Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	IA/MP/IND2/26969/2015	
Compliance ID	127582206	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127582206/2025	
Reporting Year	2025	
Reporting Period	01 Jun(01 Oct - 31 Mar)	
Submission Date	28-05-2025	
RO/SRO Name	Shri Ashok Kumar Sinha	
RO/SRO Email	tg035@ifs.nic.in	
State	MADHYA PRADESH	
RO/SRO Office Address	Integrated Regional Offices, Bhopal	
Note:- SMS and E-Mail has been sent to Shri Ashok Kumar Sinha, MADHYA PRADESH with Notification to Project Proponent.		



GRCD/EHS/ 66

Date-12.05.2025

To,

The Director,
Ministry of Environment, Forest and Climate Change,
Government of India
Vayu Wing, 3<sup>rd</sup> floor, Indira Paryavran Bhawan,
Jorbagh Road, New Delhi-110003

Sub: Reg. submission of Half yearly compliance report (October 2024, -March, 2025) for the Expansion project of caustic chlorine products from and value-added derivatives along with installation of new chloromethane plant at village-Birlagram, Tehsil-Nagda, District-Ujjain (MP) by M/s. Grasim Industries Ltd. (Chemical division)

Ref.: EC Letter no. F. No. J-11011/119/2015-IA. II(I) dated 7.1.2020

Dear Sir,

With reference to aforesaid subject & reference matter, we are herewith submitting Half yearly EC compliance report (October 2024, -March, 2025) for the Expansion project of caustic chlorine products from and value-added derivatives along with installation of new chloromethane plant at village-Birlagram, Tehsil-Nagda, District-Ujjain (MP) by M/s. Grasim Industries Ltd. (Chemical division)

We hope you will find our reply in order

Yours Faithfully,

M/s. Grasim Industries Ltd.

(Chemical division)

Ashok Kumar Gupta President & Unit Head

# HALF YEARLY COMPLIANCE REPORT OCTOBER 2024 TO MARCH 2025

**FOR** 

## GRASIM INDUSTRIES LTD. (CHEMICAL DIVISION)

Expansion of Caustic chlorine products from and valueadded derivatives along with installation of new chloromethane plant

EC Letter No.: F.No. J-11011/119/2015-IA. II (I) dated 07.01.2020

#### **Submitted By:**



**Grasim Industries Limited** (Unit: Chemical Division)

Village: Birlagram, Tehsil: Nagda, District: Ujjain (Madhya Pradesh)

#### **CONTENTS**

S. NO.	PARTICULARS	PAGE NO.
1.	Executive Summary	1
2.	Copy of EC Letter No. J-11011/119/2015-IA. II(I) dated 7 <sup>th</sup> January 2020	2-9
3.	Copy of sector specific conditions as mentioned in the Ministry's Office	10-16
	Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018.	
4.	Point wise reply to the EC Letter & Sector Specific Conditions	17-51
List of Annexu	res:	
Annexure 1	Consent to Operate under Water & Air Acts (MPPCB)	52-58
Annexure 1A	Hazardous Waste Authorization and Landfill Consent (MPPCB)	59-77
Annexure 2	Zero Liquid Discharge (ZLD) System Description & Photos	78-82
Annexure 3	Ambient Air Quality Monitoring Data (Oct 2024–Mar 2025)	83-84
Annexure 4	Stack Emission Monitoring & DG Noise Results	85-87
Annexure 5	Permission for water drawl from Chambal River given by Water resource	88-95
	Department	
Annexure 6	Medical Fitness Report	96-97
Annexure 7	Site-Specific Conservation Plan Approval (Wildlife Warden)	98-99
Annexure 8	Fugitive emission monitoring data	100-101
Annexure 9	Ambient Air Noise Level Monitoring Data (Oct 2024–Mar 2025)	102-103
Annexure 10	Third Party Environmental Audit Conclusion Report	104-105

