Controller of Explosives, Vadodara</p>

यदि अनुज्ञाति परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञाति दी गई है, उनमें से किसी का उल्लंघन होता है तो यह अनुज्ञाति रद्द की जा सकती है और अनुज्ञाति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से, दण्डनीय भी होगा। / This licence is liable to be cancelled if the 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
वाणिज्य और उद्योग मंत्रालय /Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
पांचवा तल, ए-ब्लॉक, सी.जी.ओ. कॉम्प्लेक्स, सेमिनरी हिल्स
नागपुर - 440006

5th Floor, A-Block, CGO Complex, Seminary Hills, Nagpur - 440006

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

दूरभाष /Phone/Fax No : 0712 -2510248, Fax-2510577

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

दि/Dated : 27/06/2022

सेवा में/
To,

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

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

महोदय/
Sir(s),

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

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

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

अनुज्ञप्ति फीस में बदलाव हुआ है और भण्डारकरण के लिए फीस रु. 4000/- प्रति वर्ष तथा भरण के लिए फीस रु 5000/- प्रति वर्ष है. यह अनुज्ञप्ति दिनांक 30 सितम्बर 2029 तक प्रवृत्त रहेगी । The licence fee is changed. Storage fee is Rs. 4000/- per year and Filling fee is Rs.5000/- per year and the licence is valid upto 30th Sep, 2029.

कृपया पावती दें और भावी पत्राचार में इस अनुज्ञप्ति नंबर का संदर्भ दें. नवीनीकरण के लिए गैस सिलिण्डर नियम 2016 के नियम 55 के अनुसार प्रक्रिया का अनुपालन करें । / Please acknowledge the receipt of the same and quote this licence number in future correspondence. Please follow a procedure under Rule 55 of Gas Cylinders Rules, 2016 for Renewal of License.

भवदीय/Yours faithfully,

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

Copy forwarded to :-

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

For Chief Controller of Explosives
Nagpur

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

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



BEIL INFRASTRUCTURE LIMITED

(Formerly Known As Bharuch Enviro Infrastructure Limited)

29 JANUARY, 2022

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

Sub: Membership Certificate for Common Incineration Facility

Dear Sir,

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

Thanking you,

Yours faithfully,

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

AUTHORISED SIGNATORY



REF: BEIL/ANK/2022

02ND MARCH, 2022

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

Sub: Membership Certificate for Common Solid Waste Disposal Facility

Dear Sir,

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

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

Thanking you,

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


AUTHORISED SIGNATORY



"Certificate"

DETOX INDIA

operated by **VEOLIA**

Certificate No.:104361

To Whomsoever it may concern

This is to certify that

GRASIM INDUSTRIES LIMITED(CHEMICAL DIVISION)

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

is a valid member of

SAFE ENVIRO PRIVATE LIMITED

SEPL - Magnad

for

Integrated Common Hazardous Waste Management Facility

This membership is valid for a period of

05 Years

Date of Issue :09-11-2022

Date of Expiration : 09-11-2027

Place of Issue : Surat

For, Safe Enviro Private Limited

 ***Director***

SUBJECT TO SURAT JURI SDI CTI ON

Safe Enviro Private Limited

Survey No. 868, Village - Magnad, Tal. - Jambusar, Dist. - Bharuch - 392150 (Guj.) INDIA

Corporate Office : Detox House, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat-395 002 (Guj.) INDIA

Ph. : +91 261 2351248, 2346181 | E-mail : info.safeenviro@veolia.com | CIN : U51101GJ2015PTC083237



DETOX INDIA

operated by **VEOLIA**

REF:SEPL/ACCEPTANCE/104361/2022/31

Date:06.11.2022

TO WHOMSOEVER CONCERNED

CERTIFICATE

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

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

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

For, **Safe Enviro Pvt. Ltd.**

(Authorised Signatory)

Safe Enviro Private Limited

Site : Survey No 868, Village - Magnad, Tal - Jambusar, Dist - Bharuch - 392150 (Guj.) INDIA

Registered office: 3rd Floor, H.No.-2/801, 802, Hira Modi Sheri, Bhandariwad, Sagrampura, Surat- 395002, Gujarat

Ph. : +91 261 2351248, 2346181 | E-mail : info.safeenviro@veolia.com | CIN : U51101GJ2015PTC083237



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

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

Date: 04/08/2018

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

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

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

Dear Sir,

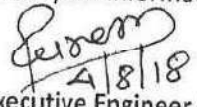
Vide letter under referenced letter no 1, you have demanded an assurance letter to discharge of 23.00 MLD industrial effluent.

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

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

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

This is for your Information Please.


Dy. Executive Engineer (DRG),
GIDC Bharuch.



GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
(A Govt. of Gujarat Undertaking)
Udhyog Bhavan, Block No.3, 4 & 5, Sector-I I,
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.

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION



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

Ref:- No. No GIDC/SE/CG/BRH/1236

Dated:- 29/12/2016

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


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

Dear Sir,

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

Similarly for water supply GIDC has already released 15.60 MLD water supply as per prevailing policy of the Corporation. Now as approved by GPCB, increase in quantity of water supply from 15.60 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

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



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

No. GIDC/PROJ/MKT/GRASIM/575

December 6, 2006

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

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

Dear Sir,

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

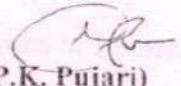
Please refer to your letters dt.28.11.2006, 4.12.2006 and 6.12.2006 as also the personal discussions Grasim team had with you on 2.12.2006 and 4.12.2006.

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

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

Thanking you.

Yours faithfully,


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

Encl.: As above



GIDC




Gandhinagar

Vilayat Estate allottee - M/s. Grasim Industries Limited

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

3.	<p><u>Effluent -</u></p> <p>Quantity -</p> <ul style="list-style-type: none"> - Allotted quantity 9.76 MLD. - For first phase minimum requirement is 12.48 MLD. <p>Request - To revise quantity to 12.48 MLD within the same allotment price.</p> <p>Charges - Request - To be charged based on actual disposal quantity on similar lines of water.</p>	EDP utilization staggered. 80% of the water requirement indicated at Column-2 above.
4.	<p><u>Power Line-</u></p> <p>Request- Power Lin passing through the plot to be shifted at no extra cost to us.</p>	GIDC is shifting the power line as per the revised planning of the Estate.
5.	<p><u>Commencement of Production -</u></p> <p>Request - To extend the time period for approval of building plan to the date on which last of the approval for construction of the project is obtained and consequently extend the time for "Commencement of Production" to five years from the date of such approval.</p>	Not acceptable.
6.	<p><u>The Project -</u></p> <p>Request - To allow any other project from Aditya Birla Group.</p>	GIDC will consider such requests as per rules for sub-letting & sub-dividing.

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


 GIDC



Date: 31/05/2023

GRASIM INDUSTRIES LIMITED
"A-2, ADITYA BIRLA CENTRE, S.K.AHIRE MARG,
WORLI SEA FACE,MUMBAI,
MUMBAI - 400030
MUMBAI
MAHARASHTRA
INDIA
27AAACG4464B9ZQ(GSTIN Number)

Policy No : 0304010255

Renewal : 00

Endorsement : 00

Dear Sir / Madam,

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

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

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

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

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

Yours Sincerely,
For Tata AIG General Insurance Company Limited



Authorized Signatory

**PUBLIC LIABILITY ACT POLICY
POLICY SCHEDULE**

Agent/Broker Name -ADITYA BIRLA INSURANCE BROKERS LTD

Agent/Broker License Code - 146:Agent/Broker :Contact No - 022-22058770 (mobile or landline)

Attaching to and forming part of Policy No.
Name of Insured Owner:

0304010255 00 00
GRASIM INDUSTRIES LIMITED

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, The company has also announced entry into paints business

Address:

"A-2, ADITYA BIRLA CENTRE, S.K.AHIRE MARG,
WORLI SEA FACE,MUMBAI,
MUMBAI - 400030
MUMBAI
MAHARASHTRA
INDIA
27AAACG4464B9ZQ(GSTIN Number)
Place of supply -MAHARASHTRA
State code -27

Territorial limits:

Anywhere in India

Policy Period: From: 01/04/2023 12:00 AM/ PM
To Midnight of: 31/03/2024 12:00 AM/ PM

Indemnity limit:Rs 50,000,000.00 in respect of any one accident and not exceeding 3 times thereof in the aggregate during the policy period.

Service Tax Registration No:

Premium	₹ 26,000.00
UGST/SGST @9 %	₹ 2,340.00
CGST @9 %	₹ 2,340.00

**Contribution to the
Environment Relief Fund:₹ 26,000.00**

Date of Proposal and declaration:22/01/2022

In witness whereof the undersigned being duly authorized by the company and on behalf of the company has hereto set his hand at MUMBAI on 31/05/2023

The stamp duty of 0.5 paid in cash or demand draft or by pay order,vide Receipt/Challan no: LOA/CSD/30/2023/2079 dated the 03/05/2023

For Tata AIG General Insurance Company Limited



Authorized Signatory

Date :31/05/2023
Place :MUMBAI

Policy Servicing Office

Tata AIG General Insurance Company Limited

2ND FLOOR, CITI TOWER, 61, DR. S.S.RAO ROAD,, NEXT TO M.G.M HOSPITAL, PAREL(E), MUMBAI - 400012,MUMBAI,MAHARASHTRA,MUMBAI-400012
Tel No:22-22-62606600

RECEIPT

Receipt No. : 102001046028325

Receipt Date : 30/03/2023

Policy No : 0304010255 00 00

Received with thanks from GRASIM INDUSTRIES LIMITED a sum of ₹ **56,680.00** (Rupees Fifty Six Thousand Six Hundred Eighty And Paise Zero Only)

Sr. No.	Policy Number	Total Premium (₹)	Utilized from the receipt for policy (₹)	Balance (₹)
1	0304010255 00 00	56,680.00	56,680.00	0.00

Note:

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

GSTIN : 27AABCT3518Q1ZW - MAHARASHTRA Service Accounting Code : 997139

Revenue (consolidated) Stamp Duty duly paid vide challan No.LOA-NO.CSD/507/4491 date 18/10/2022 for applicable cases.

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

IRDA Registration No.108, CIN No : U85110MH2000PLC128425, PAN : AABCT3518Q
Website: www.tataaig.com 24X7 Tollfree Helpline 1800-266-7780 E-mail: customersupport@tataaig.com

LIABILITY INSURANCE POLICY (UNDER PUBLIC LIABILITY INSURANCE ACT 1991)

1. OPERATIVE CLAUSE

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

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

2. DEFINITIONS:

- a) "ACT" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time;
- b) "Accident" means an accident involving a fortuitous, sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity;
- c) "Handling" in relation to any 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;
- d) "Hazardous Substance" means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified, by notification, by the Central Government;
- e) "Owner" means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:
 - i) in the case of a firm any of its partners;
 - ii) in the case of an association, any of its members, and
 - iii) in the case of a company, any of its directors, managers, secretaries or other officers who is/are directly in charge of, and is/are responsible to the company for the conduct of the business of the company;
- f) "Turnover" shall mean
 - i) Manufacturing units-Annual Gross Sales of all goods including all levies and taxes
 - ii) Godowns/ warehouse owners-Total Annual rental receipts.
 - iii) Transport Operators-Total Annual freight receipts.
 - iv) Others-Total Annual gross receipts.

3. EXCLUSIONS:

- (1) arising out of wilful or intentional non-compliance of any Statutory provisions.
- (2) in respect of fines, penalties, punitive and/or exemplary damages.
- (3) arising under any other legislation except in so far as provided for in Section 8 Sub Section (1) and (2) of the Act.
- (4) in respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody.
- (5) directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power;
- (6) directly or indirectly caused by or contributed to by.
 - (a) ionising radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel
 - (b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

4. CONDITIONS:

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

Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale.
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IRDA Registration No.108, CIN No : U85110MH2000PLC128425, PAN : AABCT3518Q, UIN No : IRDAN108CP0058V01201819
Website: www.tataaig.com 24X7 Tollfree Helpline 1800-266-7780 E-mail: customersupport@tataaig.com

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

- (2) No admission, offer, promise or payments shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.
 - (3) The Company shall not be liable for any claim for relief made after five years from the date of occurrence of the accident.
 - (4) The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.
 - (5) If at the time of happening of any accident resulting in a claim under this policy there be any other insurance covering the same liability, then the Company shall not be liable to pay or contribute more than its ratable proportion of such liability.
 - (6) This policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the company in which event the Company will retain premium at short period scale subject to there not having occurred an accident during the policy period which may give rise to a claims(s), failing which no refund of premium shall be allowable.
 - (7) This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a ratable proportion of the premium for the unexpired term from the date of cancellation.
- If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer
- (8) have been made the subject matter of a suit in a competent court of law, then the claim for the practical purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.
- The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported, by any person on behalf of the
- (9) Insured Owner and/or if the insurance has been continued in consequence of any material misstatement or non-disclosure of any material information by or on behalf of the Insured Owner. In such a case if the Company pays any amount to the claimant due to any statutory provision such amount shall be recoverable from the Insured Owner.
- (10) The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or in this Policy shall bear such specific meaning.
 - (11) Any dispute regarding interpretation of the terms, conditions and exclusions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.

GRIEVANCE REDRESSAL POLICY

Grievance Lodgment Stage

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

Call us 24X7 toll free helpline 1800 266 7780

Email us at customersupport@tataaig.com

Write to us at : Customer Support, Tata AIG General Insurance Company Limited

A-501 Building No.4 IT Infinity Park, Dindoshi, Malad (E), Mumbai - 400097

Visit the Servicing Branch mentioned in the policy document

Nodal Officer

Please visit our website at www.tataaig.com to know the contact details of the Nodal Officer for your servicing branch.

After investigating the grievance internally and subsequent closure, we will send our response within a period of 10 days from the date of receipt of the complaint by the Company or its office in Mumbai. In case the resolution is likely to take longer time, we will inform you of the same through an interim reply.

Escalation Level 1

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

Escalation Level 2

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

List of Insurance Ombudsman Offices

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

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IRDA Registration No.108, CIN No : U85110MH2000PLC128425, PAN : AABCT3518Q, UIN No : IRDAN108CP0058V01201819

Website: www.tataaig.com 24X7 Tollfree Helpline 1800-266-7780 E-mail: customersupport@tataaig.com

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



S R Healthcare Services

+91 704 371 6666

srhealthcarebh@gmail.com

(on) - Shree Shyam

mob No - 9955057411

Ad. No - 346509473759

Medical Certificate of Fitness

PHNT = MEE

DATE - 20/3/2023

Date: 25/03/2023

BP - 120/70 mmHg

We here by certify that we have carefully examined Mr. Birjhu Gond

Age: 36 Yrs/Male and find that he is not suffering from any illness and is Fit to

continue duties in your organization. We also certify that before arriving at this

decision, we have examined all the original medical records of his

☐

Pre-employment Medical Health Checkup.

☒

Periodical Medical Health Checkup.

Sign of Consultant:

Stamp of Consultant:

DR. DEVIKANTA, SHARMA
M.D. (PHN), M/BS, CH
OCCUPATIONAL HEALTH CONSULTANT
REG. No.: B-1075





GRASIM INDUSTRIES LIMITED - CHEMICAL DIVISION, VILAYAT
AGENCY STAFF MEDICAL EXAMINATION RECORD
FORMAT NO.: F05 (OHC-P-02)

Name Brajesh Choud Gender male
DOB 1967 Age 36 Years
Marital Status married Children Male: 01 Female: 01
Residential Address Jharkhand Contract Name: Shree Shyam con

PERSONAL HISTORY

Diet Non Veg Yes N-Veg No Smoking No Yes No
Tobacco Chewing No Yes No Any Medication No Yes No
Details of Medication (If Any)

Past History (Self/ Family)

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

OCCUPATIONAL HISTORY

(In Chronological Order – Starting from Present)

Sr. No.	Name of Orgnization	Type of Work [Office work/ Field work/ Mixed]	Exposure [Noise/Gas/ Chemical/ Computer/Dust etc.]	Duration

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

Signature of Candidate
Date

Signature of Doctor with Seal
Date

DR. DEVKUMAR VARMA
MBBS, (PATH), MRCG, RH
OCCUPATIONAL HEALTH CONSULTANT
REG. No.: G-11075

Medical Examination Record of Mr./Ms.

CLINICAL EXAMINATION FINDINGS:

Height	166	Cms	Weight	69.	Kgs
BMI:	25.0				
Abd. Girth	87		Chest Inspiration	94	Cms
			Expiration	96	Cms

RESPIRATORY SYSTEM

Resp. Rate: 17/min	Shape of Chest: P	Trachea: P
Breath sounds: P	Any Adventitious sound: P	

CARDIO - VASCULAR SYSTEM

Pulse: 67/min,	Regular/Irregular	Blood Pressure: 130/80.
Heart Sounds: P	Murmur: Absent	

CENTRAL NERVOUS SYSTEM

Cranial Nerves: P	Sensory Functions: P
Motor Functions: P	Reflexes: P

GASTRO-INTESTINAL SYSTEM:

Teeth: P	Gums: P	Tongue: P
Liver: P	Spleen: P	Any Lump: P

GENITO-URINARY SYSTEM

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

EXAMINATION OF EYES

Squint: P	Nystagmus: P
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	Far Vision		Near Vision	
	Right	Left	Right	Left
Without Glass	6/6	6/6	N/6	N/6
With Glass				
Power of Glasses				
Colour Vision	No Smell			

Remarks

EXAMINATION OF EAR, NOSE & THROAT

Tonsils

Ear Canal :

Whispered voice :

Tympanic Membrane:

Any discharge:

LOCOMOTOR SYSTEM

Gait :

Spine :

Any abnormality:

For Females Only:

Age of Menarche

Breast examination:

Pregnancy test (If indicated):

L. M. P.: N.A

INVESTIGATION REPORTS OF Mr./ Ms.