#### **Executive Summary**

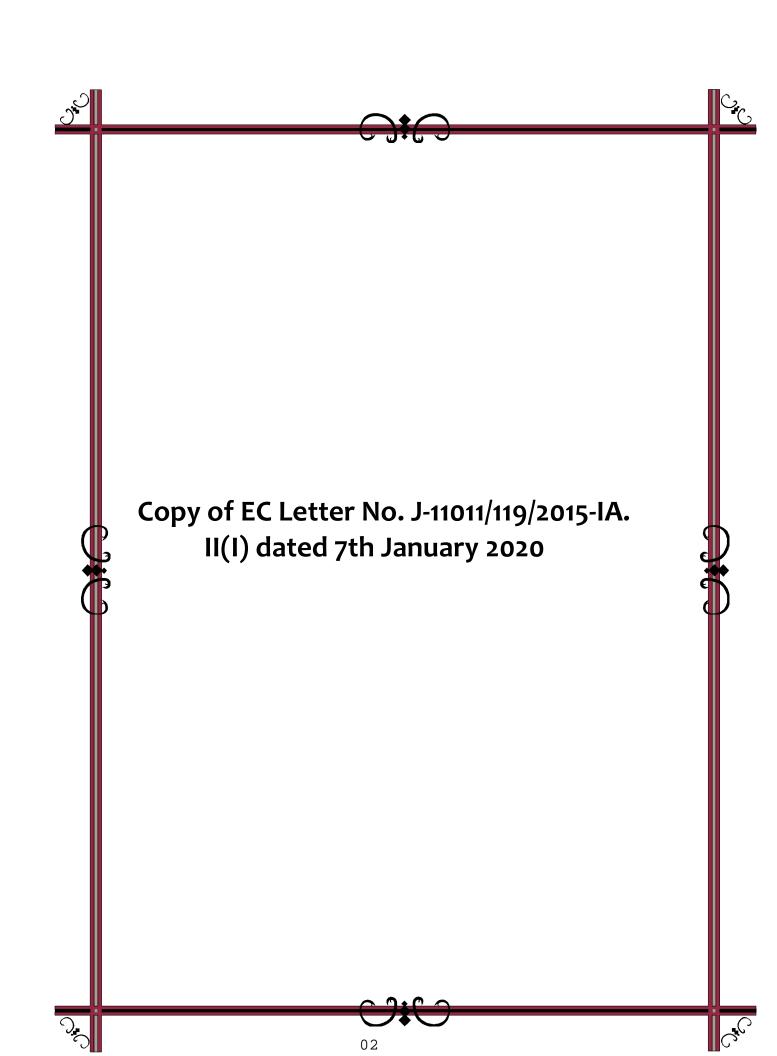
This report outlines the status of compliance with the conditions stipulated in the Environmental Clearance granted to the unit vide letter no. J-11011/119/2015-IA.II(I) dated 07.01.2020 for the expansion of Caustic Chlorine and associated downstream products at the Chemical Division of Grasim Industries Ltd., Nagda.

During the reporting period (October 2024 – March 2025), all operations were carried out in adherence to the prescribed environmental safeguards. Measures related to pollution control, resource optimization, safety, and health management have been continually reviewed and updated in accordance with regulatory expectations.

Environmental monitoring covering ambient air, stack emissions, and noise levels has been conducted through accredited laboratories. Monitoring results remain within the permissible limits as specified under applicable standards. Compliance data is systematically uploaded on the Parivesh portal as per the stipulated frequency.

Provisions for water conservation, waste management, occupational health, and greenbelt development have been effectively integrated into day-to-day operations. Documentation, including statutory permissions, monitoring reports, and third-party audits, is enclosed for reference.

All observations provided in the report are based on actual data collected during the reporting period.





#### F. No. J-11011/119/2015-IA-II (I)

Government of India Ministry of Environment, Forest & Climate Change Impact Assessment Division

\*\*\*

Indira Paryavaran Bhavan, Vayu Wing, 3<sup>rd</sup> Floor, Aliganj, Jor Bagh Road, New Delhi-110 003

Dated: 7<sup>th</sup> January, 2020

To,

M/s Grasim Industries Ltd.,

Village- Birlagram, Nagda, District-Ujjain-456 331 (Madhya Pradesh)

Sub: Expansion of Caustic Chlorine Products from and Value Added Derivatives along with installation of new Chloromethane Plant by M/s Grasim Industries Ltd. (Chemical Division) at Birlagram, Nagda, District Ujjain (Madhya Pradesh) – Environmental Clearance reg.

Sir,

This has reference to your online proposal No.IA/MP/IND2/26969/2015, dated 30<sup>th</sup> September, 2019 along with the EIA/EMP report and Public hearing proceedings for the above mentioned project.

2. The details of proposed products are as under -

S. No.	Particulars	Existing (TPA)	Additional (TPA)	Total (TPA)
A.	Main Products			
1.	Caustic Soda	270000	180000	450000
2.	Poly Aluminum Chloride	27720	137280	165000
3.	Stable Bleaching Powder	29436	25314	54750
4.	Chlorinated Paraffin	27000	18645	45645
5.	Chloromethane	Nil	36000	36000
6.	Chloro Sulphonic Acid	23400	Nil	23400
7.	Calcium Chloride (100 %)	54000	Nil	54000
B.	CO-Products and By-Produc	cts		
1.	Chlorine	215200	149800	365000
2.	Hydrochloric Acid (100%)	79000	56000	135000
3.	Sodium Hypochlorite	53520	36480	90000
	(100%)			
4.	Hydrogen	6730	4670	11400
5.	Compressed Hydrogen	960	500	1460
6.	Carbon Dioxide (By- product)	23760	Nil	23760

- **3.** The proposed project/activity is listed under category A of item 4(d) 'Chlor Alkali Industry' and 5(f) 'Synthetic organic chemical industry' in the schedule of Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal/approval at central level by sectoral Expert Appraisal Committee (EAC).
- 4. The terms of reference for the project was granted on 29<sup>th</sup> July, 2015 followed by validity extension of ToR vide letter dated 11<sup>th</sup> December, 2018. Public Hearing for the

Ec to M/s Grasim Industries Ltd. (Chemical Division)

proposed expansion project was conducted by State Pollution Control Board on 04<sup>th</sup> June, 2019. The Public Hearing was chaired by ADM Ujjain. The main issue raised during the public hearing are related to Employment, Water source & Water pollution, Effluent discharge, Gaseous Emission etc.