BLOOD

B. Sugar F	—	S. Uric Acid	—
B. Sugar PP	—	SGPT	27
B. Sugar R	89	SGOT	33.4
S. Cholesterol	—	Hb%	14.30
S. Triglyceride	—	Total WBC count	6,500
HDL	—	RBC	4.70
LDL	—	Total platelet	2,19,000
S. Creat.	1.0	ESR	7
B. Urea	—	Blood Group	B+ve
Differential Count	Neutro 62	Lymph 34	Eosino 02
Urine R/E	Colour P.Y	pH Acidic	Sugar Ab
Microscopy	PusCell 0CC	RBC Ab	Epith. 4-5
Any Other Investigation			

X-Ray Chest Report:

— N.A

ECG Report:

— WNL

Audiometry Report:

— BIL Normal

PFT Report:

— Normal

Ultrasonography report (If required)

Any Other Investigation done:

OBSERVATIONS

R. DEVIKULAR VARMA
M.D. (PHT), D.M.S., C.M.
OCCUPATIONAL HEALTH CONSULTANT
REG. No.: G-11075
Signature & Seal
Examining Doctor

Registration Number:

Date:

Name : BIRJHU GOND
Ref By : C/O S.R.H

Age/Sex : 36 Yrs./M
Date : 25/03/2023
Report ID. : 7

HAEMATOLOGY ANALYSIS

TEST	RESULT	UNIT	METHOD	REFERENCE INTERVAL
<u>BLOOD COUNTS & INDICES</u>				
Haemoglobin	: 14.30	gm%		13.5 - 17.0 gm%
Total RBC	: 4.70	mill/cmm		4.6 - 6.2 mill/cmm
PCV	: 47.00	%		40 - 54 %
MCV	: <u>100.00</u>	fL		80 - 96 fL
MCH	: 30.43	pg		27 - 31 pg
MCHC	: <u>30.43</u>	%		32 - 36 %
RDW	: 12.40	%		10 - 15 %
Total WBC	: 6,500	/cmm		4,000 - 11,000/cmm
Platelet Count	: 2,19,000	/cmm		1.5 - 4.0 Lac/cmm.
<u>DIFFERENTIAL LEUCOCYTES COUNT</u>				
Neutrophils	: 62	%		55 - 70 %
Lymphocytes	: 34	%		20 - 40 %
Eosinophils	: 02	%		01 - 06 %
Monocytes	: 02	%		02 - 08 %
Platelet In Smear	: ADEQUATE			
<u>ERYTHROCYTES SEDIMENTATION RATE</u>				
ESR	: 7	mm	Westergren	01 - 07 mm
Blood Group	: "B"			
Rh Factor (Anti D.)	: "POSITIVE"			

Test done on Fully automated Cellcounter - NIHON KOHDEN, JAPAN

End Of Report

VARMA LABORATORY

ADVANCED PATHOLOGICAL LABORATORY

Dr. Dev Varma
M.D. (Path.) CIH
Consultant Pathologist
Reg. No. G - 2489

Name : BIRJHU GOND
Ref By : C/O S.R.H

Age/Sex : 36 Yrs./M
Date : 25/03/2023
Report ID. : 7

BIOCHEMISTRY ANALYSIS

<u>TEST</u>	<u>RESULT</u>	<u>UNIT</u>	<u>REFERENCE INTERVAL</u>
Creatinine	: 1.0	mg/dl	0.70 - 1.40 mg/dl
S.G.P.T.	: 27	U/L	UP TO 40 U/L
S.G.O.T.	: 33.4	U/L	up to 40 U/L
Random Blood Glucose (RBS)	: 89	mg/dl	70 - 140 mg/dl

Test done on Fully automated Bio - Chemistry analyzer - TurboChem100.


URINE ANALYSIS

Sample	: RANDOM
<u>PHYSICAL EXAMINATION</u>	
Quantity	: 10 ml
Colour	: PALE YELLOW
Transparency	: CLEAR
Specific Gravity	: 1.030
pH	: ACIDIC
<u>CHEMICAL EXAMINATION</u>	
Albumin	: ABSENT
Sugar	: ABSENT
Acefone	: ABSENT
Bile Salts	: ABSENT
Bile Pigments	: ABSENT
Occult Blood	: ABSENT
<u>MICROSCOPIC EXAMINATION</u>	
Pus Cells / h.p.f.	: OCCASIONAL
R.B.C. / h.p.f.	: ABSENT
Epithelial / h.p.f.	: 4-5

End Of Report

VARMA PATHOLOGICAL LABORATORY

Palmind Hospital, Falshruti Nagar, Station Road,
Bharuch. (M) 7622020709


Dr. Dev Varma
M.D. (PATH.) CIH
Consultant Pathologist

TIME : 8:30 A.M. TO 7:30 P.M.

MATESHREE ENT. HOSPITAL AUDIOGRAM



DR. GAURANG JOSHI
D.L.O.M.S. (ENT)
CIH

C-15, Capital Business Centre,
Opp. Central Bank of India,
Panch Batti, Bharuch-392 001.
Phone : (H) 269880

Code No. : _____ Date : 25/03/23

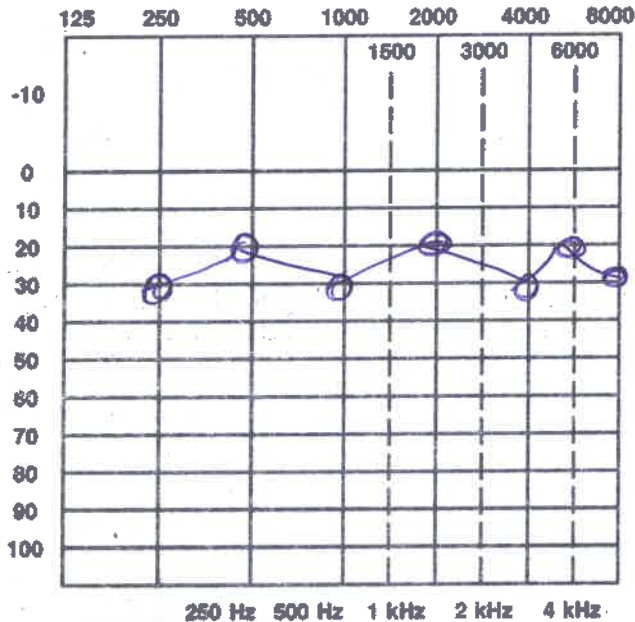
Audiogram of Biojhu Gonal

Age 36 Yrs. Sex M Ref. by _____

Occupation _____

Address _____

RIGHT

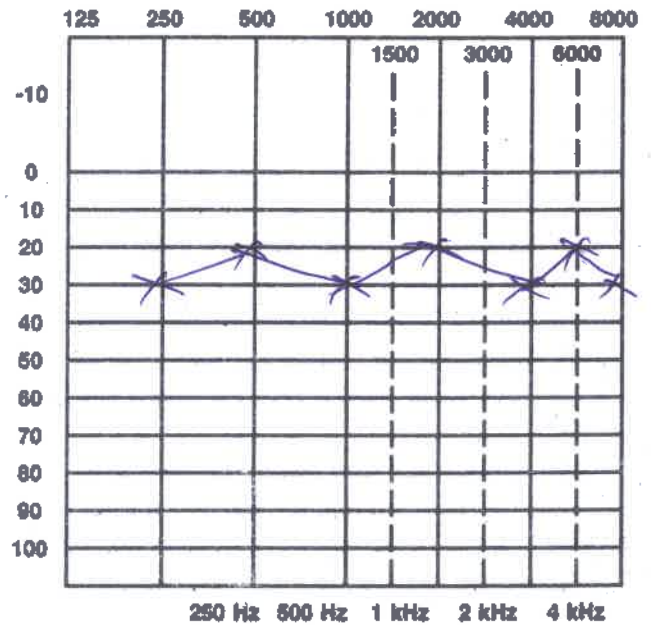


WEBER
Lateralized to

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	A.C.	B.C.	A.C. MASK	B.C. MASK	NOT HEARD
R	O	<	△	I	0 ↓
L	X	>	□	I	X ↓

LEFT



Clinical Findings _____

Comments B/L Normal

Dr. Gaurang Joshi
DLO MC (ENT)
Regd G 7567
Mateshree ENT Hospital
C-15, Capital Business Center,
Panchbatti, BHARUCH-392001
Ph.: (H)02642-269880

DR. GAURANG JOSHI
D.L.O.M.S. (ENT) CIH



Medicaid

Krishna Occupational Health Center Bharuch

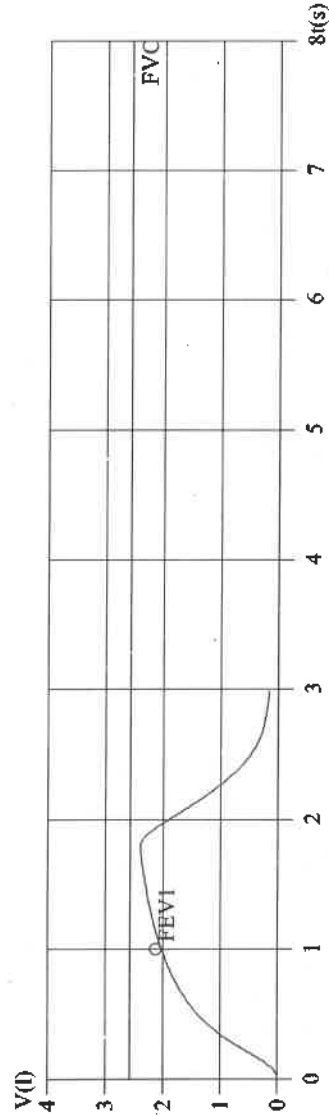
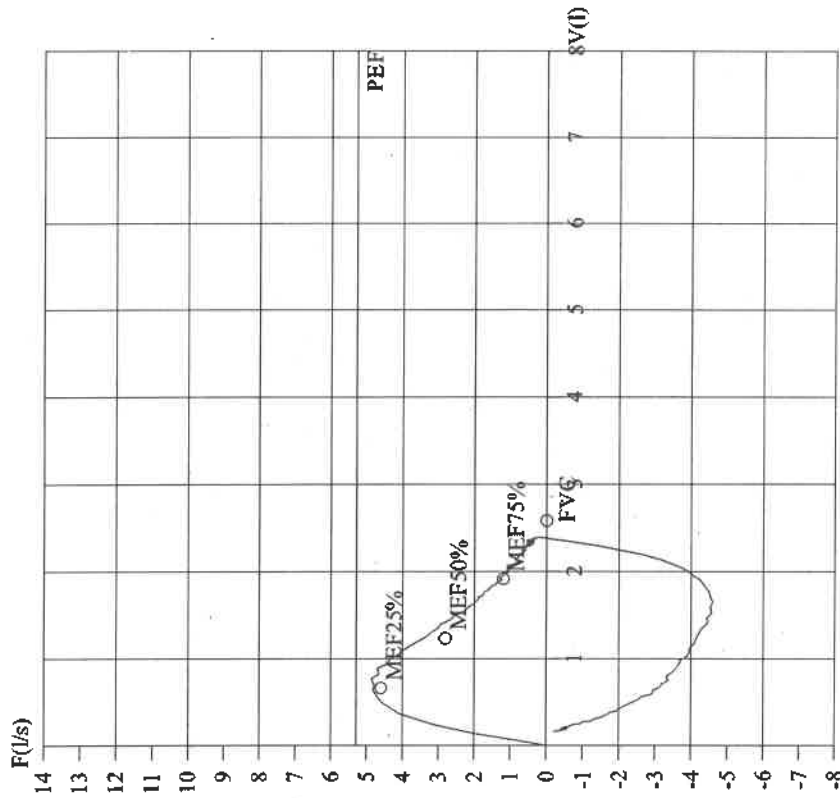
Last Name: **BIRJHU GOND**
First Name: **SR05704**
ID: **25-03-2023**
Date: **ERS 93**
Predicted:

Date of Birth: **10-03-1987**
Sex: **Male**
Ethnic Corr.: **60%**
Description:
Comments:

Age: **36**
Weight (Kg): **69**
Height (cm): **166**
BSA (m2): **1.77**
Smoke: **ex**

TEST #1 - 25-03-2023

Forced Vital Capacity



Parameter (U)	Pred.	Pre	%Pred.
FVC(L)	2.57	2.53	98.4
FEV0.5(L)	---	1.47	---
FEV1(L)	2.16	2.14	99.1
FEV1/FVC%	80.73	84.58	104.8
PEF(L/s)	5.28	4.86	92
PIF(L/s)	---	4.6	---
FEF25-75%(L/s)	2.62	3.08	117.6
Vmax25%(L/s)	4.53	4.83	106.6
Vmax50%(L/s)	2.9	3.42	117.9
Vmax75%(L/s)	1.23	1.6	130.1
FET100%(s)	---	1.79	---
ELA (Years)	81	81	---

INTERPRETATION

Pre : Normal Spirometry (%FEV1/FVC>80%Pred,%FEV1/FVC and FVC>80%PredFVC)

FORM NO. 32
(Prescribed under Rule 68-T and 102)

Health Register


1. Serial Number in the Register
Of adult Workers:
2. Name of Worker:
3. Sex:
4. Date of birth:

1	Heipex	Department Works
2.	Manipulation of Acid & Alkalies	Name of Hazardous process
3.	Chemical Works.	Dangerous process/operation
4		Nature of job or occupation
5		Raw materials, products or By-products likely to be exposed to
6	11/10/22	Date of posting
7		Date of leaving/transfer to or transfer
8		Reasons for Discharge/ leaving or transfer
9	25/03/23	Date
10		Signs and symptoms Observed during examination
11	CBC,ESR,RBS,B.G.,SGPT, SGOT,CREAT.,URINE R/M, ECG,EYE,AUDIO,SPIRO.	Nature of tests & results thereof
12	fit	Result Fit/Unfit
13		Period of temporary Withdrawal from that work
14		Reasons for such withdrawal
15		Date of declaring him Unfit for that work
16	25/03/23 Bijay Kumar	Date of issuing fitness Certificate
17	<p>DR. DEVKUMAR VARMA M.D. (PATH), MBBS, CPH OCCUPATIONAL HEALTH CONSULTANT REG. No.: G-11075</p>	


Medical examination
Results therefore

If declared unfit for work


Signature with date of the
factory
Medical Officer/ the
Certifying Surgeon.



ભારત સરકાર
Government of India



Issue Date: 22/12/2012




બિરજુ ગોંડ
Birju Gond
જન્મ તારીખ/DOB: 01/01/1987
પુરુષ/ MALE


3465 0947 3758

VID : 9179 5484 7972 2761

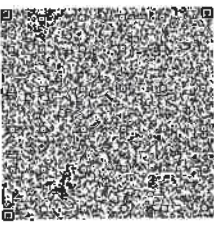
મારી આધાર, મારી ઓળખ



ભારતીય વિશિષ્ટ ઓળખાણ પ્રાધિકરણ
Unique Identification Authority of India



Download Date: 15/12/2022
S/O: જાકુલ ગોંડ, ડીપા ટોલી, ગ્રામ- સિકરીયાડાંડ
થાન- સિમડેગા, સિકરીયાડાંડ, સિમડેગા,
જારખંડ - 835228
Address:
S/O: Jakul Gond, DIPA TOLI, VILL-
SIKARIYADANR, PS- SIMDEGA, Sikariadanr,
Simdega,
Jharkhand - 835228



3465 0947 3758

VID : 9179 5484 7972 2761

☎ 1947 | ✉ help@uidai.gov.in | 🌐 www.uidai.gov.in

Birju

~~28/3/23~~
Bp - 130/80 mmHg
28/3/23

Medical Certificate of Fitness

Cont: Shree Bhagwadi
Plant: S.B.P

Date: 27/03/2023

Design: Helper
mo: 7990477835

A.O. No: 6321 1591 1050

We here by certify that we have carefully examined Mr. Fuleshwar Kora

Age: 30 Yrs/Male and find that he is not suffering from any illness and is Fit to

continue duties in your organization. We also certify that before arriving at this

decision, we have examined all the original medical records of his

☐ Pre-employment Medical Health Checkup.

☒ Periodical Medical Health Checkup.

Sign of Consultant:

Stamp of Consultant:

DR. DEVKUMAR VARMA
M.D. (PATHOLOGY), CH
OCCUPATIONAL HEALTH CONSULTANT
REG. No.: G-11075





GRASIM INDUSTRIES LIMITED - CHEMICAL DIVISION, VILAYAT
AGENCY STAFF MEDICAL EXAMINATION RECORD
FORMAT NO.: F05 (OHC-P-02)

Name Fuleshwar B. Kose Gender male
DOB 01/01/1993 Age 30 Years
Marital Status married Children Male: 03 Female:
Residential Address Bheers Contract Name: Shree Bhagwati Jay.

PERSONAL HISTORY

Diet non Veg ☒ Yes N-Veg ☐ No Smoking ☐ Yes ☒ No
Tobacco Chewing ☐ Yes ☒ No Any Medication ☐ Yes ☒ No
Details of Medication (If Any)

Past History (Self/ Family)

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

OCCUPATIONAL HISTORY

(In Chronological Order – Starting from Present)

Sr. No.	Name of Organization	Type of Work [Office work/ Field work/ Mixed]	Exposure [Noise/Gas/ Chemical/ Computer/Dust etc.]	Duration

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

कुले २०२ केश

Signature of Candidate
Date

Signature of Doctor with Seal
Date

DR. DEVKUMAR VARMA
M.D. (PATH), MBBS, CH
OCCUPATIONAL HEALTH CONSULTANT
REG NO. 601095

Medical Examination Record of Mr./Ms.

CLINICAL EXAMINATION FINDINGS:

Height	153	Cms	Weight	46.7	Kgs
BMI:	19.9				
Abd. Girth	73		Chest Inspiration	86	Cms
			Expiration	88	Cms

RESPIRATORY SYSTEM

Resp. Rate: 18/min	Shape of Chest: (C)	Trachea: (C)
Breath sounds: (C)	Any Adventitious sound: (C)	

CARDIO-VASCULAR SYSTEM

Pulse: 72/min	Regular/Irregular	Blood Pressure: 130/85
Heart Sounds: (C)	Murmur: Absent	

CENTRAL NERVOUS SYSTEM

Cranial Nerves: (C)	Sensory Functions: (C)
Motor Functions: (C)	Reflexes: (C)

GASTRO-INTESTINAL SYSTEM:

Teeth: (C)	Gums: (C)	Tongue: (C)
Liver: (C)	Spleen: (C)	Any Lump: (C)

GENITO-URINARY SYSTEM

Hernia: (C)	Hydrocoele: (C)
Phimosis: (C)	Crypto-Orchidism: (C)
Any feature of STD: (C)	

EXAMINATION OF EYES

Squint: (C)	Nystagmus: (C)
-------------	----------------

	Far Vision		Near Vision	
	Right	Left	Right	Left
Without Glass	6/6	6/6	N/6	N/6
With Glass				
Power of Glasses				
Colour Vision	No smell			

Remarks

EXAMINATION OF EAR, NOSE & THROAT

Tonsils	(P)	Tympanic Membrane:	(P)
Ear Canal :	(P)	Any discharge:	(P)
Whispered voice :		LOCOMOTOR SYSTEM	
Gait :	(P)	Spine :	(P)
		Any abnormality:	(P)
For Females Only:		Pregnancy test (If indicated):	
Age of Menarche		L. M. P.:	N.A.
Breast examination:	N.A.		

INVESTIGATION REPORTS OF Mr./ Ms.

BLOOD								
B. Sugar F	—				S. Uric Acid	—		
B. Sugar PP	—				SGPT	20		
B. Sugar R	87				SGOT	22.5		
S. Cholesterol	—				Hb%	15.20		
S. Triglyceride	—				Total WBC count	8,800		
HDL	—				RBC	5.30		
LDL	—				Total platelet	2,33,000		
S. Creat.	0.8				ESR	4		
B. Urea	—				Blood Group	A+ve		
Differential Count	Neutro	56	Lymph	38	Eosino	03	Mono	03
Urine.R/E	Colour	p.y	pH	Acidic	Sugar	Ab	Albumin	Ab
Microscopy	PusCell	1-2	RBC	Ab	Epith.	3-4	Cast	—

Any Other Investigation

X-Ray Chest Report: — N.A.