- **5.** Project Proponent reported that the existing land area is 61.92 ha (619200 m2). No additional land will be required for proposed expansion. Industry has already developed greenbelt in an area of 38% i.e. 23.68 ha (236800 m2) out of total area of the project. Project Proponent reported that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger/Elephant Reserve, and Wildlife Corridor within 10 km distance from the project site. Dam is at a distance of 2.13 km in NW direction, Bangerl Nadi flows at distance of 2.5 km in West direction, Chambal River flows at a distance of 0.6 km in West direction, Khajuri Nala is at 0.5 km in South direction.
- 6. Project Proponent reported that total water requirement is 6000 m3/day including fresh water requirement of 5400 m3/day proposed to be met from Chambal river. Effluent of 610 m3/day quantity is being/will be treated in Effluent Treatment Plant. The plant is being/will be based on Zero Liquid discharge system. Power requirement after expansion will be 141 MW including existing 80 MW and will be met from Outsource & Madhya Pradesh State Electricity Board (MPSEB). Existing unit has 2 Nos. DG sets of 2000 KVA capacity each, having 30 metre stack height as per CPCB norms used during power failure. Additionally, no DG sets will be required for proposed expansion project. Existing unit has 2 Hydrogen gas fired boilers of 9 TPH capacity each. No new boiler will be installed.
- 7. Project Proponent reported that the Ambient air quality monitoring was carried out at 8 locations during Winter Season (Dec., 2016 to Feb., 2017) and the baseline data indicates the ranges of concentrations as: PM10 (63.2 to 90.1  $\mu$ g/m3), PM2.5 (28.2 to 47.4  $\mu$ g/m3), SO2 (7.3 to 32.9  $\mu$ g/m3), NO2 (12.6 to 30.6  $\mu$ g/m3), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion project would be 0.024  $\mu$ g/m3, 0.085  $\mu$ g/m3, 0.10  $\mu$ g/m3, with respect to PM, Cl2, HCl. The resultant concentration of PM is within the National Ambient Air Quality Standards (NAAQS).
- 8. The estimated project cost for expansion of the project is ₹285 Crores. Total capital cost earmarked towards environmental pollution control measures is ₹20 Crores and the recurring cost (operation and maintenance) will be about ₹3.4 Crores/annum. The expenditure towards Corporate Environment Responsibility (CER) for the project would be ₹5 Crores of the project cost as committed by the project proponent. Total employment will be 1545 persons (Regular: 245 + Contractual: 1300) including 128 persons (Regular: 28 + Contractual: 100) after expansion of the project.
- **9.** The project proponent has informed that a case was filed in High court and transferred to NGT (Case no.77/2017 CZ) regarding pollution being caused in the river Chambal due to effluents from the industry. As per NGT order, Grasim Industries Ltd. Chemical Division received MPPCB directions, in compliance of which company has achieved ZLD in March, 2018. As on date no other case is due against the existing project.
- **10.** The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking

EC to M/s Grasim Industries Ltd. (Chemical Division)

that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report and public hearing process. If any part of data/information submitted is found to be false/misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

- 11. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing has been properly addressed in the EIA/EMP report. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance (EC).
- **12.** The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on **20-22 November**, **2019**, wherein the project proponent and their accredited consultant presented the EIA/EMP Report. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR, and **recommended** the project for grant of environmental clearance.
- 13. The Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments there to and hereby accords the environmental clearance under the provisions thereof to the above mentioned proposal of M/s Grasim Industries Ltd. (Chemical Division) for Expansion of Caustic Chlorine Products from 2,70,000 TPA to 4,50,000 TPA of Caustic soda and Value Added Derivatives along with installation of new Chloromethane Plant (Para 2 of Page 1), located at Birlagram, Nagda, District Ujjain, Madhya Pradesh subject to compliance of the followings terms and conditions and environmental safeguards mentioned below:-

#### A. <u>Specific Conditions:</u>

- (i) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, as may be applicable.
- (ii) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.
- (iii) As already committed by the project proponent, ZLD shall be ensured and no waste/treated water shall be discharged outside the premises.
- (iv) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016; Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (v) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous

EC to M/s Grasim Industries Ltd. (Chemical Division)

- emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (vi) Solvent management, if any, shall be carried out as follows company shall undertake waste minimization measures as below:-
  - (a) Reactor shall be connected to chilled brine condenser system.
  - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
  - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.
  - (d) Solvents shall be stored in a separate space specified with all safety measures.
  - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
  - (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- (vii) Odour shall be prevented at the source and effective odour management scheme shall be implemented.
- (viii) Total fresh water requirement shall not exceed 5400 m³/day proposed to be met from Chambal River. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (ix) Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purposes. In any case, no ground water shall be used for the plant.
- (x) The storm water from the premises shall be collected and discharged through a separate conveyance system.
- (xi) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (xii) ETP sludge, process inorganic & evaporation salt shall be disposed through Captive Secured Landfill.
- (xiii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (xiv) The company shall undertake waste minimization measures as below:
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

EC to M/s Grasim Industries Ltd. (Chemical Division)

- (xv) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xvi) As proposed ₹5 Crores shall be allocated for CER. The CER funds shall be utilized for greenbelt development, skill development and check dam construction, as suggested during public hearing. The CER plan shall be completed within a period of two years or before commissioning of the project.
- (xvii) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (xviii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (xix) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xx) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. For continuous discharge the unit shall install pH, TSS, BOD, COD and flow meter at the ETP outlet.
- (xxi) The energy sources for lighting purposes shall preferably be LED based.
- (xxii) Transportation of raw materials/products should be carefully performed using GPS enabled vehicles.
- (xxiii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. PP shall submit the six monthly compliance report to the Regional Office of the Ministry.
- (xxiv) The project proponent shall conduct 3D modeling for risk management and mitigation measures as the flammable and hazardous chemicals are being stored and processed in the Plant. PP shall conduct a study comprise the details of detectors and its locations and outcome of the study shall be implemented and the compliance shall be submitted six monthly to the Regional Office of the Ministry.
- (xxv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- **14.** The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9<sup>th</sup> August, 2018. The said OM is available at the Ministry's website (PARIVESH portal i.e. www.parivesh.nic.in). The grant of Environmental Clearance is further subject to compliance of generic conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9<sup>th</sup> August, 2018.