ECG Report: — CONL

Audiometry Report: — BIL Normal

PFT Report: — Normal

Ultrasonography report (If required)

Any Other Investigation done:

OBSERVATIONS

DR. DEVKUMAR VARMA
M.D. (PATH), MBBS, CH
OCCUPATIONAL HEALTH CONSULTANT
REG. No.: G-11075

Signature & Seal
Examining Doctor

Registration Number:
Date:

Name : FULESWAR BUDHAN
Ref By : C/O S.H.R

Age/Sex : 30 Yrs./M
Date : 27/03/2023
Report ID. : 19

HAEMATOLOGY ANALYSIS

TEST	RESULT	UNIT	METHOD	REFERENCE INTERVAL
<u>BLOOD COUNTS & INDICES</u>				
Haemoglobin	: 15.20	gm%		13.5 - 17.0 gm%
Total RBC	: 5.30	mill/cmm		4.6 - 6.2 mill/cmm
PCV	: 39.80	%		40 - 54 %
MCV	: 75.09	fL		80 - 96 fL
MCH	: 28.68	pg		27 - 31 pg
MCHC	: 38.19	%		32 - 36 %
RDW	: 12.30	%		10 - 15 %
Total WBC	: 8,800	/cmm		4,000 - 11,000/cmm
Platelet Count	: 2,33,000	/cmm		1.5 - 4.0 Lac/cmm.
<u>DIFFERENTIAL LEUCOCYTES COUNT</u>				
Neutrophils	: 56	%		55 - 70 %
Lymphocytes	: 38	%		20 - 40 %
Eosinophils	: 03	%		01 - 06 %
Monocytes	: 03	%		02 - 08 %
Basophils	: 00	%		00 - 01 %
Platelet In Smear	: ADEQUATE			
<u>ERYTHROCYTES SEDIMENTATION RATE</u>				
ESR	: 4	mm	Westergren	01 - 07 mm
Blood Group	: " A "			
Rh Factor (Anti D.)	: " POSITIVE "			

Test done on Fully automated Cellcounter - NIHON KOHDEN, JAPAN

End Of Report

Name : FULESWAR BUDHAN
Ref By : C/O S.H.R

Age/Sex : 30 Yrs./M
Date : 27/03/2023
Report ID. : 19

BIOCHEMISTRY ANALYSIS

<u>TEST</u>	<u>RESULT</u>	<u>UNIT</u>	<u>REFERENCE INTERVAL</u>
Creatinine	: 0.8	mg/dl	0.7- 1.4 mg/dl
S.G.P.T.	: 20	U/L	UP TO 40 U/L
S.G.O.T.	: 22.5	U/L	up to 40 U/L
Random Blood Glucose (RBS)	: 87	mg/dl	70 - 140 mg/dl

Test done on Fully automated Bio - Chemistry analyzer - TurboChem100.

URINE ANALYSIS

Sample : RANDOM

PHYSICAL EXAMINATION

Quantity : 20 ml
Colour : PALE YELLOW
Transparency : CLEAR
Specific Gravity : 1.030
pH : ACIDIC

CHEMICAL EXAMINATION

Albumin : ABSENT
Sugar : ABSENT
Acetone : ABSENT
Bile Salts : ABSENT
Bile Pigments : ABSENT
Occult Blood : ABSENT

MICROSCOPIC EXAMINATION

Pus Cells / h.p.f. : 1-2
R.B.C. / h.p.f. : ABSENT
Epithelial / h.p.f. : 3-4

End Of Report



Dr. Dev Varma
M.D. (Path.) CIH
Consultant Pathologist

MATESHREE ENT. HOSPITAL AUDIOGRAM



DR. GAURANG JOSHI
D.L.O.M.S. (ENT)
CIH

C-15, Capital Business Centre,
Opp. Central Bank of India,
Panch Batti, Bharuch-392 001.
Phone : (H) 269880

Code No. : _____ Date 27/03/23

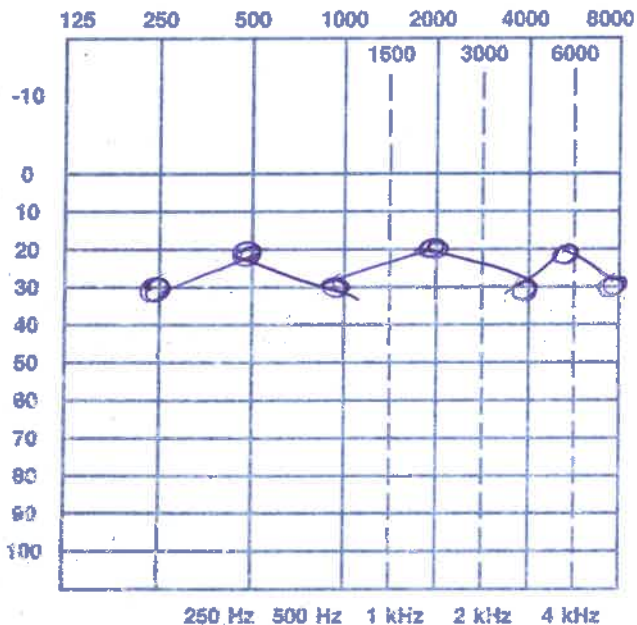
Audiogram of Fuleshuwar

Age 30 Yrs. Sex M Ref. by _____

Occupation _____

Address _____

RIGHT



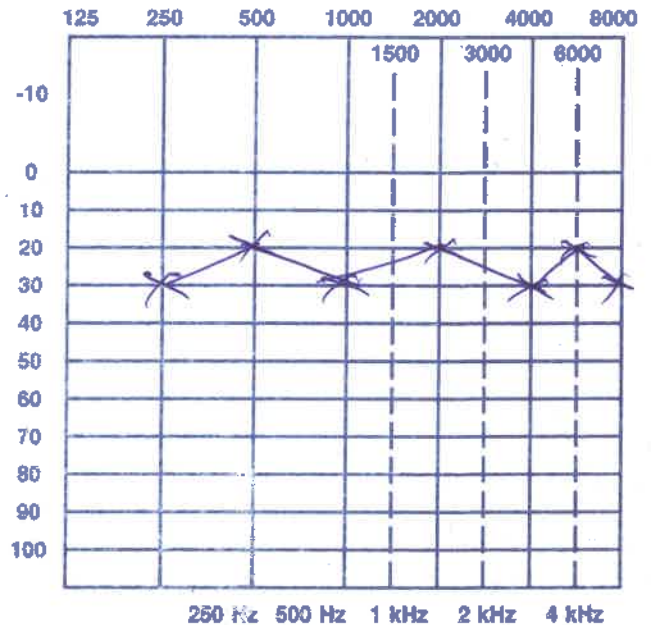
WEBER
Lateralized to

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	A.C.	B.C.	A.C. MASK	B.C. MASK	NOT HEARD
R	O	<	△]]	O ↓
L	X	>	□	[[X ↓

Comments BIL. Normal

LEFT



Clinical Findings _____

Dr. Gaurang Joshi
D.L.O.M.S. (ENT)

Regd G 7667

Mateshree ENT Hospital
C-15, Capital Business Center,
Panchbatti, BHARUCH-392001
Ph - 269880

DR. GAURANG JOSHI
D.L.O.M.S. (ENT) CIH



Krishna Occupational Health Center Bharuch

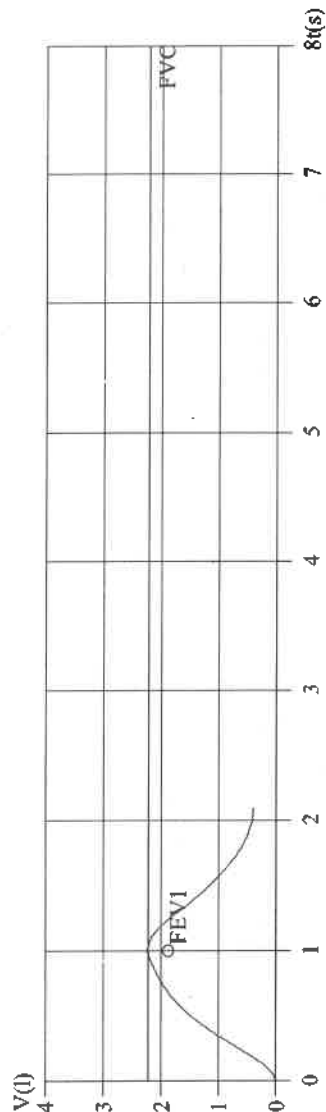
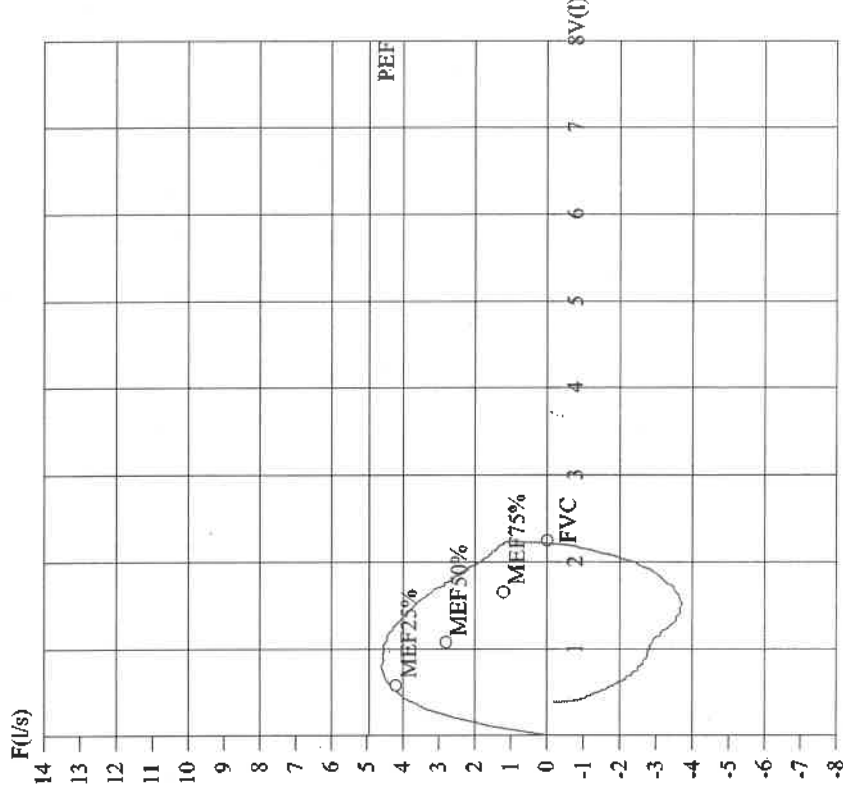
Last Name: FULESHWAR KORA
First Name: SR05728
ID: 27-03-2023
Date: ERS 93
Predicted:

Date of Birth: 10-03-1993
Sex: Male
Ethnic Corr.: 60%
Description:
Comments:

Age: 30
Weight (Kg): 46
Height (cm): 153
BSA (m2): 1.4
Smoke: ex

--- TEST #1 - 27-03-2023

Forced Vital Capacity



Parameter (U)	Pred.	Pre	%Pred.
FVC(L)	2.22	2.37	106.8
FEV0.5(L)	---	1.56	---
FEV1(L)	1.93	2.37	122.8
FEV1/FVC%	81.81	100	122.2
PEF(L/s)	4.95	4.61	93.1
PIF(L/s)	---	3.72	---
FEF25-75%(L/s)	2.63	4.1	155.9
Vmax25%(L/s)	4.21	4.39	104.3
Vmax50%(L/s)	2.71	4.45	164.2
Vmax75%(L/s)	1.12	3.13	279.5
FET100%(s)	---	1	---
ELA (Years)	73	73	

INTERPRETATION

Pre : Normal Spirometry (%FEV1/FVC>80%Pred,%FEV1/FVC and FVC>80%PredFVC)

Dr. GAURANG JOSHI
MS, M.B., D.I.H.
Dr. Gaurang Joshi (M.B. C.I.H.)

FORM NO. 32
(Prescribed under Rule 68-T and 102)

Health Register

1. Serial Number in the Register
Of adult Workers:
2. Name of Worker: *Fuleshudas Braham Kooel*
3. Sex: *male*
4. Date of birth: *01/01/1993.*

1	<i>Hepler</i>	Department Works
2.	Manipulation of Acid & Alkalis	Name of Hazardous process
3.	Chemical Works.	Dangerous process/operation
4		Nature of job or occupation
5		Raw materials, products or By-products likely to be exposed to
6	<i>30/09/2022</i>	Date of posting
7		Date of leaving/transfer to or transfer
8		Reasons for Discharge/ leaving or transfer
9	<i>27/03/23</i>	Date
10		Signs and symptoms Observed during examination
11	CBC,ESR,RBS,B.G.,SGPT, SGOT,CREAT.,URINE R/M, ECG,EYE,AUDIO,SPIRO.	Nature of tests & results thereof
12	<i>Fit</i>	Result Fit/Unfit
13		Period of temporary Withdrawal from that work
14		Reasons for such withdrawal
15		Date of declaring him Unfit for that work
16	<i>27/03/23</i>	Date of issuing fitness Certificate
17	DR. DEVKUMAR VARMA M.D. (PATH), MBBS, CIH OCCUPATIONAL HEALTH CONSULTANT REG. No.: G-1075	Signature with date of the Factory Medical Officer/ the Certifying Surgeon.

EMPLOYEE DETAILS				SR NO. 36	
EMPLOYEE NAME	PATEL USMANGANI H.		AGE/GENDER	23	MALE
FATHER'S NAME	HASANBHAI		DATE OF BIRTH	22.01.2000	
DESIGNATION	JR. TECHNICIAN ASSISTANT		DATE	05.12.2022	
DEPARTMENT	CMS-INSTRUMENT		EMP. CODE	11523	
COMPANY NAME	GRASSIM CHEMICAL DIVISION, VILAYAT				
GENERAL EXAMINATION					
WEIGHT	77	Kg	HEIGHT	170	cm
BP	120/80	mm of Hg	PULSE	76	/min
BMI	26.64	Kg/m ²	BLOOD GROUP	***	
SPO2	99	%	TEMPERATURE	NORMAL	
MEDICAL HISTORY					
Past History	NIL SIGNIFICANT		Personal History	NIL SIGNIFICANT	
Family History	FATHER - D.M.		Addiction	NIL SIGNIFICANT	
Allergic History	NIL SIGNIFICANT		Occupational History	NIL SIGNIFICANT	
Present Complaints	NO SPECIFIC HISTORY OF FEVER OR COUGH		Symptoms of COVID-19	NAD	
VISION TESTING					
ACURITY OF VISION:	RT EYE		LT EYE		COLOUR VISION
DISTANCE	6/6		6/6		ACCEPTABLE WITHOUT GLASS
NEAR	N/6		N/6		
SYSTEMETIC EXAMINATION					
CVS	S1, S2 – NORMAL, NO MURMUR		ENT Ex: (EAR, NOSE, THROAT)		NAD
R/S	CLEAR WITH EQUAL AIR ENTRY		SKIN Ex & Nail Ex		NAD
ABDOMEN	SOFT, NON TENDER		Musculoskeletal System		NAD
CNS	CONCIOUS & ORIENTED		Genitourinary System		NAD
IDENTIFICATION MARK	SCAR ON FOREHEAD				
ADVICE	REGULAR EXERCISE & DIET				
REMARK	OVERWEIGHT				
ECG	NORMAL				
X-RAY	***				
SPIROMETARY	WITH NORMAL LIMIT				
AUDIOMETARY	B/L WITH NORMAL LIMIT				
FITNESS STATUS	FIT				

NOTE : THIS REPORT IS NOT FOR LEGAL IMPLICATION AND PURPOSE, CONFIDENTIAL REPORT ONLY FOR COMPANY USE


DR. MAHINATH MISHRA
M.B.B.S., C.I.H.
Reg. No.- G-16014
Family Physician & Industrial
Health Consultant

BHARUCH : 2nd Floor, Yash Complex,
Opp. INOX Cinema, Zadeshwar Rd., Bharuch.
Ph : 02642-227771/227882 Mo : +91 9099227882

RAHIYAD : Bhargu Complex,
Ground Floor, Rahiyad Chokdi,
Bharuch-392130 Mo : 9327703283

VILAYAT : Shop No.16, Sky View Shopping Centre,
Opp. Birla Grasim, Vilayat Chokdi, Derol Road,
Argama, Ta. Vagar, Dist. Bharuch. Mo : +91 9099227882



IN VITRO
SPECIALITY LABORATORY

A Unit of IN VITRO Speciality Lab Pvt. Ltd.

Serving for better health



TEST REPORT

Reg. No : 2212100394 Reg. Date : 05-Dec-2022 00:00 Collected On : 05-Dec-2022 19:18
Name : PATEL USMANGANI H. Report Date : 06-Dec-2022
Age/Sex : 23 Years / Male Dispatch At :
Ref. By : Tele No:
Location : AMAX MEDICAL CENTER @BHARUCH DOB:

Parameter	Result	Unit	Reference Interval
*COMPLETE BLOOD COUNT (CBC)			
SPECIMEN: EDTA BLOOD			
Hemoglobin (SLS method)	13.9	g/dL	13.0 - 17.0
*Hematocrit (Electrical Impedance)	47.3	%	40 - 54
RBC Count (Electrical Impedance)	5.42	million/cmm	4.5 - 5.5
WBC Count (Flowcytometry)	7400	/cmm	4000 - 10000
*Platelet Count (Electrical Impedance)	568000	/cmm	150000 - 410000
MCV (Calculated)	87.3	fL	83 - 101
MCH (Calculated)	25.6	Pg	27 - 32
MCHC (Calculated)	29.4	%	31.5 - 34.5
RDW (Calculated)	14.2	%	11.5 - 14.5
DIFFERENTIAL WBC COUNT (Manual By Microscopy)			
Neutrophils (%)	49	%	38 - 70
Lymphocytes (%)	46	%	20 - 45
Monocytes (%)	04	%	2 - 8
Eosinophils (%)	01	%	1 - 4
Basophils (%)	00	%	0 - 1
Platelets	Platelets are adequate with normal morphology.		
Parasites	Malarial parasite is not detected.		
*ESR (After 1 hour)	06	mm/hr	0 - 14
Modified Westergren Method			

----- End Of Report -----

This is an electronically authenticated report.

* Denotes Test not in NABL Scope.

Approved On : 06-Dec-2022 11:14

Page 1 of 7

Generated On : 10-Dec-2022 19:15

Test done from collected sample

Approved by: DR. VIPUL PATEL M.D
(Pathologist)
Reg No :- G - 8725

* The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.

205 - 210 , 2nd Floor, Golden Triangle, Near Sardar Patel Stadium, Navrangpura, AHMEDABAD - 380 009

T: 079 48004474 | M: 9537485100, 9537485200 | e: invitrolaboratorys@gmail.com



TEST REPORT

Reg. No : 2212100394 Reg. Date : 05-Dec-2022 00:00 Collected On : 05-Dec-2022 19:18
Name : PATEL USMANGANI H Report Date : 06-Dec-2022
Age/Sex: 23 Years / Male Dispatch At :
Ref. By : Tele No:
Location : AMAX MEDICAL CENTER @BHARUCH DOB:

Parameter	Result	Unit	Biological Reference Interval
-----------	--------	------	-------------------------------

*RANDOM PLASMA GLUCOSE

Specimen: Flouride plasma

*Random Blood Sugar (RBS) <i>Glucose Oxidase-Peroxidase</i>	75	mg/dL	70 - 140
--	----	-------	----------

Urine Glucose - R	Nil	gm/dl	
-------------------	-----	-------	--

Urine Acetone - R	Nil		
-------------------	-----	--	--

Criteria for the diagnosis of diabetes1. HbA1c \geq 6.5 *

Or

2. Fasting plasma glucose >126 gm/dL. Fasting is defined as no caloric intake at least for 8 hrs.

Or

3. Two hour plasma glucose \geq 200mg/dL during an oral glucose tolerance test by using a glucose load containing equivalent of 75 gm anhydrous glucose dissolved in water.

Or

4. In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose \geq 200 mg/dL.

*In the absence of unequivocal hyperglycemia, criteria 1-3 should be confirmed by repeat testing.

American diabetes association. Standards of medical care in diabetes 2011. Diabetes care 2011;34:S11.