Cto M/s Grasim Industries Ltd. (Chemical Division)

- **15.** The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, its regional office, Central Pollution Control Board and State Pollution Control Board.
- **16.** The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- **17.** The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
- 18. Concealing factual data or submission of false/fabricated data and failure comply any of the conditions mentioned above mav result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- **19.** 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.
- **20.** 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; Environment (Protection) Act, 1986; Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Madhya Pradesh/Hon'ble NGT and any other Court of Law relating to the subject matter.
- 21. This issues with the approval of the competent authority.

(Ďr,∕R. B. Lal) Scientist 'E'/Additional Director

(डा. आर. बी. लाल)
(Dr. R. B. LAL)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालर
Min.of Environment,Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

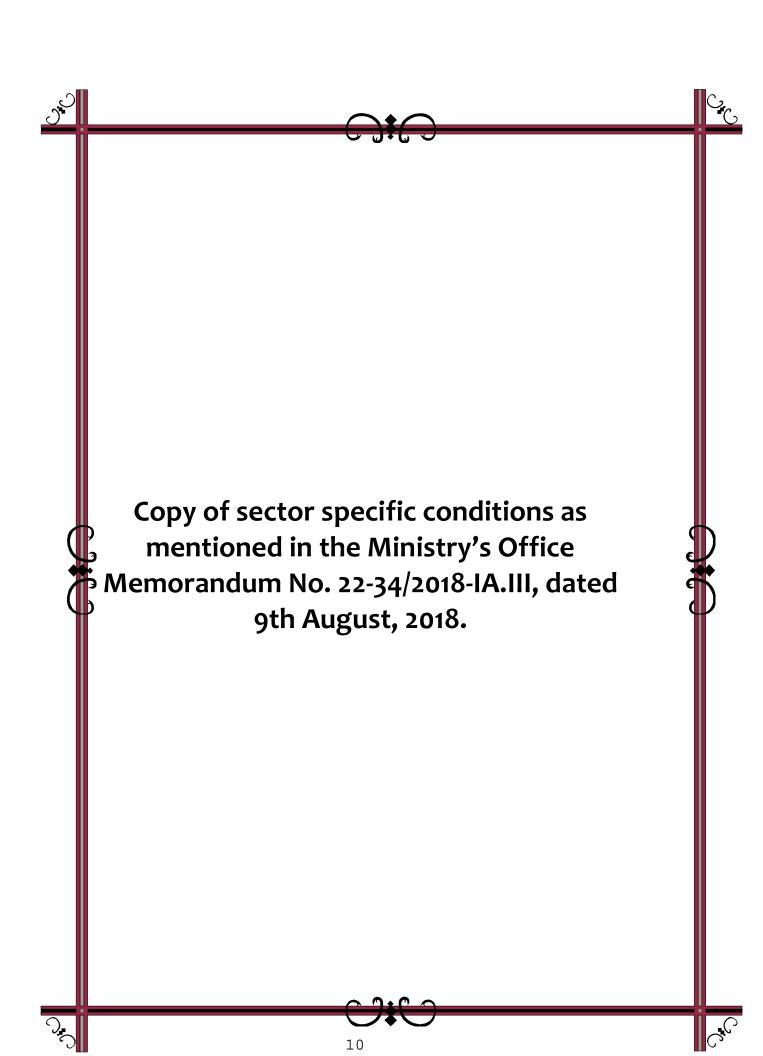
#### Copy to: -

- Principal Secretary, Environment, Forest and Climate Change Department, Govt. of Madhya Pradesh.
- 2. The Principal Chief Conservator of Forests (PCCF), Satpuda Bhawan, Bhopal, Madhya Pradesh.
- 3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32.
- 4. The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal 462 016, Madhya Pradesh.
- 5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi 3.
- 6. Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road,

New Delhi-110011.

- 7. District Collector, Ujjain, Madhya Pradesh.
- 8. Guard File/ Record File/ Monitoring File/ Website of MoEF&CC

(Dr. R. B. Lal) Scientist 'E'/Additional Director



#### ANNEXURE - XX

#### Standard EC Conditions for Pharmaceutical/Chemical Industry sector

(applicable to item S.N. 4(d) - Chlor-alkali industry; 4(e) - Soda ash industry; 5(b) -Pesticides industry and Pesticides specific intermediates; 5(f) - Synthetic organic chemicals industry (dyes & dye intermediates, bulk drugs and intermediates & synthetic rubbers etc) and 5(h) - Integrated paint industry)

#### I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-1 species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

#### II. Air quality monitoring and preservation

- The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.

- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NOx in reference to SO<sub>2</sub> and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be complied with

#### III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

#### IV. Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

#### V. Energy Conservation measures

i. The energy sources for lighting purposes shall preferably be LED based.