ALANINE AMINOTRANSFERASE

*SGPT <i>UV with P5P</i>	25	U/L	16 - 63
-----------------------------	----	-----	---------

ASPARTATE AMINOTRANSFERASE

*SGOT <i>Siemens Dade Standard Non IFCC Correlated</i>	22	U/L	15 - 37
---	----	-----	---------

GAMMA GLUTAMYL TRANSFERASE

*GGT	24	U/L	15 - 85
------	----	-----	---------

ALKALINE PHOSPHATASE

*Alkaline Phosphatase <i>P-nitrophenyl phosphatase-AMP Buffer</i>	83	U/L	46 - 116
--	----	-----	----------

*Total Bilirubin <i>Diazo with sulphanilic acid</i>	0.74	mg/dL	0.2 - 1.0
--	------	-------	-----------

Conjugated Bilirubin <i>Diazo with sulphanilic acid</i>	0.1	mg/dL	0.0 - 0.3
--	-----	-------	-----------

Unconjugated Bilirubin <i>Calculated</i>	0.64	mg/dL	0.0 - 1.1
---	------	-------	-----------

*Total Protein <i>Biuret Reagent Blank</i>	7.4	g/dL	6.4 - 8.2
---	-----	------	-----------

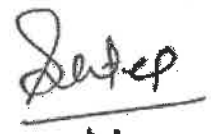
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Page 2 of 7

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Approved by: DR. VIPUL PATEL M.D
(Pathologist)
Reg No :- G - 8725

Test done from collected sample

* The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.

205 - 210 , 2nd Floor, Golden Triangle, Near Sardar Patel Stadium, Navrangpura, AHMEDABAD - 380 009

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TEST REPORT

Reg. No : 2212100394 Reg. Date : 05-Dec-2022 00:00
Name : PATEL USMANGANI H.
Age/Sex: 23 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 05-Dec-2022 19:18
Report Date : 06-Dec-2022
Dispatch At :
Tele No:
DOB:

Parameter	Result	Unit	Biological Reference Interval
*Albumin <i>By Bromocresol Purple</i>	4.1	g/dL	3.4 - 5.0
Globulin <i>Calculated</i>	3.30	g/dL	2.3 - 3.5
A/G Ratio <i>Calculated</i>	1.24		0.8 - 2.0

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(Pathologist)
Reg No :- G - 8725

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TEST REPORT

Reg. No : 2212100394 Reg. Date : 05-Dec-2022 00:00
Name : PATEL USMANGANI H.
Age/Sex: 23 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 05-Dec-2022 19:18
Report Date : 06-Dec-2022
Dispatch At :
Tele No:
DOB:

Parameter	Result	Unit	Biological Reference Interval
-----------	--------	------	-------------------------------

*HEMOGLOBIN A1 C ESTIMATION

Specimen: Blood EDTA

Hb A1C <i>HPLC method.</i>	6.1	% of Total Hb	Non-diabetic Level : <5.6 % Pre-diabetes : 5.7-6.4% Diabetes >=6.5%
-------------------------------	-----	---------------	---

Diabetes control criteria:
6-7% = Near Normal glycemia
7-8% : Good Control
>8% : Action Suggested

Mean Blood Glucose <i>Calculated</i>	128.37	mg/dL
---	--------	-------

- * High risk of developing long term complication such as retinopathy, nephropathy, neuropathy, cardiopathy, etc.
- * Some danger of hypoglycemic reaction in Type I diabetics.
- * Some glucose intolerant individuals and "subclinical" diabetics may demonstrate HbA1c levels in this area.

EXPLANATION :-

- *Total haemoglobin A1 c is continuously synthesised in the red blood cell through its 120 days life span. The concentration of HbA1c in the cell reflects the average blood glucose concentration it encounters.
- *The level of HbA1c increases proportionately in patients with uncontrolled diabetes. It reflects the average blood glucose concentration over an extended time period and remains unaffected by short-term fluctuations in blood glucose levels.
- *The measurement of HbA1c can serve as a convenient test for evaluating the adequacy of diabetic control and in preventing various diabetic complications. Because the average half life of a red blood cell is sixty days, HbA1c has been accepted as a measurement which reflects the mean daily blood glucose concentration, better than fasting blood glucose determination, and the degree of carbohydrate imbalance over the preceding two months.
- *It may also provide a better index of control of the diabetic patient without resorting to glucose loading procedures.

HbA1c assay Interferences:

- *Erroneous values might be obtained from samples with abnormally elevated quantities of other Haemoglobins as a result of either their simultaneous elution with HbA1c(HbF) or differences in their glycation from that of HbA(HbS)

----- End Of Report -----

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TEST REPORT

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Name : PATEL USMANGANI H.
Age/Sex: 23 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On :05-Dec-2022 19:18
Report Date : 06-Dec-2022
Dispatch At :
Tele No:
DOB:

Parameter	Result	Unit	Biological Reference Interval
-----------	--------	------	-------------------------------

CREATININE

*Serum Creatinine <i>Jaffe- Kinetic</i>	0.96	mg/dL	0.7 - 1.30
*Cholesterol <i>Cholestrol Oxidase Esterase , peroxidase</i>	148	mg/dL	Desirable : < 200.0 Borderline High : 200-239 High : > 240.0
*Triglyceride <i>Lipase/GPO-PAP no correction</i>	243	mg/dL	Normal : < 150.0 Borderline : 150-199 High : 200-499 Very High : > 500.0
VLDL <i>Calculated</i>	48.60	mg/dL	15 - 35
LDL CHOLESTEROL	61.40	mg/dL	Optimal : < 100.0 Near / above optimal : 100-129 Borderline High : 130-159 High : 160-189 Very High : >190.0
*HDL Cholesterol <i>Direct HDL PEGME</i>	38	mg/dL	Low : < 40 High : > 60

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Name : PATEL USMANGANI H.
Age/Sex: 23 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On :05-Dec-2022 19:18
Report Date : 06-Dec-2022
Dispatch At :
Tele No:
DOB:

Parameter	Result	Unit	Biological Reference Interval
Cholesterol /HDL Ratio <i>Calculated</i>	3.89		0 - 5.0
LDL / HDL RATIO <i>Calculated</i>	1.62		0 - 3.5
Total Lipids <i>Calculated</i>	742.00		400 - 1000

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Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 05-Dec-2022 19:18
Report Date : 06-Dec-2022
Dispatch At :
Tele No :
DOB:

Parameter	Result	Reference Interval
-----------	--------	--------------------

***URINE ROUTINE EXAMINATION**

PHYSICAL EXAMINATION

Quantity	20 cc
Colour	Pale Yellow
Clarity	Clear

CHEMICAL EXAMINATION (BY REFLECTANCE PHOTOMETRIC METHOD)

pH	7.0	4.6 - 8.0
Sp. Gravity	1.020	1.002 - 1.03
Protein	Nil	
Glucose	Nil	
Ketone Bodies	Nil	
Urobilinogen	Nil	
Bilirubin	Nil	
Nitrite	Nil	
Leucocytes	Nil	
Blood	Nil	

MICROSCOPIC EXAMINATION (MANUAL BY MICROSCOPY)

Leucocytes (Pus Cells)	1 - 5/hpf
Erythrocytes (Red Cells)	Nil
Epithelial Cells	1-2/hpf
Amorphous Material	Nil
Casts	Nil
Crystals	Nil
Bacteria	Nil
Monilia	Nil
T. Vaginalis	Nil
Spermatozoa	Nil

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(Pathologist)
Reg No :- G - 8725

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ID : 36 23Years Male cm kg / mmHg Race:Unknown Room No.: Department:

Exam.Room:

Medication:

HR : 97 bpm

P : 96 ms

PR : 143 ms

QRS : 74 ms

QT/QTc : 318/404 ms

P/QRS/T : 52/32/43 °

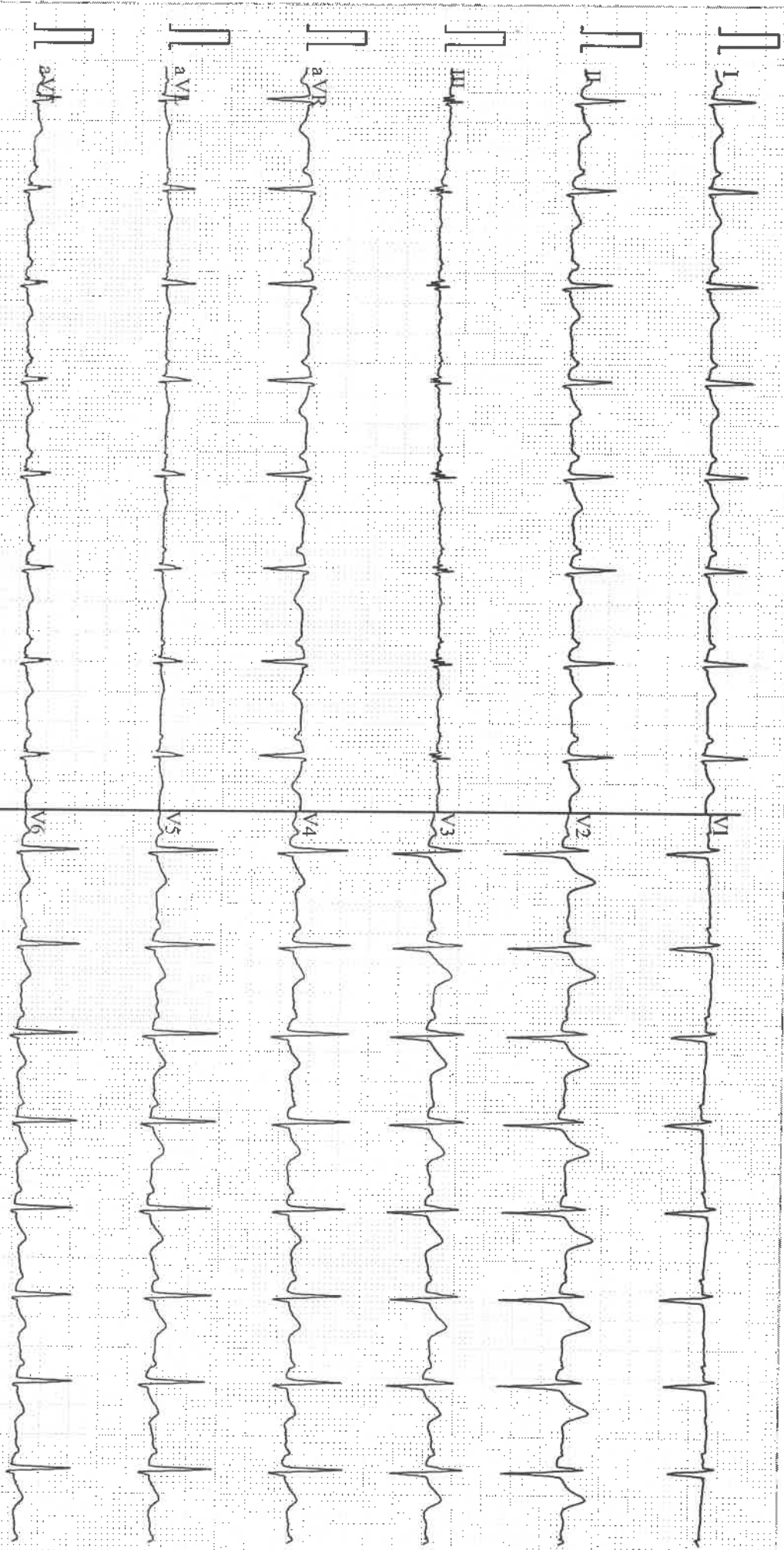
RV5/SVI : 1.052/0.650 mV

Diagnosis Information:

Sinus Rhythm

Normal ECG

Technician :
Ref-Phys. :
Report Confirmed by:



amax MEDICAL CENTER

1st Floor, Bhurugu Complex, Rahiyad Chokdi, Ta-Vagra, Dist-Bharuch, Gujrat , CONT NO.:-7041274129

AUDIOGRAM

Employee Name PATEL USMANGANI H.

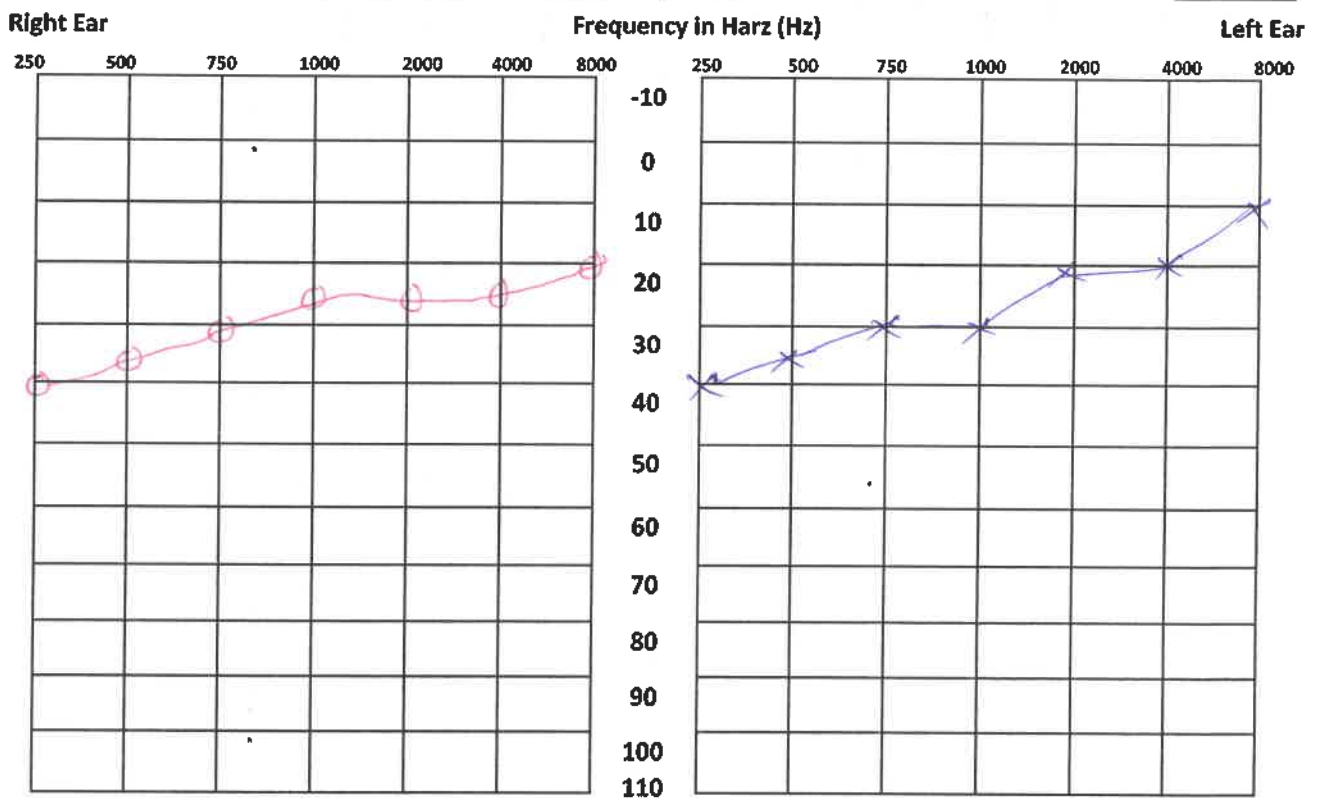
Age: 23 MALE

Employee Code 11523

Sr No. 36

Company Name GRASSIM CHEMICAL DIVISION, VILAYAT

Date: 05.12.2022



Air Conduction

X=Left Ear

O=Right Ear

Bone Conduction

>=Left Ear

<=Right Ear

Remark:

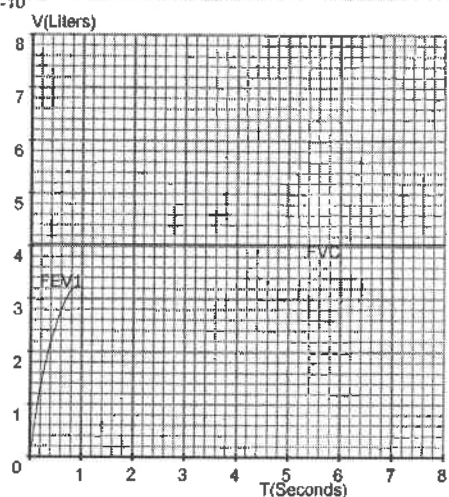
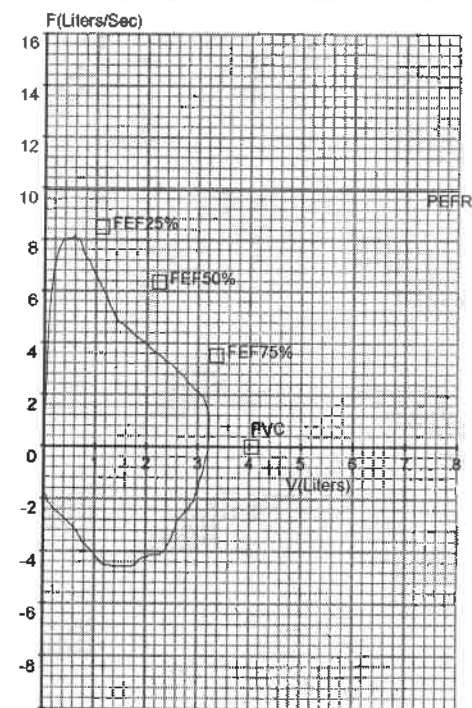
B/L WITH NORMAL LIMIT


DR. MAHINATH MISHRA
M.B.B.S., C.I.H.
Reg. No - G-16014
Sign & Stamp
Family Physician & Industrial
Health Consultant

GRCD-36 - PATEL USMANGANI H.
23 Years / Male / Ht 177 Cms / 77 Kgs / Non-Smoker

FVC TEST
Date: 05-12-2022 (T1)

Pred Eqn : CLARITY Eth.Corr : 100 Temp : 0°C
Ref By : NONE



- Pre Medication Report :

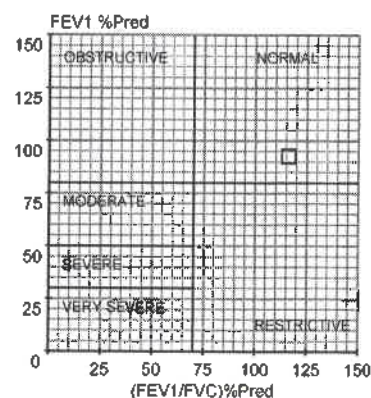
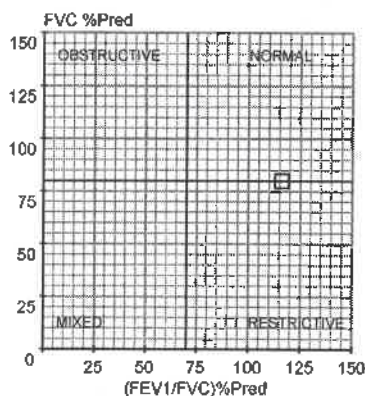
Spirometry shows Mild Restriction as FVC% < 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:

COPD Severity within Normal range

- Doctor's Comments :

Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC [L]	4.04	3.22	80	--	--	--
FEV1 [L]	3.47	3.21	93	--	--	--
FEV.5 [L]	--	2.55	--	--	--	--
FEV3 [L]	3.92	--	--	--	--	--
FEV6 [L]	--	--	--	--	--	--
PEFR [L/s]	9.94	8.11	82	--	--	--
FEF25-75 [L/s]	4.84	4.88	101	--	--	--
FEF75-85 [L/s]	--	3.02	--	--	--	--
FEF.2-1.2 [L/s]	8.40	7.05	84	--	--	--
FEF25% [L/s]	8.47	8.14	96	--	--	--
FEF50% [L/s]	6.31	5.13	81	--	--	--
FEF75% [L/s]	3.52	3.52	100	--	--	--
FEV.5/FVC [%]	--	79.15	--	--	--	--
FEV1/FVC [%]	85.86	99.52	116	--	--	--
FEV3/FVC [%]	97.00	--	--	--	--	--
FEV6/FVC [%]	--	--	--	--	--	--
FEV1/FEV6 [%]	--	--	--	--	--	--
FET [S]	--	0.94	--	--	--	--
ExpTime [S]	--	0.08	--	--	--	--
LungAge [Y]	23.00	25.00	109	--	--	--
FIVC [L]	--	3.34	--	--	--	--
PIFR [L/s]	--	4.63	--	--	--	--
FIF25% [L/s]	--	8.32	--	--	--	--
FIF50% [L/s]	--	5.34	--	--	--	--
FIF75% [L/s]	--	3.84	--	--	--	--
FIV.5 [L]	--	0.52	--	--	--	--
FIV1 [L]	--	2.55	--	--	--	--
FIV3 [L]	--	--	--	--	--	--
FIV.5/FIVC [%]	--	15.70	--	--	--	--
FIV1/FIVC [%]	--	76.36	--	--	--	--
FIV3/FIVC [%]	--	--	--	--	--	--



Dr. Mahinath Mishra
DR. MAHINATH MISHRA
M.B.B.S., C.I.H.
Reg. No. 10018
Family Physician & Industrial Health Consultant


EMPLOYEE DETAILS				SR NO. 316	
EMPLOYEE NAME	RAKESH K. RANA		AGE/GENDER	37	MALE
FATHER'S NAME	KISHORBHAI C. RANA		DATE OF BIRTH	30.08.1984	
DESIGNATION	SR. TECHNICIAN ASSOCIATE		DATE	07.12.2022	
DEPARTMENT	INSTRUMENT		EMP. CODE	10878	
COMPANY NAME	GRASSIM CHEMICAL DIVISION, VILAYAT				
GENERAL EXAMINATION					
WEIGHT	90	Kg	HEIGHT	168	cm
BP	130/80	mm of Hg	PULSE	94	/min
BMI	31.89	Kg/m ²	BLOOD GROUP	***	
SPO2	99	%	TEMPERATURE	NORMAL	
MEDICAL HISTORY					
Past History	NIL SIGNIFICANT		Personal History	NIL SIGNIFICANT	
Family History	FATHER - HTN		Addiction	NIL SIGNIFICANT	
Allergic History	NIL SIGNIFICANT		Occupational History	NIL SIGNIFICANT	
Present Complaints	NO SPECIFIC HISTORY OF FEVER OR COUGH		Symptoms of COVID-19	NAD	
VISION TESTING					
ACURITY OF VISION:	RT EYE		LT EYE		COLOUR VISION
DISTANCE	6/6		6/6		ACCEPTABLE
NEAR	N/6		N/6		
SYSTEMETIC EXAMINATION					
CVS	S1, S2 - NORMAL, NO MURMUR		ENT Ex: (EAR, NOSE, THROAT)		NAD
R/S	CLEAR WITH EQUAL AIR ENTRY		SKIN Ex & Nail Ex		NAD
ABDOMEN	SOFT, NON TENDER		Musculoskeletal System		NAD
CNS	CONCIOUS & ORIENTED		Genitourinary System		NAD
IDENTIFICATION MARK	BIRTH MARK ON RT SHOULDER				

ADVICE
REMARK
ECG
X-RAY
SPIROMETARY
AUDIOMETARY
FITNESS STATUS

REGULAR EXERCISE & DIET
OBESE CLASS-I
NORMAL

WITH NORMAL LIMIT
B/L WITH NORMAL LIMIT
FIT

NOTE : THIS REPORT IS NOT FOR LEGEL IMPLICATION AND PURPOSE, CONFIDENTIAL REPORT ONLY FOR COMPANY USE


DR. MAHINASH MISHRA
M.B.B.S., C.I.H.
Reg. No.- G-16014
Family Physician & Industrial
Health Consultant

BHARUCH : 2nd Floor, Yash Complex,
Opp. INOX Cinema, Zadeshwar Rd., Bharuch.
Ph : 02642-227771/227882 Mo : +91 9099227882

RAHIYAD : Bhrgu Complex,
Ground Floor, Rahiyad Chokdi,
Bharuch-392130 Mo : 9327703283

VILAYAT : Shop No.16, Sky View Shopping Centre,
Opp. Birla Grasim, Vilayat Chokdi, Derol Road,
Argama, Ta. Vagar, Dist. Bharuch. Mo : +91 9099227882


TEST REPORT

Reg. No : 2212100870 Reg. Date : 07-Dec-2022 00:00
 Name : RAKESH K RANA
 Age/Sex : 37 Years / Male
 Ref. By :
 Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
 Report Date : 08-Dec-2022
 Dispatch At :
 Tele No :
 DOB :

Parameter	Result	Unit	Reference Interval
-----------	--------	------	--------------------

***COMPLETE BLOOD COUNT (CBC)**

SPECIMEN: EDTA BLOOD

Hemoglobin (SLS method)	15.2	g/dL	13.0 - 17.0
*Hematocrit (Electrical Impedance)	48.7	%	40 - 54
RBC Count (Electrical Impedance)	5.04	million/cmm	4.5 - 5.5
WBC Count (Flowcytometry)	9810	/cmm	4000 - 10000
*Platelet Count (Electrical Impedance)	369000	/cmm	150000 - 410000
MCV (Calculated)	96.6	fL	83 - 101
MCH (Calculated)	30.2	Pg	27 - 32
MCHC (Calculated)	31.2	%	31.5 - 34.5
RDW (Calculated)	14.4	%	11.5 - 14.5

DIFFERENTIAL WBC COUNT (Manual By Microscopy)

Neutrophils (%)	66	%	38 - 70
Lymphocytes (%)	30	%	20 - 45
Monocytes (%)	02	%	2 - 8
Eosinophils (%)	02	%	1 - 4
Basophils (%)	00	%	0 - 1

PERIPHERAL SMEAR STUDY

RBC Morphology
 WBC Morphology
 Platelets
 Parasites

RBCs are Normocytic and Normochromic.
 Total WBC and differential count is within normal limit.
 Platelets are adequate with normal morphology.
 Malarial parasite is not detected.

*ESR (After 1 hour)	02	mm/hr	0 - 14
---------------------	----	-------	--------

Modified Westergren Method

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TEST REPORT

Reg. No : 2212100870 Reg. Date : 07-Dec-2022 00:00
Name : RAKESH K RANA
Age/Sex: 37 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
Report Date : 08-Dec-2022
Dispatch At :
Tele No :
DOB :

Parameter	Result	Unit	Biological Reference Interval
*RANDOM PLASMA GLUCOSE			
Specimen: Flouride plasma			
*Random Blood Sugar (RBS) <i>Glucose Oxidase-Peroxidase</i>	109	mg/dL	70 - 140
Urine Glucose - R	Nil	gm/dl	
Urine Acetone - R	Nil		
Criteria for the diagnosis of diabetes 1. HbA1c ≥ 6.5 * Or 2. Fasting plasma glucose ≥ 126 gm/dL. Fasting is defined as no caloric intake at least for 8 hrs. Or 3. Two hour plasma glucose ≥ 200 mg/dL during an oral glucose tolerance test by using a glucose load containing equivalent of 75 gm anhydrous glucose dissolved in water. Or 4. In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose ≥ 200 mg/dL. *In the absence of unequivocal hyperglycemia, criteria 1-3 should be confirmed by repeat testing. American diabetes association. Standards of medical care in diabetes 2011. Diabetes care 2011;34:S11.			
ALANINE AMINOTRANSFERASE			
*SGPT <i>UV with P5P</i>	29	U/L	16 - 63
ASPARTATE AMINOTRANSFERASE			
*SGOT <i>Siemens Dade Standard Non IFCC Correlated</i>	19	U/L	15 - 37
GAMMA GLUTAMYL TRANSFERASE			
*GGT	29	U/L	15 - 85
ALKALINE PHOSPHATASE			
*Alkaline Phosphatase <i>P-nitrophenyl phosphatase-AMP Buffer</i>	96	U/L	46 - 116
*Total Bilirubin <i>Diazo with sulphanilic acid</i>	0.21	mg/dL	0.2 - 1.0
Conjugated Bilirubin <i>Diazo with sulphanilic acid</i>	0.1	mg/dL	0.0 - 0.3
Unconjugated Bilirubin <i>Calculated</i>	0.11	mg/dL	0.0 - 1.1
*Total Protein <i>Biuret Reagent Blank</i>	7.3	g/dL	6.4 - 8.2

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Signature

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(Pathologist)

Reg No : G-8725

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Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
Report Date : 08-Dec-2022
Dispatch At :
Tele No :
DOB :

Parameter	Result	Unit	Biological Reference Interval
*Albumin <i>By Bromocresol Purple</i>	3.9	g/dL	3.4 - 5.0
Globulin <i>Calculated</i>	3.40	g/dL	2.3 - 3.5
A/G Ratio <i>Calculated</i>	1.15		0.8 - 2.0

----- End Of Report -----

This is an electronically authenticated report.

* Denotes Test not in NABL Scope.

Approved On : 08-Dec-2022 11:11

Generated On : 12-Dec-2022 11:12

Page 3 of 7

Approved by: DR. VIPUL PATEL M.D.
(Pathologist)

Reg No : G - 8725

*The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.

205 - 210, 2nd Floor, Golden Triangle, Near Sardar Patel Stadium, Navrangpura, AHMEDABAD - 380 009.

Test done from collected sample

T : 079 48004474 | M : 9537485100, 9537485200 | e : invitrolaboratory.s@gmail.com



TEST REPORT

Reg. No : 2212100870 Reg. Date : 07-Dec-2022 00:00
Name : RAKESH K RANA
Age/Sex: 37 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
Report Date : 08-Dec-2022
Dispatch At :
Tele No :
DOB :

Parameter	Result	Unit	Biological Reference Interval
-----------	--------	------	-------------------------------

*HEMOGLOBIN A1 C ESTIMATION

Specimen: Blood EDTA

Hb A1C <i>HPLC method.</i>	5.8	% of Total Hb	Non-diabetic Level : <5.6 % Pre-diabetes : 5.7-6.4% Diabetes >=6.5%
-------------------------------	-----	---------------	---

Diabetes control criteria:
6-7% = Near Normal glycemia
7-8% : Good Control
>8% : Action Suggested

Mean Blood Glucose
Calculated

119.76

mg/dL

- * High risk of developing long term complication such as retinopathy, nephropathy, neuropathy, cardiopathy, etc.
- * Some danger of hypoglycemic reaction in Type I diabetics.
- * Some glucose intolerant individuals and "subclinical" diabetics may demonstrate HbA1c levels in this area.

EXPLANATION :-

- *Total haemoglobin A1 c is continuously synthesised in the red blood cell through its 120 days life span. The concentration of HBA1c in the cell reflects the average blood glucose concentration it encounters.
- *The level of HBA1c increases proportionately in patients with uncontrolled diabetes. It reflects the average blood glucose concentration over an extended time period and remains unaffected by short-term fluctuations in blood glucose levels.
- *The measurement of HbA1c can serve as a convenient test for evaluating the adequacy of diabetic control and in preventing various diabetic complications. Because the average half life of a red blood cell is sixty days, HbA1c has been accepted as a measurement which effects the mean daily blood glucose concentration, better than fasting blood glucose determination, and the degree of carbohydrate imbalance over the preceding two months.
- *It may also provide a better index of control of the diabetic patient without resorting to glucose loading procedures.

HbA1c assay Interferences:

- *Erroneous values might be obtained from samples with abnormally elevated quantities of other Haemoglobins as a result of either their simultaneous elution with HbA1c(HbF) or differences in their glycation from that of HbA(HbS)

----- End Of Report -----

This is an electronically authenticated report.

* Denotes Test not in NABL Scope.

Approved On : 08-Dec-2022 19:53

Generated On : 12-Dec-2022 11:12

Page 4 of 7

Signature

Approved by: DR. VIPUL PATEL M.D
(Pathologist)

Reg No :- G - 8725

*The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.

205 - 210, 2nd Floor, Golden Triangle, Near Sardar Patel Stadium, Navrangpura, AHMEDABAD - 380 009.

T : 079 48004474 | M : 9537485100, 9537485200 | e : invitrolaboratory.s@gmail.com



TEST REPORT

Reg. No : 2212100870 Reg. Date : 07-Dec-2022 00:00
Name : RAKESH K RANA
Age/Sex: 37 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
Report Date : 08-Dec-2022
Dispatch At :
Tele No :
DOB :

Parameter	Result	Unit	Biological Reference Interval
-----------	--------	------	-------------------------------

CREATININE

*Serum Creatinine <i>Jaffe- Kinetic</i>	0.74	mg/dL	0.7 - 1.30
*Cholesterol <i>Cholestrol Oxidase Esterase , peroxidase</i>	212	mg/dL	Desirable : < 200.0 Borderline High : 200-239 High : > 240.0
*Triglyceride <i>Lipase/GPO-PAP no correction</i>	239	mg/dL	Normal : < 150.0 Borderline : 150-199 High : 200-499 Very High : > 500.0
VLDL <i>Calculated</i>	47.80	mg/dL	15 - 35
LDL CHOLESTEROL	119.20	mg/dL	Optimal : < 100.0 Near / above optimal : 100-129 Borderline High : 130-159 High : 160-189 Very High : >190.0
*HDL Cholesterol <i>Direct HDL PEGME</i>	45	mg/dL	Low : < 40 High : > 60

This is an electronically authenticated report.

* Denotes Test not in NABL Scope.

Approved On : 08-Dec-2022 19:55

Generated On : 12-Dec-2022 11:12

Page 5 of 7

Approved by: DR. VIPUL PATEL M.D.
(Pathologist)

Reg No :- G - 8725

*The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.



TEST REPORT

Reg. No : 2212100870 Reg. Date : 07-Dec-2022 00:00
Name : RAKESH K RANA
Age/Sex: 37 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
Report Date : 08-Dec-2022
Dispatch At :
Tele No :
DOB :

Parameter	Result	Unit	Biological Reference Interval
Cholesterol /HDL Ratio Calculated	4.71		0 - 5.0
LDL / HDL RATIO Calculated	2.65		0 - 3.5
Total Lipids Calculated	862.00		400 - 1000

----- End Of Report -----

This is an electronically authenticated report.

* Denotes Test not in NABL Scope.

Approved On : 08-Dec-2022 19:55

Generated On : 12-Dec-2022 11:12

Page 6 of 7

Approved by: DR. VIPUL PATEL M.D.
(Pathologist)
Reg No :- G - 8725

*The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.



TEST REPORT

Reg. No : 2212100870 Reg. Date : 07-Dec-2022 00:00
Name : RAKESH K RANA
Age/Sex : 37 Years / Male
Ref. By :
Location : AMAX MEDICAL CENTER @BHARUCH

Collected On : 07-Dec-2022 20:46
Report Date : 08-Dec-2022
Dispatch At :
Tele No :
DOB :

Parameter	Result	Reference Interval
-----------	--------	--------------------

*URINE ROUTINE EXAMINATION

PHYSICAL EXAMINATION

Quantity	10 cc
Colour	Pale Yellow
Clarity	Clear

CHEMICAL EXAMINATION (BY REFLECTANCE PHOTOMETRIC METHOD)

pH	7.0	4.6 - 8.0
Sp. Gravity	1.030	1.002 - 1.03
Protein	Nil	
Glucose	Nil	
Ketone Bodies	Nil	
Urobilinogen	Nil	
Bilirubin	Nil	
Nitrite	Nil	
Leucocytes	Nil	
Blood	Nil	

MICROSCOPIC EXAMINATION (MANUAL BY MICROSCOPY)

Leucocytes (Pus Cells)	1 - 5/hpf
Erythrocytes (Red Cells)	Nil
Epithelial Cells	2-3/hpf
Amorphous Material	Nil
Casts	Nil
Crystals	Nil
Bacteria	Nil
Monilia	Nil
T. Vaginalis	Nil
Spermatozoa	Nil

----- End Of Report -----

This is an electronically authenticated report.

* Denotes Test not in NABL Scope.

Approved On : 08-Dec-2022 16:18

Generated On : 12-Dec-2022 11:12

Test done from collected sample

Page 7 of 7

Approved by: DR. VIPUL PATEL M.D.
(Pathologist)

*The test results are subject to variation due to technical limitations and hence should be interpreted in correlation with clinical findings and other investigations.