#### VI. Waste management

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

#### VII. Green Belt

i. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

#### VIII. Safety, Public hearing and Human health issues

- ii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iv. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- v. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- vi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

#### IX. Corporate Environment Responsibility

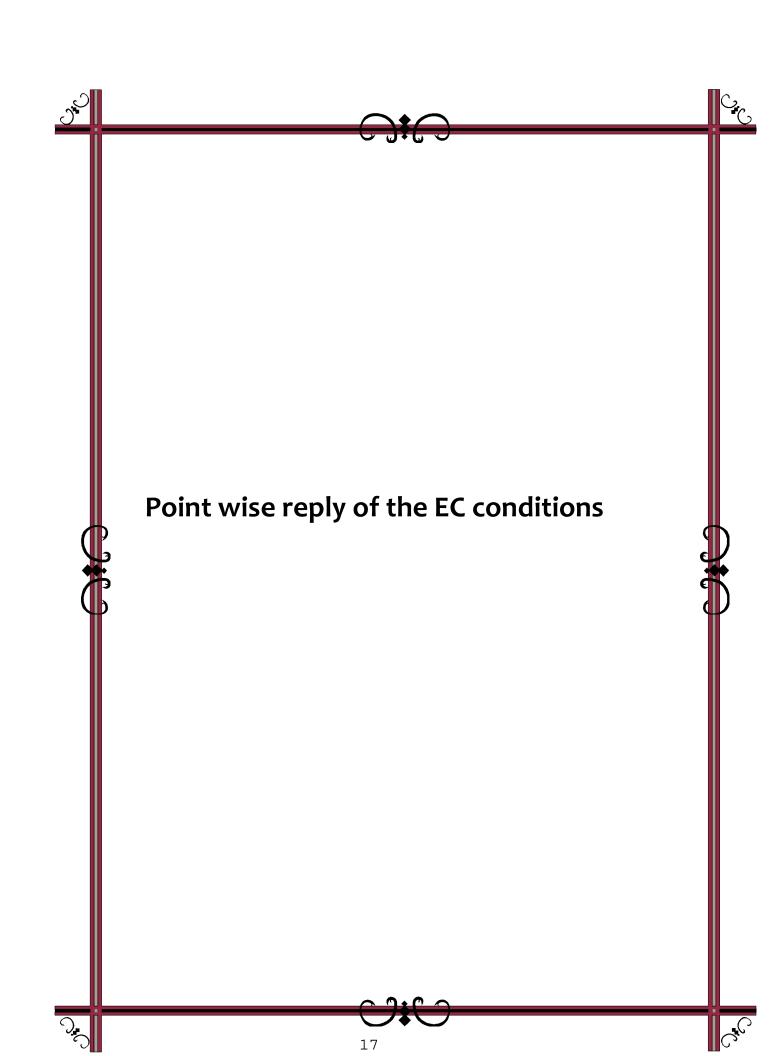
- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other

- purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

#### X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC 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.



Environment Clearance letter number: J-11011/119/2015-IA. II(I) dated 07.01.2020

Period of Compliance: October 2024 to March 2025

Address for Correspondence: Grasim Industries Limited, Villages- Mehatwas, Birlagram, Tehsil- Nagda,

District- Ujjain, Madhya Pradesh

No.	Environmental Clearance Conditions	Compliance Status	
Α	Specific conditions		
(i)	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, as may be applicable.	Noted. The Project shall abide by all orders/judgements issued by Hon'ble Courts, as applicable.	
(ii)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution control Board.	We fully comply with the requirements of the State Pollution Control Board and hold valid consents and authorizations issued by the Madhya Pradesh Pollution Control Board (MPPCB). Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 has been obtained vide Application Receipt No. 1397319 dated 18.09.2024. A copy of the Consent to Operate is enclosed as <b>Annexure 1.</b>	
(iii)	As already committed by the project proponent, ZLD shall be ensured and no waste/treated water shall be discharged outside the premises.	The Project has achieved Zero Liquid Discharge (ZLD) as of March 31, 2018, through the implementation of the following stages:  • Effluent Treatment Plant (ETP) with lamella clarifier  • Brackish Water RO and Sea Water RO  • Multi-Effect Evaporator (MEE)  • Agitated Thin Film Dryer (ATFD)  A detailed note on the Zero Liquid Discharge system is attached as <b>Annexure 2</b> for reference.	
(iv)	Necessary authorization required under the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provision contained in the Rules shall be strictly adhered to.	Hazardous Waste Authorization has been obtained from the Madhya Pradesh Pollution Control Board (MPPCB) and is valid until 31.01.2027. The MPPCB has issued Hazardous Waste Authorization vide Consent No. AWH-55153, Outward No. 114665, dated 01/02/2022, along with Consent to Operate. A Consent for the	

Grasim Industries Limited, (Chemical Division), Nagda (MP)

1 | Page

No.	Environmental Clearance Conditions	Compliance Status
(v)	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and/ or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	secured landfill site has been issued under Consent No. AWH-59588, Outward No. 119560, dated 13.01.2024. Copies of these authorizations are enclosed as <b>Annexure 1A</b> .  To control source emissions and fugitive emissions, M/s. Grasim has installed suitable pollution control devices to meet the prescribed norms and ensure compliance with the National Ambient Air Quality Standards (NAAQS). All necessary precautions have been taken to prevent fugitive emissions, including secure storage arrangements for chemicals.  Gaseous emissions are dispersed through stacks of adequate height, as per CPCB/SPCB guidelines. Regular monitoring of ambient air quality and
		stack emissions is conducted to ensure compliance with prescribed limits. The ambient air quality monitoring and stack emission monitoring
		results for the period from <b>October 2024 to March 2025</b> are provided in <b>Annexure 3 &amp; 4</b> .
		Below is the summary of the pollution measure adopted:

Emissions	Plant Unit	Pollution Control/ Mitigation measures adopted
STACK EMISSIONS		
	Caustic Soda Membrane Cell	<ul> <li>Alkali Scrubbers</li> <li>On-line monitoring sensors are installed</li> <li>Process interlocked pollution control equipment</li> <li>DCS Controlled operations.</li> </ul>
Chlorine Vapors	Stable Bleaching Powder	<ul> <li>Alkali Scrubbers</li> <li>Chlorine feed is controlled and no excess chlorine is fed.</li> <li>Chlorine sensors installed</li> </ul>
	Chlorinated Paraffin	<ul> <li>Alkali Scrubbers</li> <li>Chlorine feed is controlled and no excess chlorine is fed.</li> <li>Chlorine sensors are placed</li> </ul>
Caustic Soda Membrane HCL Vapors Cell		<ul> <li>Water Scrubbers</li> <li>On-line monitoring sensors are installed</li> <li>Pollution control equipment's interlocked with process</li> <li>The entire process is DCS controlled</li> </ul>
	Poly Aluminum Chloride	■ Water Scrubbers for absorption of unreacted HCL

Half Yearly Compliance Report (October, 2024- March, 2025)

**3** | Page

No.	Environm	ental Clearance Conditions	Compliance Status
1	Chlorine & Dust emissions)	Chlorinated Paraffin plant Chlorosulphonic Acid Plant Calcium Chloride Plant Stable Bleaching Powder	<ul> <li>vapors in water</li> <li>Water Scrubbers</li> <li>Chlorosulphonic Acid Plant-Production stopped permanently from July 2023; letter submitted to MPPCB</li> <li>Bag Filters</li> <li>Chlorine feed is controlled &amp; no excess chlorine is fed</li> <li>Dust control systems have been provided at the filling point.</li> <li>De-dusting system is installed at the product filling post to minimize the SPM levels.</li> </ul>
S	SO₃ Vapors	Chlorosulphonic Acid Plant	<ul> <li>Sulphuric acid scrubbers, Chlorosulphonic Acid Plant- Production stopped permanently from October 2023; letter submitted to MPPCB on 02.02.2024.</li> </ul>
FUGITIV	/E EMISSIONS		
н	Cl, Chlorine	<ul> <li>Storage &amp; handling of raw materials, solvents, finished products</li> <li>From equipment's leak valves, flanges, pump seals, compressors, sampling connections, open ended lines</li> </ul>	<ul> <li>Liquid raw materials and intermediates charged into Reactors with pumps or under gravity through closed pipes.</li> <li>Suction Hoods placed near the Man-holes &amp; Charging funnels of Reactors &amp; Filters.</li> <li>All storage tank DGs of low boiling solvents / chemical with Conservation Vents.</li> <li>Vents of HCl storage tanks with a Water filled trap to prevent Acid fumes from escaping out.</li> <li>Mechanical seals to prevent fugitive emission.</li> <li>Storage tanks with level gauge, dyke wall, automated loading and unloading for the chemicals.</li> <li>Plugs, caps and blinds for open ended lines.</li> <li>Closed loop sampling systems.</li> </ul>
CO₂ aı	nd other gases	Vehicles, Open surfaces, ETP, retention ponds	<ul> <li>Roads within the premises concreted / paved to avoid vehicular emissions.</li> <li>All transportation vehicles carry a valid PUC (Pollution under Control) Certificate.</li> <li>Proper servicing &amp; maintenance of vehicles.</li> <li>Regular sweeping of all the roads &amp; floors to avoid particulate matter dispersion.</li> </ul>
(vi) C	alvent manage	ant if any shall be sami-1	out as No solvent is being used in any of the new section
f ( c ( (	follows company measures as below (a) Reactor shall condenser system (b) Reactor and	l be connected to chilled	brine

Grasim Industries Limited, (Chemical Division), Nagda (MP)

Half Yearly Compliance Report (October, 2024- March, 2025)

No	Environmental Clearance Conditions			Compliance	ce Status
	<ul> <li>(c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.</li> <li>(d) Solvents shall be stored in a separate space specified with all safety measures.</li> <li>(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</li> <li>(f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</li> </ul>				
(vii		orevented at the sou nent scheme shall be	implemented.	Odour prevention m implemented at the solodour management plan compliance.	
(vii	m³/day propose permission in th	er requirement shall d to be met from Cha nis regard shall be o latory authority.	ambal River. Prior	The Total fresh water requ 5400 m³/day and is met fr The copy of the water Chambal River provided department is enclosed as	om Chambal River. drawl permission from d by Water Resource
(ix	Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purposes. In any case, no ground water shall be used for the plant.			Rainwater harvesting structure been provided across the areas to reduce dependent water for the industrial proundwater is being use plant.	staff colony and nearby lency on fresh surface process. Additionally, no
(x)	The storm water from the premises shall be collected and discharged through a separate conveyance system.			A separate stormwater of been implemented to stormwater safely, contamination with other	collect and discharge ensuring no cross-
(xi	Hazardous chemicals shall be stored in tanks, tanks farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.		Complied. Hazardous che tanks, tanks farms, drur arresters has been provi solvent through pumps. The details of Hazardous given below:	emicals being stored in ms, carboys etc. Flame ded on tank farm, and	
	Unit	Chemicals	Form of Material (Solid/Liquid/Gas)	Nature of Material (Corrosive/Flammable etc.)	Type of Storage
	Membrane cell Caustic Soda	Sodium Chloride (common salt)	Solid	Corrosive	Shed
		Soda Ash Barium Carbonate	Solid Solid	Corrosive NA	Bag
		Sodium Sulphite	Solid	Corrosive	Bag Bag
		30dium 3dipnite	30110	Corrosive	Dag