AMAX MEDICAL CENTER ECG REPORT

ID : 316 37Years Male cm kg mmHg Race:Unknown Room No.:

Department: Exam.Room: Medication:

HR : 100 bpm Diagnosis Information:

P : 99 ms Sinus Rhythm

PR : 135 ms ***Normal ECG***

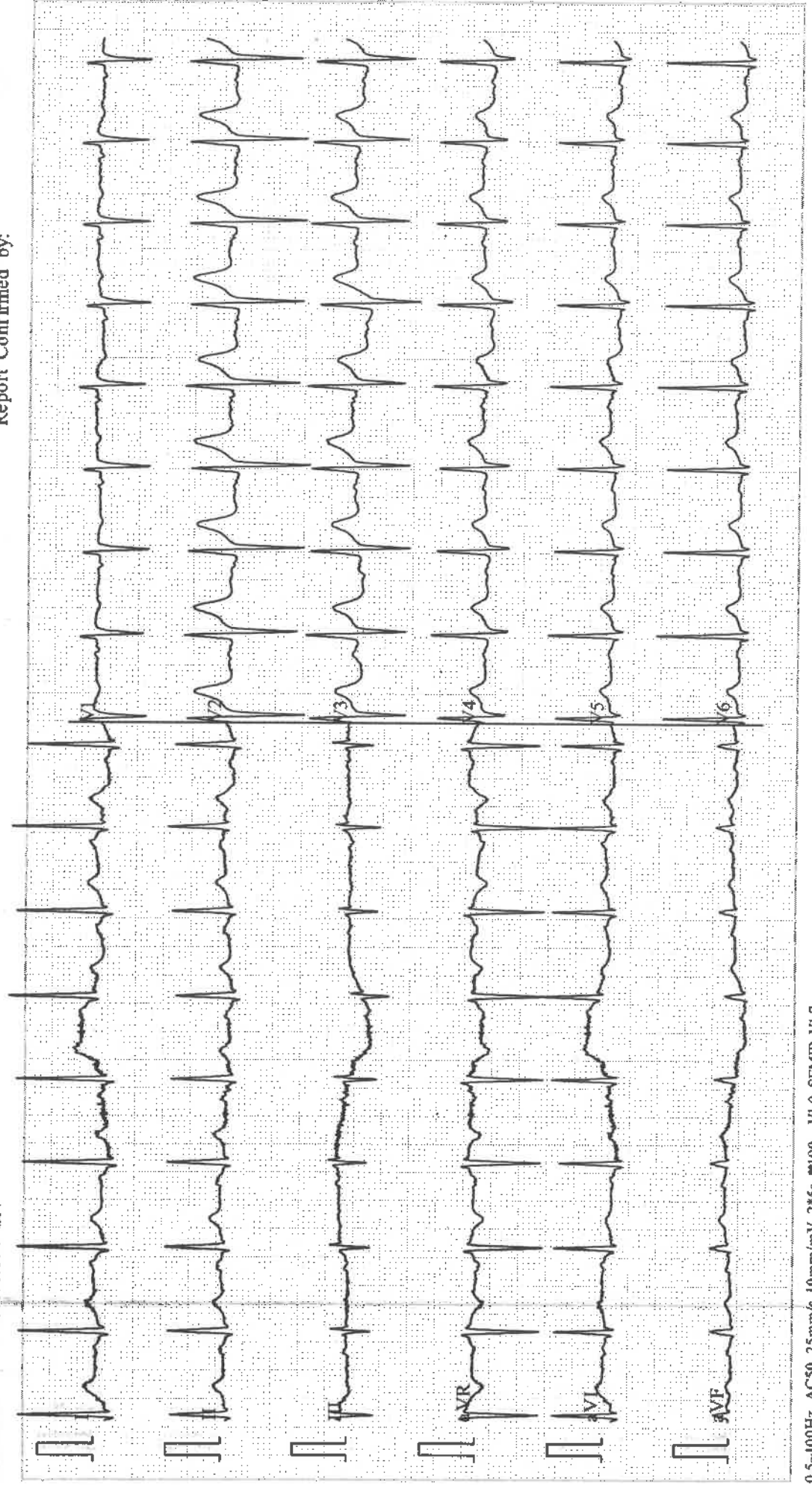
QRS : 89 ms

QT/QTc : 321/414 ms

P/QRS/T : 32/31/27 °

RV5/SV1 : 1.075/0.874 mV

Technician :
Ref-Phys. :
Report Confirmed by:



amax MEDICAL CENTER

1st Floor, Bhurugu Complex, Rahiyad Chokdi, Ta-Vagra, Dist-Bharuch, Gujrat , CONT NO.: -7041274129

AUDIOGRAM

Employee Name RAKESH K. RANA

Age: 37 MALE

Employee Code 10878

Sr No. 316

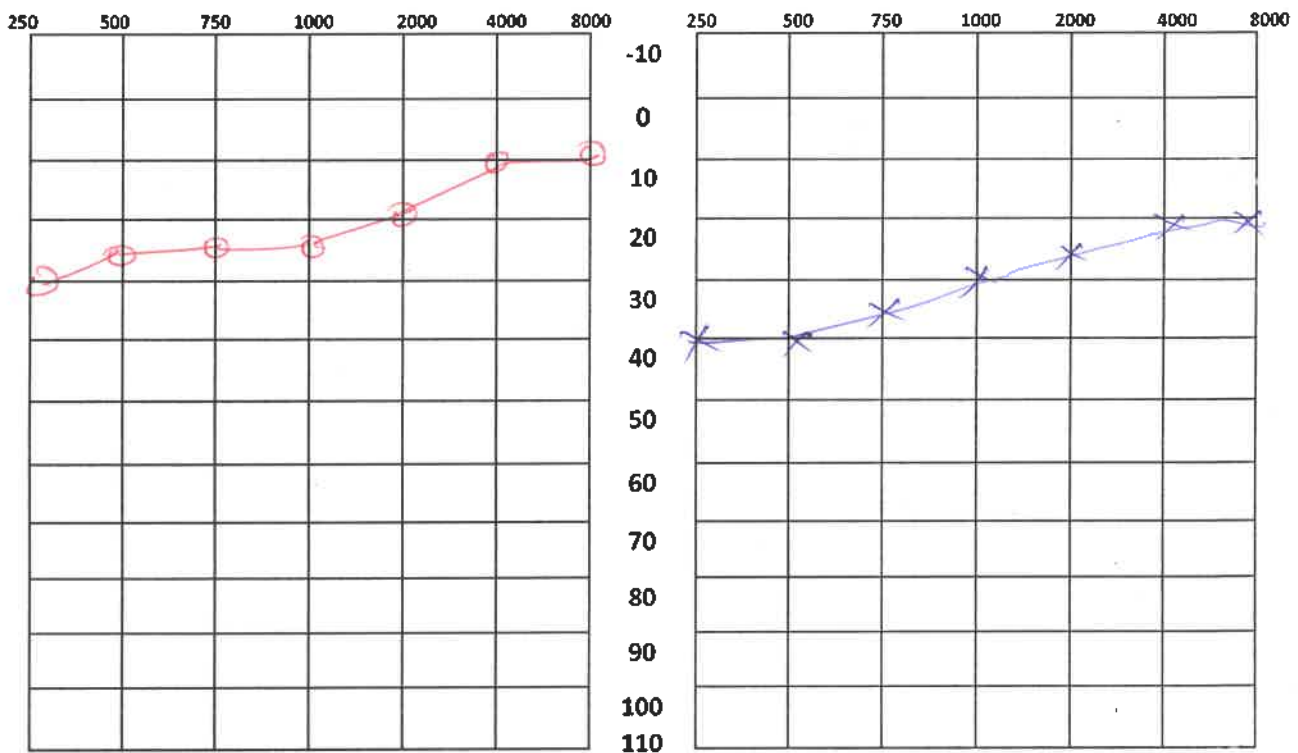
Company Name GRASSIM CHEMICAL DIVISION, VILAYAT

Date: 07.12.2022

Right Ear

Frequency in Harz (Hz)

Left Ear



Air Conduction

X=Left Ear

O=Right Ear

Bone Conduction

>=Left Ear

<=Right Ear

Remark:

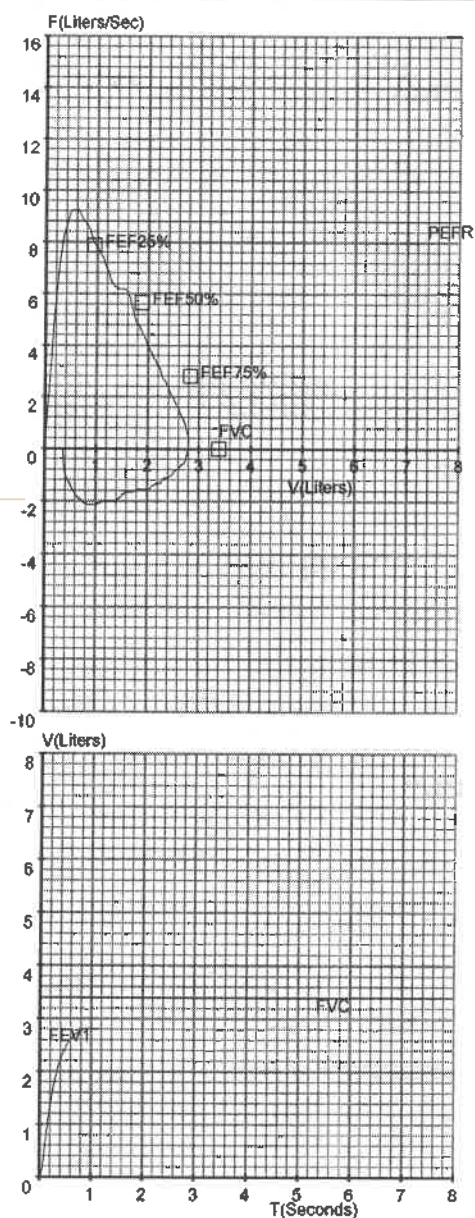
B/L WITH NORMAL LIMIT


DR. MAHINATH MISHRA
M.B.B.S., C.I.H.
Reg. No. - G-16014
Sign & Stamp
Family Physician & Industrial
Health Consultant

GRCD-316 - RAKESH K RANA
37 Years / Male / Ht 168 Cms /90 Kgs / Non-Smoker

FVC TEST
Date: 07-12-2022 (T1)

Pred Eqn : CLARITY Eth.Corr : 100 Temp : 0°C
Ref By : NONE

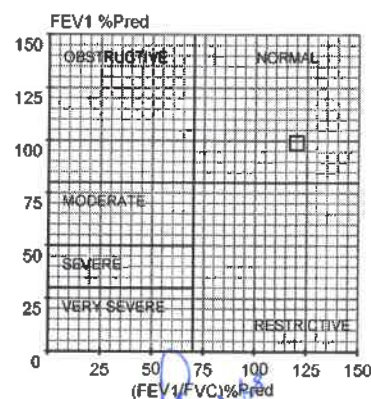
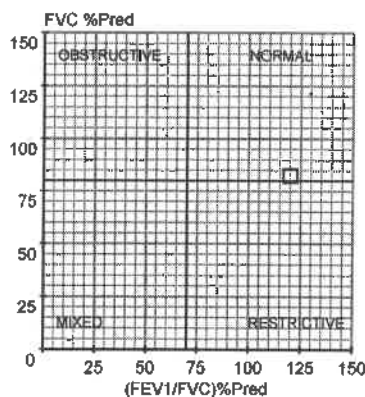


Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.39	2.80	82	--	--
FEV1	[L]	2.81	2.78	99	--	--
FEV.5	[L]	--	2.53	--	--	--
FEV3	[L]	3.29	--	--	--	--
FEV6	[L]	--	--	--	--	--
PEFR	[L/s]	8.81	9.26	105	--	--
FEF25-75	[L/s]	4.04	6.35	157	--	--
FEF75-85	[L/s]	--	3.10	--	--	--
FEF.2-1.2	[L/s]	6.99	7.99	114	--	--
FEF25%	[L/s]	7.87	10.10	128	--	--
FEF50%	[L/s]	5.66	7.04	124	--	--
FEF75%	[L/s]	2.82	3.76	133	--	--
FEV.5/FVC	[%]	--	90.64	--	--	--
FEV1/FVC	[%]	82.93	99.44	120	--	--
FEV3/FVC	[%]	97.00	--	--	--	--
FEV6/FVC	[%]	--	--	--	--	--
FEV1/FEV6	[%]	--	--	--	--	--
FET	[S]	--	1.13	--	--	--
ExpTime	[S]	--	0.09	--	--	--
LungAge	[Y]	37.00	37.00	100	--	--
FIVC	[L]	--	2.43	--	--	--
PIFR	[L/s]	--	2.15	--	--	--
FIF25%	[L/s]	--	10.43	--	--	--
FIF50%	[L/s]	--	8.42	--	--	--
FIF75%	[L/s]	--	6.48	--	--	--
FIV.5	[L]	--	0.06	--	--	--
FIV1	[L]	--	0.56	--	--	--
FIV3	[L]	--	--	--	--	--
FIV.5/FIVC	[%]	--	2.55	--	--	--
FIV1/FIVC	[%]	--	23.13	--	--	--
FIV3/FIVC	[%]	--	--	--	--	--

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

- Pre COPD Severity Report:
COPD Severity within Normal range

- Doctor's Comments :

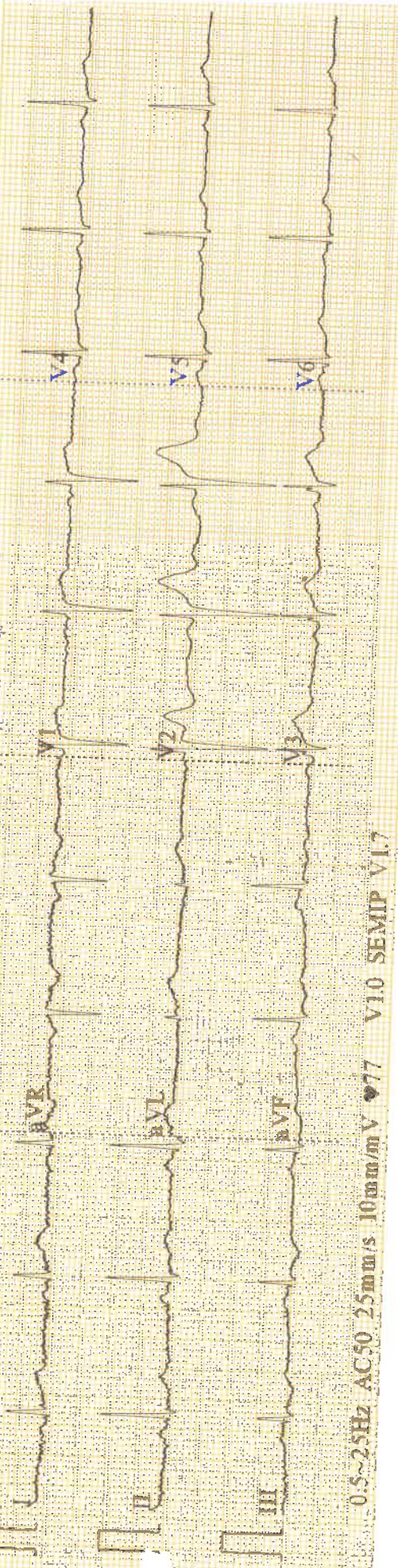


DR. MAHINATH MISHRA
M.B.B.S., C.I.H.
Reg. No.- G-16014
Family Physician & Industrial
Health Consultant

BPL

ID: 17159 27-03-2023 12:15:08

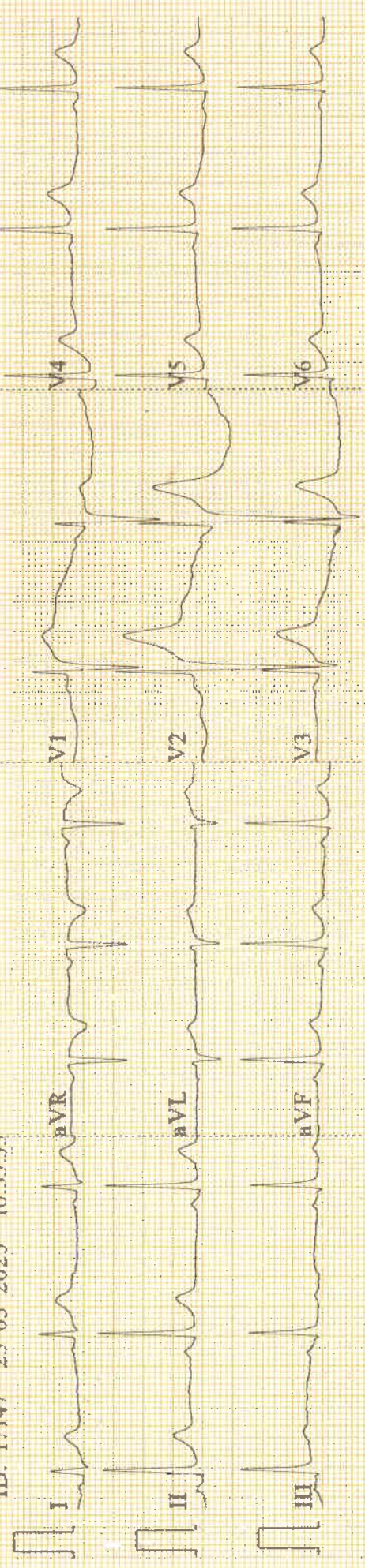
Fuleshwar



0.5~2.5Hz AC50 25mm/s 10mm/mV ♡77 V10 SEMIP V1.7

Birjhu Rønd.

ID: 17147 25-03-2023 10:35:35



0.5~2.5Hz AC50 25mm/s 10mm/mV ♡68 V10 SEMIP V1.7

CARDART

ID: 17159

Male

Years (/ /) mmHg
cm kg

Diagnosis Information:

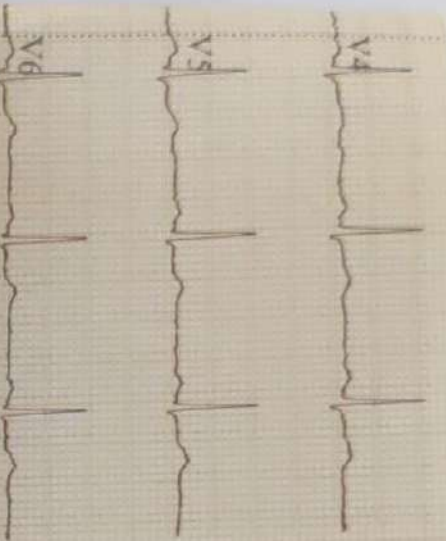
Sinus Rhythm
Normal ECG

Fulshueas

HR : 68 bpm
P : 111 ms
PR : 148 ms
QRS : 82 ms
QT/QTc : 393/420 ms
P/QRS/T : 48/44/-20 °
RV5/SV1 : 1.012/1.046 mV

CARDIART

Report Confirmed by:



BPL

ID: 17147

Male

Years (/ /) mmHg
cm kg

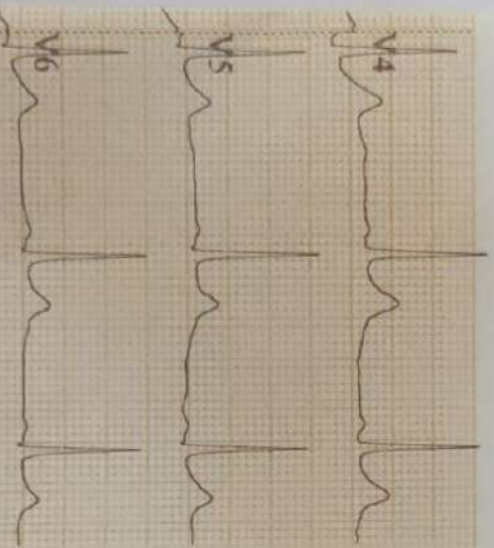
Diagnosis Information:

Sinus Arrhythmia
Normal ECG

B. J. Jhu

HR : 63 bpm
P : 94 ms
PR : 126 ms
QRS : 90 ms
QT/QTc : 360/369 ms
P/QRS/T : 67/72/46 °
RV5/SV1 : 1.516/1.167 mV

Report Confirmed by:



THE ENVIRONMENT MANAGEMENT SYSTEM ADEQUACY EFFICACY CERTIFICATE

Parul Institute of Technology, Department of Chemical Engineering is recognized by the GPCB, Gandhinagar under the Environmental Audit Scheme introduced by the Hon'ble High Court Gujarat, vide its Orders dtd. 20/12/96 & 13/3/97 and modified vide Order dtd. 16/9/99 as and Environmental Auditor for the purpose of the auditing, having carried out Environmental Audit of

- a) M/s. :Grasim Industries Ltd.
(Chemical Division)
- b) Located at :Plot No. 1,Vilayat GIDC Estate,
Taluko: Vagara: Dist: Bharuch - 394 120
- c) Manufacturing products as under :

No.	Products	Capacity (MT/Year)	Actual Production of CCA (MT/Year)
1.	Caustic Soda Lye	3,65,000	340936
2.	Hydrogen	1,02,200,000 Nm ³	17981387 Nm ³
3.	Liquid Chlorine/Sodium Hypochlorite /Hydrochloric Acid	3,28,500	316770
4.	Poly Aluminum Chloride	2,50,000	184001
5.	Chlorinated Paraffin Wax	70,000	41673
6.	Aluminum Chloride	25,000	18474
7.	Stable Bleaching Powder	61,000	24493
8.	Phosphoric Acid	35,000	11357
9.	Calcium Chloride	87,600	17414
10.	Power Generation	96 MW	606814MW
11.	Aluminum Chloro hydrate (Super Coagulant)	5000	2863
12.	Calcium Hypochlorite (High strength Bleaching Powder-HSBP)	24000	3466
13.	Methylene Chloride	54000	26552
14.	Chloroform		12969
15.	Carbon Tetra Chloride		1522

* 96 MW quantity is for per Day Quantity.

Having completed the Environmental Audit period on personal monitoring, and audit report, prepared as per the direction of Hon'ble High Court in Environmental

Audit Scheme, it is certified that the Environmental Management System (EMS) provided by this industry for the products manufactured and capacity as stated above is adequate and efficient to achieve the quality of effluents (Air + Wastewater + Solid Waste) as specified in Consent/Notifications by GPCB, Gandhinagar for the following quantity of waste generation.