Grasim Industries Limited, (Chemical Division), Nagda (MP)

4 | Page

No.	Enviror	Environmental Clearance Conditions		Complian	ce Status	
		Caustic Soda	Liquid	Corrosive	MS tank	
		Hydrochloric Acid	Liquid	Corrosive	MSRL Tank	
		Sulphuric Acid	Liquid	Corrosive	MSRL	
	Stable leaching	Liquid chlorine	Liquid	Corrosive	MS tank	
	<b>Powder Unit</b>	Hydrated lime	Solid	Corrosive	Bag	
		Caustic Soda	Liquid	Corrosive	Tank	
		Chlorine	Gas	Corrosive	Pipeline	
			Form of Material	Nature of Material		
	Unit	Chemicals	(Solid/Liquid/Gas)	(Corrosive/Flammable	Type of Storage	
				etc.)		
	Poly Aluminium	Hydrochloric Acid	Liquid	Corrosive	MSRL Tank	
	Chloride	Sulphuric Acid	Liquid	Corrosive	MSRL Tank	
		Chlorine gas	Gas	Corrosive	Pipeline	
		Caustic Soda	Liquid	Corrosive	MS Tank	
	Chlorosulphonic	Hydrochloric acid	Liquid	Corrosive	Production	
	Acid	Sulphuric Acid	Liquid	Corrosive	discontinued	
		Sulphur Trioxide	Gas	Corrosive		
	Calcium chloride	HCl (33 %)	Liquid	Corrosive	MSRL Tank	
(xii)	(xii) ETP Sludge, process inorganic & evaporation salt shall be disposed through Captive Secured Land fill.			Hazardous waste authorize from MPPCB, and the waste in accordance with pressludge, process inorganicare securely disposed consecured landfill, as per that the secured landfill site reference.	ste is being disposed of scribed guidelines. ET is, and evaporation salt of through the captive condition. A photo of	of P :s e of

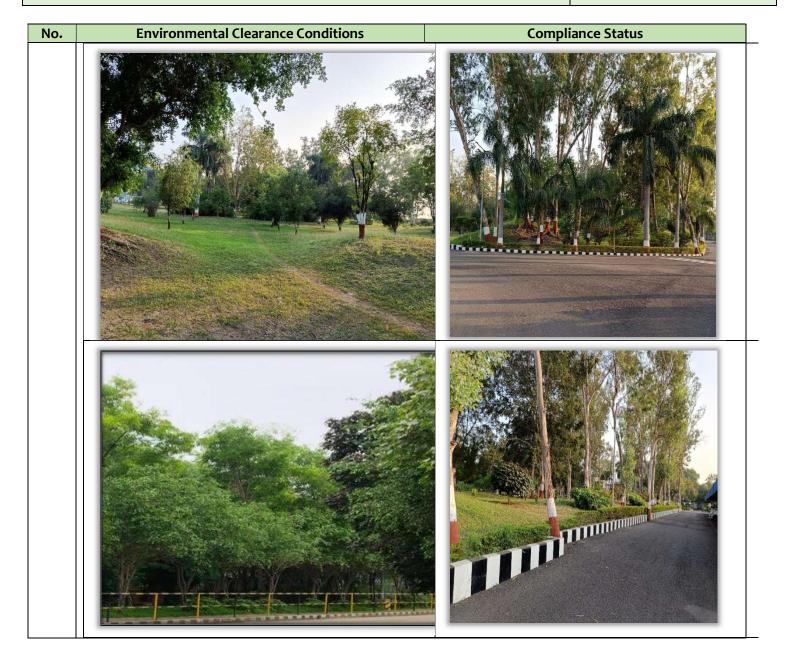
No.	Environmental Clearance Conditions	Compliance Status
(xiii)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA)' 1989.	Compliance with the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 (as amended) is being ensured at all levels. Additionally, the transportation of hazardous chemicals is carried out strictly in accordance with the relevant provisions of the Motor Vehicle Act (MVA), 1989.
(xiv)	<ul> <li>The company shall undertake waste minimization measures as below: -</li> <li>a) Metering and control of quantities of active ingredients to minimize waste.</li> <li>b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> <li>c) Use of automated filling to minimize spillage.</li> <li>d) Use of closed feed system into batch reactors.</li> <li>e) Venting equipment through vapor recovery system.</li> <li>f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.</li> </ul>	The following waste minimization measures have been implemented at the facility:  a) All raw materials are introduced into the system through a metering and control system to reduce