- (a) Liquid effluent : 5884.5 m³/Day
 (b) Sewage : 356.8 m³/Day

Note: Total quantity of waste water discharge of the group companies (Cellulosic + Chemical + Epoxy division) shall not exceeds 19.4 MLD at any time

- (c) Solid Waste :

No.	Name of Hazardous/Solid Waste	Quantity
Hazardous Wastes		
1.	Chemical sludge from waste water treatment	40215 MT/Year
2.	Spent Carbon	40.33 MT/Year
3.	Used oil	101 KL/Year
4.	Spent ion exchange resin	1MT/Year
5.	Discarded Containers	2000 No./Year
	Discarded Bags/ Liners	25 MT/Year
6.	Incinerable Waste	142 MT/Year
7.	Spent Acid (HCl)	142500 MT/Year
8.	Spent Acid (Dilute Sulphuric Acid)	15500 MT/Year
9.	Bleaching Liquid (consists of 3% Hypo, 10% CaCl ₂ , 65% to 75% water)	60000 MT/Year
10.	Sodium Chloride (consists of 90% NaCl)	6000 MT/Year
11.	Residue/Sludge & Filter cake	6066 MT/Year
12.	Spent Catalyst	25 MT/Year
13.	Aluminum Dross Waste	50 MT/Year
14.	Batteries	100 Nos./Year
15.	E-Waste	1 MT/Year
16.	Insulating Material	25 MT/Year
Non-Hazardous Wastes		
17.	Fly Ash	86400 MT/Year

- (d) Air Emission: Adequate & Efficacious
 (Please refer Annexure-XVI for details of flue and process stack)

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

This certificate forms part of Environmental Audit report.

Date:
Place: Vadodara.

Name & Address of the Auditor:
Parul Institute of Technology,
Parul University.
Vadodara.

Signature of the Authorized Person

(Ms. Seema Nihalani)
Coordinator
Environmental Audit Team.



(Dr. Swapnil Parikh)
Director
Parul Institute of Technology,

CCA Compliance Report

CCA of the board vide order no. AWH-98281 dated 29/12/2018 valid upto 02/03/2024

- **1st amendment letter no. GPCB/BRCH-B/CCA-70-A(5)/ID-41279/506831 dated 16/05/2019,**
- **2nd amendment vide letter no. GPCB/BRCH-B/CCA-70-A(6)/ID-41279/526734 dated 13/11/2019,**
- **3rd CCA amendment No. AWH-118058 vide letter no. GPCB/BRCH-B/CCA-70(8)A/ID-41279/675546 dated 18/06/2022 and**
- **4th Amendment No. AWH-125264 vide letter no. GPCB/BRCH-B/CCA-70(9)(A)/ID-41279/743273 issued dated 29/05/2023.**

Sr. No.	CCA Conditions				Compliance	
1	Consent Order No. AWH-98281 dated 29/12/2018				Noted	
2	The Consent under Water Act-1974 shall be valid upto 02/03/2024. The Consent under Air Act-1981, Authorization under Environment (Protection) Act, 1986 shall be valid upto 02/03/2024 to operate industrial plant for manufacture of the following additional products.				Complied We are manufacturing products as per granted CCA by Board.	
	Sr. No.	Name of Product	Quantity (MT/Annum)			
			Existing	Proposed		Total
	1	Caustic Soda Lye	365000	-		365000
	2	Hydrogen	102200000 (Nm3)	-		102200000 (Nm3)
	3	Liq Cl2/Sodium Hypochlorite/HCl	328500	-		328500
	4	Poly Alluminium Chloride	250000	-		250000
	5	Chlorinated Paraffin Wax	70000	-		70000
	6	Alluminium Chloride	25000	-		25000
	7	Stable Bleaching Chloride	61000	-		61000
	8	Phosphoric Acid	35000	-		35000
	9	Calcium Chloride	87600	-		87600
	10	Captive Power Plant	96 MW	-		96 MW
	11	Alluminium Chlorohydrate (Super Coagulant)	5000	-		5000
	12	Calcium Hypochlorite	24000	-		24000
	13	Sodium Sulphate	-	2672		2672
	Proposed					
	14	Methyl Chloride	-	54000		54000
	15	Methylene Chloride (50-80% of total Production)				
16	Chloroform (15-40% of total production)					
17	Carbon Tetra Chloride (5-10% of total Production)					
3	SPECIFIC CONDITIONS					
3.1	The applicant shall not produce and 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 EC from competent authority.				Noted We are producing or carrying out activities for products/process as per EIA Notification dated 14/09/2006 as amended from time	

		to time and we have obtained prior EC from the SEIAA.
3.2	Applicant shall strictly comply/fulfill all the conditions stipulated by competent authority in the order of EC issued vide no. SEIAA/GUJ/EC/F(f)/96/2014, dated 01/08/2014 & SEIAA/GUJ/EC/5(f)&4(d)/64/2016 dated 29/10/2016	Complied We are complying with all the conditions stipulated by competent authority in the order of EC and also submitting half yearly compliance reports to authorities.
3.3	Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.	Noted We are producing or carrying out activities for products/process as per EIA Notification dated 14/09/2006 as amended from time to time and we have obtained prior EC from the SEIAA.
3.4	Unit shall use fresh Raw materials only.	Noted & Complied
3.5	Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MOU with such authorized end-users and submit MOU.	Complied We are selling our hazardous waste to authorized end users only which has valid CCA and Rule 9 permission. Also we made a MOU with such end-users.
3.6	All the efforts shall be made to send hazardous waste to cement industry for co-processing first & there after it shall be disposed through other option.	Noted
3.7	Unit shall follow spent solvent management guidelines framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.	Not Applicable As in our unit, no spent solvent are used or generate.
3.8	Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.	Complied We are strictly following Coal Handling guideline and also provided lime dosing system and ESP as an APCM.
3.9	Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.	Complied We are strictly following Coal Handling guideline framed by Board and provided 2 nos.

		of Close Ash handling Silos.
3.10	Unit shall strictly follow the Fly Ash Notification for disposal of generated Ash.	Complied We are strictly following Fly Ash Notification for disposal of Ash. There is 100% utilization of Ash.
3.11	Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.	Complied We have provided CEMS for Boiler 1 & 2 (175 TPH) and Boiler 3&4 (175 TPH) and also connected with Server of CPCB for real time data transfer.
3.12	Unit shall dispose / manage Phosphogypsum as per guidelines /directions of CPCB published from time to time and maintain complete record of its generation & disposal/management.	Complied The Phosphogypsum sludge has been disposed as per guidelines of CPCB published from time to time and maintaining complete record of its generation & disposal.
3.13	Unit shall have to ensure that generated Phosphogypsum waste is disposed/manage in Environmentally sound manner.	Complied The Phosphogypsum sludge has been managed in Environmentally Sound manner only.
4	CONDITIONS UNDER WATER ACT	
4.1	The quantity of the Total Water consumption shall not exceed 19222.3 KL/Day (Existing 19069.5 KLD + Proposed 152.8 KLD). (Break up as below) (a) Domestic: 472 KLD (Existing 471 KLD + Proposed 1 KLD) (b) Industrial: 18750.3 KLD (Existing 18598.5 KLD + Proposed 151.8 KLD)	Complied The quantity of total water consumption is as per prescribed limit only.
4.2	The quantity of total wastewater generation shall not exceed 6266.1 KL/day (Existing 6241.3 KLD + Proposed 24.8 KLD) (Break up as below) a) Domestic: 357.6 KLD (Existing 356.8 KLD + Proposed 0.8 KLD) b) Industrial: 5908.5 KLD (Existing 5884.5 KLD + Proposed 24 KLD) * Total quantity of wastewater discharge of the group companies (i.e. Chemical division + Cellulosic division + Epoxy Division) shall not exceeds 19.4 MLD at any time.	Complied The quantity of total wastewater generation is as per prescribed limit only.
4.3	The quantity of the industrial effluent from the manufacturing process and other ancillary industrial operations shall not exceed 5884.5 KLD and the quantity of domestic wastewater (sewage) shall not exceed 356.8 KLD.	Complied The quantity of total wastewater

		generation is as per prescribed limit. The quantity of domestic wastewater (sewage) is as per prescribed limit only.
4.4	5620 KLD of biodegradable industrial effluent shall be sent to ETP for primary, secondary & tertiary treatment. After treatment 5520 KLD 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 KLD of the treated effluent shall be reused/recycled/reduced.	Complied After primary treatment, our industrial effluent is sent for secondary & tertiary treatment to Fiber division and then sent for final disposal into GIDC underground drainage-Dahej Vilayat pipeline / common disposal system upto the sea. Treated effluent is reused/recycled/reduced in different plant operations.
4.5	@ 3 KLD additional wastewater generated from the process shall be taken to PAC (Poly Aluminum Chloride) plant for reuse.	Complied @ 3 KLD of wastewater generated from the Aluminum Chloro Hydrate process is reused into PAC (Poly Aluminum Chloride) plant for reuse.
4.6	After proposed expansion, addition wastewater generation shall be 261.50 KLPD, out of which from cooling (147 KLD) and from process (20 KLD) shall be taken to RO Plant. RO Permeate of 117 KLD shall be reused in process and RO reject (50 KLD) shall be used for coal sprinkling.	Complied After proposed expansion, additional wastewater generation not exceeded from 261.5 KLPD. Out of which cooling wastewater and process wastewater taken to RO plant and RO Permeate is reused and RO reject used for Coal sprinkling.
4.7	Additional wastewater 24.8 KLD generated due to proposed amendment shall be treated in ETP and then treated wastewater shall be recycled/reused.	Complied. Additional wastewater generated from Sodium Sulphate plant has been

		treated in existing ETP and then recycled back into process.																																																										
4.8	<p>Total 356.8 KLD Domestic wastewater sewage shall be treated in STP and treated waste water shall be used for gardening purpose after conforming following prescribed norms.</p> <table><tr><td>Parameters</td><td>GPCB Norms</td></tr><tr><td>pH</td><td>6.5 to 9</td></tr><tr><td>TSS</td><td><100 mg/l</td></tr><tr><td>Fecal Coliform (Most Probable Number per 100 milliliter, MPN/100ml)</td><td><1000 MPN/100 ml</td></tr><tr><td>BOD (3 days 27° degree C)</td><td>30 mg/l</td></tr></table>	Parameters	GPCB Norms	pH	6.5 to 9	TSS	<100 mg/l	Fecal Coliform (Most Probable Number per 100 milliliter, MPN/100ml)	<1000 MPN/100 ml	BOD (3 days 27° degree C)	30 mg/l	Complied Domestic wastewater sewage treated in existing STP and treated wastewater used for gardening purpose after confirming norms.																																																
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4.9	<p>The quality of treated effluent shall conform to the following standards prior to disposal GIDC Sewer line Dahej-Vilayat Pipeline / Common disposal system upto the sea for final disposal at NIO designated point.</p> <table><tr><td>Parameters</td><td>Permissible Limit</td></tr><tr><td>pH</td><td>6 to 9</td></tr><tr><td>Temperature</td><td>Shall not exceed more than 5°c above ambient water temperature</td></tr><tr><td>Total Suspended Solids</td><td>100 mg/l</td></tr><tr><td>Oil & Grease</td><td>10 mg/l</td></tr><tr><td>Phenolic Compounds</td><td>5 mg/l</td></tr><tr><td>Cyanides</td><td>0.2 mg/l</td></tr><tr><td>Fluoride</td><td>15 mg/l</td></tr><tr><td>Sulphides</td><td>5 mg/l</td></tr><tr><td>Ammonical Nitrogen</td><td>50 mg/l</td></tr><tr><td>Total Kjeldahl nitrogen (TKN)</td><td>50 mg/l</td></tr><tr><td>Nitrate Nitrogen</td><td>50 mg/l</td></tr><tr><td>Total Res. Chlorine</td><td>1 mg/l</td></tr><tr><td>Arsenic</td><td>0.2 mg/l</td></tr><tr><td>Trivalent Chromium</td><td>2 mg/l</td></tr><tr><td>Hexavalent Chromium</td><td>0.1 mg/l</td></tr><tr><td>Copper</td><td>3 mg/l</td></tr><tr><td>Lead</td><td>0.1 mg/l</td></tr><tr><td>Mercury</td><td>0.01 mg/l</td></tr><tr><td>Nickel</td><td>3 mg/l</td></tr><tr><td>Zinc</td><td>15 mg/l</td></tr><tr><td>Cadmium</td><td>0.05 mg/l</td></tr><tr><td>BOD (3 Days at 27°C)</td><td>100 mg/l</td></tr><tr><td>COD</td><td>250 mg/l</td></tr><tr><td>Selenium</td><td>0.05 mg/l</td></tr><tr><td>Vanadium</td><td>0.2 mg/l</td></tr><tr><td>Manganese</td><td>2 mg/l</td></tr><tr><td>Iron</td><td>3 mg/l</td></tr><tr><td>Bio-Assey Test</td><td>90% survival of fish after 96 hrs in 100% effluent</td></tr></table>	Parameters	Permissible Limit	pH	6 to 9	Temperature	Shall not exceed more than 5°c above ambient water temperature	Total Suspended Solids	100 mg/l	Oil & Grease	10 mg/l	Phenolic Compounds	5 mg/l	Cyanides	0.2 mg/l	Fluoride	15 mg/l	Sulphides	5 mg/l	Ammonical Nitrogen	50 mg/l	Total Kjeldahl nitrogen (TKN)	50 mg/l	Nitrate Nitrogen	50 mg/l	Total Res. Chlorine	1 mg/l	Arsenic	0.2 mg/l	Trivalent Chromium	2 mg/l	Hexavalent Chromium	0.1 mg/l	Copper	3 mg/l	Lead	0.1 mg/l	Mercury	0.01 mg/l	Nickel	3 mg/l	Zinc	15 mg/l	Cadmium	0.05 mg/l	BOD (3 Days at 27°C)	100 mg/l	COD	250 mg/l	Selenium	0.05 mg/l	Vanadium	0.2 mg/l	Manganese	2 mg/l	Iron	3 mg/l	Bio-Assey Test	90% survival of fish after 96 hrs in 100% effluent	Complied We are confirming the GPCB prescribed standards for treated effluent prior to disposal.
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4.10	<p>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.</p>	Complied We have installed Water Meter at the inlet. Logbook is maintained to record the water consumption.																																																										
5	SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS UNDER WATER ACT:																																																											
5.1	<p>Applicant shall be a member of Dahej CETP as & when come up and sent its industrial waste water, if required.</p>	Noted																																																										

		We shall become a member of Dahej CETP as & when required.																							
5.2	The effluent shall be stripped off, of VOC's in a closed system before further treatment into ETP.	Noted We shall strip off VOC's if required. Our effluent does not contain VOC's.																							
5.3	Unit shall provide treated effluent holding facility for at least 48 hrs, having vertical tank design preferably.	Complied We have provided treated effluent holding facility for 48 hrs.																							
5.4	Applicant shall carry out Bio Assay Toxicity test for the treated waste water and same shall be submitted to the GPCB.	Complied Bio Assay Toxicity test for the treated waste water is being carried out by NABL accredited laboratory and submitted regularly.																							
5.5	Unit shall install continuous monitoring as well as alarm system for parameters of treated effluent, such as pH meter, TOC analyser, 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.	Complied 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.																							
5.6	Applicant shall ensure & undertake on Rs. 100 stamp paper that it has one & only one outlet in GIDC U/G drain.	Complied We have taken undertaking for one & only one outlet in GIDC U/G drain.																							
5.7	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.	Complied We have displayed the unit & technical relevant details on mouth of pipeline into GIDC U/G drain.																							
6.	CONDITIONS UNDER AIR ACT:																								
6.1	The following shall be used as fuel in Boiler/ D. G. Set respectively. <table><tr><th rowspan="2">Sr. No.</th><th rowspan="2">Fuel</th><th colspan="3">Quantity</th></tr><tr><th>Existing</th><th>Proposed</th><th>Total</th></tr><tr><td>1</td><td>Coal</td><td>72000 MT/Month</td><td>-</td><td>72000 MT/Month</td></tr><tr><td>2</td><td>HSD</td><td>2200 Lit/ Hr</td><td>200 Lit/Hr</td><td>2400 Lit/Hr</td></tr><tr><td>3</td><td>Hydrogen</td><td>-</td><td>200 NM3/hr</td><td>200 NM3/hr</td></tr></table>	Sr. No.	Fuel	Quantity			Existing	Proposed	Total	1	Coal	72000 MT/Month	-	72000 MT/Month	2	HSD	2200 Lit/ Hr	200 Lit/Hr	2400 Lit/Hr	3	Hydrogen	-	200 NM3/hr	200 NM3/hr	Complied Fuel consumption is as per prescribed limit.
Sr. No.	Fuel			Quantity																					
		Existing	Proposed	Total																					
1	Coal	72000 MT/Month	-	72000 MT/Month																					
2	HSD	2200 Lit/ Hr	200 Lit/Hr	2400 Lit/Hr																					
3	Hydrogen	-	200 NM3/hr	200 NM3/hr																					
6.2	The flue gas emission through stack attached to Boiler/ D. G. Set shall conform to the following standards.	Complied																							

	Sr. No.	Stack attached to	Stack height in meters	APCM	Air emission	
					Parameter & Permissible limit	
	Existing					
	1.	Boiler 1 & 2	125	ESP & Low NO _x burner	PM - 150 mg/Nm ³ SO _x - 100 ppm NO _x - 50 ppm	
	2.	Boiler 3 & 4	125			
	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	
	Proposed					
	7.	DG Set (750 KVA -1 Nos.)	11	-	PM- 150 mg/Nm3 SO _x - 100 ppm NO _x - 50 ppm	
8.	Volatile Reduction Chamber (VRC)	35	Water & Caustic Scrubber	NO _x - 50 ppm HCl- 20 mg/m3 Cl ₂ - 9 mg/m3		
6.3	The process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards.					<ul style="list-style-type: none">• Complied• We are conforming the GPCB prescribed standards for process emission.• Online Monitoring facility has been provided for Sodium Hypo stack 1 & 2 and HCl stack 1, 2, 3 and 4 which are also connected with GPCB & CPCB server.
Sr. No.	Stack attached to	Stack height in meters	Air Pollution Control System	Air emission		
				Pollutant & Concentration		
Existing						
1	Sodium Hypo stack 1 (Caustic Plant)	35	Alkali Scrubber	Cl ₂ - 9 mg/Nm3		
2	HCl stack 1 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	HCl - 35 mg/Nm3		
3	HCl stack 2 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.			
4	Poly Aluminium Chloride liquid	35	Water scrubbing system	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		
5	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		
6	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		
7	Stable Bleaching Powder Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		
8	Phosphoric Acid	35	Water Scrubber	HCl - 20 mg/Nm3 HF - 6 mg/Nm3		
9	Calcium Chloride	35	Water Scrubber	HCl - 20 mg/Nm3		
10	Sodium Hypo stack 2 (Caustic Plant)	35	Alkali Scrubber	Cl ₂ - 9 mg/Nm3		
11	HCl stack 3 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.	HCl - 35 mg/Nm3		
12	HCl stack 4 (Caustic Plant)	35	Water Scrubber having bubble cap tray absorption system.			
13	Poly Aluminium Chloride liquid	35	Water Scrubber System	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		
14	Poly Aluminium Chloride powder	35	3 stage Water Scrubber	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		
15	Chlorinated Paraffin Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl ₂ - 9 mg/Nm3		

- We are conforming the GPCB prescribed standards for flue gas emission.
- Also please note that Online Monitoring facility has been provided for Boiler 1 & 2 and 3&4 which are also connected with GPCB & CPCB server.

- Complied**
- We are conforming the GPCB prescribed standards for process emission.
- Online Monitoring facility has been provided for Sodium Hypo stack 1 & 2 and HCl stack 1, 2, 3 and 4 which are also connected with GPCB & CPCB server.

	<table><tr><td>16</td><td>Aluminium Chloride</td><td>35</td><td>Alkali scrubbing system</td><td>HCl - 20 mg/Nm3 Cl2 - 9 mg/Nm3</td></tr><tr><td>17</td><td>Stable Bleaching Powder Plant</td><td>35</td><td>Alkali scrubbing system</td><td>HCl - 20 mg/Nm3 Cl2 - 9 mg/Nm3</td></tr><tr><td>18</td><td>Vent attached to reactor</td><td>35</td><td>--</td><td>H2 gas *</td></tr><tr><td>19</td><td>Vent attached to dryer-1 (HSBP)</td><td>21</td><td>Bag Filter</td><td>PM < 150 mg/Nm3</td></tr><tr><td>20</td><td>Vent attached to dryer-2 (HSBP)</td><td>21</td><td>Bag Filter</td><td>PM < 150 mg/Nm3</td></tr><tr><td>21</td><td>Vent attached to reaction vessel-1 (HSBP)</td><td>21</td><td>Water/ Caustic Scrubber</td><td>Cl2 < 5 mg/Nm3</td></tr><tr><td>22</td><td>Vent attached to reaction vessel-2 (HSBP)</td><td>21</td><td>Water/ Caustic Scrubber</td><td>Cl2 < 5 mg/Nm3</td></tr><tr><td colspan="5">Proposed</td></tr><tr><td>23</td><td>Hydro Chlorinator – CMS Plant</td><td>35</td><td>Alkali Scrubber</td><td>HCl-20mg/Nm3</td></tr><tr><td>24</td><td>Crude CMS Distillation CMS Plant</td><td>35</td><td rowspan="2">Condenser and guard condenser with cooling water circulation & chilled circulation</td><td rowspan="2">VOC-1µg/m3</td></tr><tr><td>25</td><td>Heavies CMS Distillation CMS Plant</td><td>35</td></tr></table> <p>* Industry shall take all precautions so that there shall be no escape of H₂ gas.</p>	16	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl2 - 9 mg/Nm3	17	Stable Bleaching Powder Plant	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl2 - 9 mg/Nm3	18	Vent attached to reactor	35	--	H2 gas *	19	Vent attached to dryer-1 (HSBP)	21	Bag Filter	PM < 150 mg/Nm3	20	Vent attached to dryer-2 (HSBP)	21	Bag Filter	PM < 150 mg/Nm3	21	Vent attached to reaction vessel-1 (HSBP)	21	Water/ Caustic Scrubber	Cl2 < 5 mg/Nm3	22	Vent attached to reaction vessel-2 (HSBP)	21	Water/ Caustic Scrubber	Cl2 < 5 mg/Nm3	Proposed					23	Hydro Chlorinator – CMS Plant	35	Alkali Scrubber	HCl-20mg/Nm3	24	Crude CMS Distillation CMS Plant	35	Condenser and guard condenser with cooling water circulation & chilled circulation	VOC-1µg/m3	25	Heavies CMS Distillation CMS Plant	35	
16	Aluminium Chloride	35	Alkali scrubbing system	HCl - 20 mg/Nm3 Cl2 - 9 mg/Nm3																																																			
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6.4	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">• Complied• Adequate Air Pollution Control Equipment are installed to achieve prescribed standards.• Air Pollution Control Equipment are installed as per CC&A.																																																					
6.5	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.	Complied stack monitoring facilities like Port-hole, platform/ ladder etc. have been provided to facilitate sampling.																																																					
6.6	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 and mainly to the following standards:- <table><tr><th rowspan="2">Sr. no.</th><th rowspan="2">Parameter</th><th colspan="2">Permissible Limit (microgram/m3)</th></tr><tr><th>Annual</th><th>24 Hours Avearge</th></tr><tr><td>1</td><td>Particulate matter (PM10)</td><td>60</td><td>100</td></tr><tr><td>2</td><td>Particulate matter (PM2.5)</td><td>40</td><td>60</td></tr><tr><td>1</td><td>Oxides of Sulphur (SOx)</td><td>50</td><td>80</td></tr><tr><td>2</td><td>Oxides of Nitrogen (NOx)</td><td>40</td><td>80</td></tr></table> <p>*Annual arithmetic mean of minimum of 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.</p> <p>** 24 hourly or 8 hourly or 1 hourly monitored values as applicable, shall be complied with 98% of the tome in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.</p>	Sr. no.	Parameter	Permissible Limit (microgram/m3)		Annual	24 Hours Avearge	1	Particulate matter (PM10)	60	100	2	Particulate matter (PM2.5)	40	60	1	Oxides of Sulphur (SOx)	50	80	2	Oxides of Nitrogen (NOx)	40	80	Complied 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.																															
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	Note:- Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.	
6.7	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.	Complied All the Air Pollution Control equipments and industrial plant is operated very efficiently and continuously and conforming the given standards.
6.8	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
6.9	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.	Complied Port-hole, platform/ ladder etc. as stack monitoring facilities have been provided to facilitate sampling.
6.10	All measures for the control of environmental pollution shall be provided before commencing production.	Complied Before the plant operation we have taken all measures for the control of environmental pollution.
7	SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS UNDER AIR ACT:	
7.1	Total control of odour nuisance from the plant premises, shall be achieved & maintained by the applicant continuously.	Complied We have provided Chlorine and HCl sensors at different plant locations to control the odour nuisance.
7.2	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.	Complied 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.
8.	AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (see rule 6(2))	
8.1	Number of Authorization: AWH-98281, Date of Issue- 29/12/2018	Noted

8.2	Unit shall comply with provisions of Hazardous & Other wastes (Management & Transboundary Movement) Rules-2016.						Noted & Complied	
8.3	M/s. GRASIM INDUSTRIES LIMITED- CHEMICAL DIVISION) is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Plot No. 1, GIDC, Vilayat-392140, Tal: Vagra, Dist: Bharuch.						Complied Collection, Storage, Transportation and disposal of wastes is being carried out as per granted CC&A.	
	Sr. No .	Type of Waste	Catego ry	Qty. MT/Year				Disposal
				E	P	T		
	1	Chemical sludge from Waste water treatment	35.3	40215	(- 30215+ 5)	10005		Collection, storage, transportation & disposal at approved TSDF Site.
	2	Spent Carbon	36.2	40.33	0	40.33		Collection, storage, transportation & disposal at approved TSDF Site.
	3	Used Spent Oil	5.1	101 kL	29 KL	130 KL		Collection, storage, transportation & disposal by selling to registered re-refiners
	4	Spent ion exchange resin	35.2	1	4	5		Collection, storage, transportation & disposal at approved TSDF Site.
	5	Discarded container /	33.1	2000 nos.	500 Nos	2500 Nos		Collection storage, Decontamination/Detoxification, reuse, transportation and disposal by sending to authorised recyclers/refiners
		Bags / Liners		25	525	550		
	6	Incinerable Waste	36.1	142	0	142		Collection, storage, transportation, disposal at CHWIF site
	7	Spent Acid* (HCl)	B15	14250 0	0	14250 0		Collection, storage, transportation through pipeline and disposal by consuming (60000 MT/Year) in-house in manufacturing of Poly Aluminium Chloride. Collection, storage, and disposal by sending (82500 MT/Annum) to Actual users/end-users having rule-9 permission & valid CCA after making MOU.
	8	Spent Acid** (Dilute Sulphuric Acid)	B15	15500	0	15500		Collection, storage, transportation and disposal by sending to authorised actual users/end user having rule-9 Permission & valid CCA after making MOU.
	9	Bleaching Liquid (consists of 3% Hypo, 10% CaCl2, 65% to 75% water)	--	60000	0	60000		Collection, storage, transportation and disposal by sending to authorised actual users/end user having rule-9 Permission & valid CCA after making MOU.
	10	Sodium Chloride (consist of 90% NaCl)	--	6000	0	6000		Collection, storage, transportation & disposal at approved TSDF Site.
	11	Residue/ sludge & filter cake	16.2	6066	0	6066		Collection, storage, transportation & disposal at approved TSDF Site.
	12	Spent Catalyst	17.2	25	0	25		Collection, storage, transportation & disposal at approved TSDF Site.
	13	Alluminium Dross Waste	-	50	0	50		Collection, storage, transportation & disposal at approved TSDF Site.
	14	Batteries	-	100 Nos.	0	100 Nos.		Collection, storage, transportation & disposal as per the batteries

							Management and Handling Rules, 2010.	
	15	E-Waste	-	1	0	1	Collection, storage, transportation & disposal as per the E-Waste management Rules-2016	
	16	Insulating Material	-	25	0	25	Collection, storage, reuse, transportation and disposal at approved TSDF.	
	Non-Hazardous Waste							
	17	Fly Ash	-	86400	-	86400	Collection, storage, transportation, disposal by selling to brick manufacturing as per fly ash notifications/rules.	
	18	Phosphogypsum (generated from Phosphoric Acid plant)	-	0	30215	30215	Collection, Storage, transportation and disposal in Environmentally Sound manner as per the guidelines/directions of CPCB published from time to time.	
8.4	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.							Complied We are complying the condition.
8.5	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.
8.6	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
8.7	Unit shall provide separate, adequate storage areas for raw materials, products, each type of hazardous wastes, including for containers containing fresh / used / waste etc.							Complied Separate storage area for raw materials, products, each type of hazardous wastes has been provided.
8.8	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.							Complied We have covered open portion of hazardous waste storage area from the top to the bottom to prevent ingress of water from outside.
9	Unit shall abide all the conditions of CTE Amendment issued vide letter no: GPCB/BRCH-B-CCA-70A(4)/ID-41279/478307 dated 10/12/2018 and subsequent amendments under the provisions under the provisions of various Environmental Act/ Rules.							Noted & Complied We abide all the conditions of CTE Amendment issued vide letter no: GPCB/BRCH-B-CCA-70A(4)/ID-41279/478307 dated 10/12/2018 and subsequent amendments under the provisions under the provisions of

		various Environmental Act/ Rules.
10	All other conditions of CCA order AWH-98281 issued vide letter no. GPCB/BRCH-B-CCA-70A(5)/ID-41279/492673 dated 29/12/2018 and subsequent amendments under the provisions of various Environmental act/ rules shall remain unchanged.	Noted.
11	TERMS AND CONDITIONS OF AUTHORISATION:	
11.1	The authorized person shall comply with the provisions of the Environment (Protection) Act - 1986 and the rules made there under.	Noted & complied We are complying the condition.
11.2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	Noted
11.3	The persons authorized shall not rent, lend, sell, transfer of otherwise transport the hazardous and other wastes except what is permitted through authorization.	Noted
11.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization is being granted constitute a breach of this authorization.	Noted
11.5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts also carry out mock drill in this regard at regular interval of time.	Complied We have developed Onsite Emergency Plan and implemented mitigation measures accordingly.
11.6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environment Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Noted & Complied
11.7	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	Noted
11.8	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
11.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Not Applicable
11.10	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other waste shall be treated and disposed of as per specific conditions of authorization.	Not Applicable
11.11	The importer or exporter shall bear the cost of import or export and mitigation of damages if any.	Not Applicable
11.12	An application for the renewal of an authorization shall be made as laid down under these rules.	Noted
11.13	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
11.14	Annual Return shall be filed by June 30th for the period ensuring 31st March of the year.	Complied Annual return is filled by June 30th every year.
12	GENERAL CONDITIONS:	

12.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.	Noted
12.2	Applicant shall also comply with the general conditions given in Annexure-I attached herewith (No. 1 to 38).	Noted & Complied The general conditions given in Annexure-I has been complied.
12.3	The applicant shall not carry out any activities for which required clearances are not obtained.	Noted
12.4	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
12.5	Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.	Complied Preventive maintenance schedule is being followed.
12.6	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.	Complied We are maintaining & submitting (Monthly patrak on xgn site) the water consumption and wastewater generation, discharge, quantity of each product manufactured and consumption of electricity on day-to-day basis.
12.7	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.	Complied We have provided flow meters installed at the various stages of inlet & outlet of pipeline.

We have carried out following CSR Activities in nearby villages:

1. Procured Mobile medical van and started the periodic medical check-up in nearby villages.
2. Exhibition @ Hotel Lord Plaza Bharuch
3. Artificial Insemination -231
4. Blood Donation Camp organized at Grasim Plant - 84 Employees Donated Blood
5. Diwali Craft Exhibition with Co-ordination with Kalrav School – (Day Care School for Especially Abled Children)
6. Specialized Orthopaedic Health Camp arranged @ Vilayat Village– Total Patients - 328
7. Rs. 3000 Scholarship given to 197 girl children for students going for Higher Education Post Primary School
8. 50 Mal Nutrition Kit given to Pregnant Women of Vilayat village and Vorasamni Village.
9. Shed Work Done at Derol High School
10. Dermatologist Specialized Health Camp at Vilayat Village on 12-12-2021 – Total Beneficiaries – 101
11. Vilayat School Building Renovation in Progress.

Glimpse of Diwali Craft Exhibitions



Glimpse of Specialized Orthopaedic Camp



Glimpse of Shed Work Done at Derol High School



Glimpse of Dermatologist Specialized Health Camp at Vilayat





Media Coverage

વિલાયત ગામે ગ્રાસીમ કંપની દ્વારા વિનામૂલ્ય યામડીના રોગોનો કેમ્પ યોજાયો

૧૫૦થી વધુ દર્દીઓને કેમ્પનો લાભ લીધો

જયપુર, ૧૨ ડિસેમ્બર: ગ્રાસીમ કંપની દ્વારા વિલાયત ગામે ૧૨ ડિસેમ્બરે વિનામૂલ્ય યામડીના રોગોનો કેમ્પ યોજાયો હતો. ૧૫૦થી વધુ દર્દીઓને કેમ્પનો લાભ લીધો હતો. ગ્રાસીમ કંપની દ્વારા વિલાયત ગામે ૧૨ ડિસેમ્બરે વિનામૂલ્ય યામડીના રોગોનો કેમ્પ યોજાયો હતો. ૧૫૦થી વધુ દર્દીઓને કેમ્પનો લાભ લીધો હતો. ગ્રાસીમ કંપની દ્વારા વિલાયત ગામે ૧૨ ડિસેમ્બરે વિનામૂલ્ય યામડીના રોગોનો કેમ્પ યોજાયો હતો. ૧૫૦થી વધુ દર્દીઓને કેમ્પનો લાભ લીધો હતો.

ઔદ્યોગિક તાલીમ મંરથા અંકલેશ્વરમાં

ગ્રાસીમ ઈન્ડસ્ટ્રીઝ દ્વારા વિલાયત ગામે આરોગ્ય નિદાન કેમ્પ યોજાયો

વિલાયત ગામે ગ્રાસીમ કંપની દ્વારા આરોગ્ય નિદાન કેમ્પ યોજાયો હતો. ૧૫૦થી વધુ દર્દીઓને કેમ્પનો લાભ લીધો હતો. ગ્રાસીમ કંપની દ્વારા વિલાયત ગામે ૧૨ ડિસેમ્બરે વિનામૂલ્ય યામડીના રોગોનો કેમ્પ યોજાયો હતો. ૧૫૦થી વધુ દર્દીઓને કેમ્પનો લાભ લીધો હતો.

વિશ્વ એઈડ્સ દિવસની આદિત્ય બિરલા ગ્રાસીમ કંપનીમાં ઉજવણી કરવામાં આવી

૦૩-૧૨-૨૦૨૧

આદિત્ય બિરલા ગ્રાસીમ કંપનીમાં ૩ ડિસેમ્બરના રોજ વિશ્વ એઈડ્સ દિવસની ઉજવણી કરાઈ હતી. જેમાં ૬૦ થી વધુ લોકોને જનજાગૃતિના ભાગરૂપે HIV-એઈડ્સ વિશે સંપૂર્ણ માહિતી આપવામાં આવી હતી. જેમાં NLRDF Team & Creation group દ્વારા નાટક ભજવીને એઈડ્સ વિશે જાણકારી લોકોને સમજાવવામાં આવ્યા હતા. આ કાર્યક્રમમાં ગ્રાસીમ કંપનીના ફેક્ટરી માલિક આદિત્ય બિરલા, કુટુંબ મેમ્બર્સ અને એક્સચાન્જ વિભાગના મિત્રો સુરતીના સહયોગથી આશિષ પટેલ અને ટીમ દ્વારા આ પ્રોગ્રામનું આયોજન કરવામાં આવ્યું હતું.

વિશ્વ એઈડ્સ દિવસની આદિત્ય બિરલા ગ્રાસીમ કંપનીમાં ઉજવણી કરવામાં આવી

આદિત્ય બિરલા ગ્રાસીમ કંપનીમાં ૩ ડિસેમ્બરના રોજ વિશ્વ એઈડ્સ દિવસની ઉજવણી કરાઈ હતી. જેમાં ૬૦ થી વધુ લોકોને જનજાગૃતિના ભાગરૂપે HIV-એઈડ્સ વિશે સંપૂર્ણ માહિતી આપવામાં આવી હતી. જેમાં NLRDF Team & Creation group દ્વારા નાટક ભજવીને એઈડ્સ વિશે જાણકારી લોકોને સમજાવવામાં આવ્યા હતા. આ કાર્યક્રમમાં ગ્રાસીમ કંપનીના ફેક્ટરી માલિક આદિત્ય બિરલા, કુટુંબ મેમ્બર્સ અને એક્સચાન્જ વિભાગના મિત્રો સુરતીના સહયોગથી આશિષ પટેલ અને ટીમ દ્વારા આ પ્રોગ્રામનું આયોજન કરવામાં આવ્યું હતું.

CERTIFICATE

Management system as per

ISO 50001 : 2018

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

GRASIM INDUSTRIES LIMITED

Corporate Office

**Birla Aurora Tower, 10th floor, Near Century Bhavan,
Dr. Annie Besant Road, Worli Mumbai - 400 030,
Maharashtra,
India**

operates a management system in accordance with the requirements of ISO 50001 : 2018 at the location

GRASIM INDUSTRIES LIMITED.

Chemical Division, Vilayat

**Plot No. 1, GIDC Vilayat Industrial Estate P. O. Vilayat,
Taluka: Vagra, District: Bharuch - 392 012,
Gujarat, India**

will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Dispatch of Caustic Soda Lye and Flakes, Liquid Chlorine, Hydrochloric Acid, Aluminium Chloride, Poly Aluminium Chloride (Liquid & Powder), Sodium Hypochlorite, Sodium Sulphate, Compressed Hydrogen Gas, Chlorinated Paraffin, Stable bleaching Powder, Phosphoric Acid, High Strength Bleaching Powder, Aluminium chloro Hydrate, Calcium Chloride (Liquid & Granules), Methylene Chloride, Chloroform and Carbon Tetrachloride.

Certificate Registration No. **44 764 22393463-005**
Audit Report No. **2.5-10656/2021**



Valid from **29.05.2022**
Valid until **28.05.2025**
Initial certification **11.03.2018**

Certification Body
at TÜV NORD CERT GmbH

Mumbai, **29.05.2022**

This certificate is valid in conjunction with the main certificate.

TÜV NORD CERT GmbH

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