No	Environmental Clearance Conditions	Compliance Status
		e) A vapor recovery system has been installed—paraffin vapors from the CP plant are effectively recovered using condensers. f) High-pressure jet cleaning is routinely practiced in the ZLD plant, specifically for cleaning the calendria, thereby reducing wastewater generation.
(xv	The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall as per the CPCB guidelines in consultation with the State Forest Department.	A well-developed greenbelt spanning 22.52 hectares, accounting for approximately 38.5% of the total area (58.5 acres) of the Grasim complex, has been established and is actively maintained through consistent plantation and upkeep efforts. The greenbelt comprises a mix of pollutiontolerant, native, ornamental, and special-purpose tree species, carefully selected to enhance environmental quality and aesthetic value. The plantation includes:  Species Known for Pollution Tolerance and Rapid Growth:  Silver Oak (Grevillea robusta) Subabul (Leucaena leucocephala) Ashok (Polyalthia longifolia) Akash Neem (Millingtonia hortensis) Casuarina species Indigenous and Shade-Providing Trees Neem (Azadirachta indica) Banyan (Ficus benghalensis) Sita Ashok (Saraca indica) Arjun (Terminalia arjuna) Shisham (Dalbergia sissoo) Karanj (Pongamia pinnata) Ornamental and Flowering Trees: Gulmohar (Delonix regia) Amaltas (Cassia fistula)
		,

No.	Environmental Clearance Conditions	Compliance Status
		Bottle Brush (Callistemon spp.)
		<ul> <li>Sawani (Lagerstroemia spp.)</li> </ul>
		Special Use and Miscellaneous Species
		Sandalwood (Santalum album)
		Elephant Apple (Dillenia indica)
		<ul> <li>Pangra (Erythrina spp.)</li> </ul>
		<ul> <li>Sausage Tree (Kigelia pinnata)</li> </ul>
		Bamboo (Bambusa spp.)
		Chiku (Manilkara zapota)
		Glimpse of plantation and green belt in the complex is shown as below:
		complex is shown as below:







Half Yearly Compliance Report (October, 2024- March, 2025)

#### No. Environmental Clearance Conditions











(xvi) As proposed Rs. ₹5 Crores shall be allocated for CER. The CER funds shall be utilized for greenbelt development, skill development and check dam construction, as suggested during public hearing. The CER plan shall be completed within a period of two years or before commissioning of the project.

As per the proposal, the Chloromethane project has not yet been expanded by Grasim Industries Ltd. (Chemical Division), Nagda. However, the expenditure incurred on CER activities by the company from October 2024 to March 2025 is outlined below.

The CER plan will be completed within two years or before the commissioning of the project.

		Year-2024-25		Total Amount	
S. No.	Activity Heads	October 24 to December 24	January 25 to March 25	(Rs. in Lacs)	
1.	Education	4.085	0.00	4.085	
2.	Health	0.60	2.07	2.67	
3.	Sustainable Development	0.00	2.79	2.79	
4.	Infrastructure	3.790	4.695	8.485	
5.	Social Development	0.80	0.45	1.25	

Grasim Industries Limited, (Chemical Division), Nagda (MP)

Half Yearly Compliance Report (October, 2024- March, 2025)

**Environmental Clearance Conditions Compliance Status** No. **GRAND TOTAL** 9.275 10.005 19.28 Glimpse of CER activities conducted by Grasim is shown below: AMLAVDIYA

Half Yearly Compliance Report (October, 2024- March, 2025)

### No. **Environmental Clearance Conditions Compliance Status** ४०० नागरिकों ने कराया स्वास्थ्य परीक्षण For the DG sets, emission limits and the stack height Two DG sets of 2000 KVA capacity each are (xvii) shall be in conformity with the extant regulations and installed for emergency power backup. Both are the CPCB guidelines. Acoustic enclosure shall be provided with acoustic enclosures to minimize provided to DG set for controlling the noise pollution. noise emissions. Stack height and emission limits are in full compliance with applicable regulations and CPCB guidelines. DG set stack emission results and noise report are provided in Annexure 4. The unit shall make the arrangement for protection of Adequate arrangement for protection of possible (xviii) possible fire hazardous during manufacturing process fire hazards during manufacturing process in

Grasim Industries Limited, (Chemical Division), Nagda (MP)

Half Yearly Compliance Report (October, 2024- March, 2025)

No.	Environmental Clearance Conditions	Compliance Status		
	in material handling. Firefighting system shall be as per	material handling is being made in the industry.		
	the norms.	Few precautions are as follows:		
		Flame arrestors are provided at various places		
		in the system.		
		> Sufficient number of Fire Extinguishers DCP		
		type and CO2 type and Fire buckets are posted		
		at many locations for fire control. Besides this,		
		we have a Fire tender of adequate capacity		
		with our Fire Fighting Department.		
		Fire Hydrant Points are also located around the		
		plant.		
		Employees are regularly trained in firefighting.		

Photographs of Firefighting system installed.







Half Yearly Compliance Report (October, 2024- March, 2025)

#### No. Environmental Clearance Conditions











(xix) Storage of Raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

All raw materials are stored in designated, covered godowns to ensure proper protection and safety. The storage details of the raw materials are provided in point no. XI of the specific conditions.

(xx) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. For continuous discharge the unit shall install pH, TSS, BOD, COD and flow meter at the ETP outlet.

Continuous online (24x7) monitoring system for stack emissions has been installed and same is connected to MPPCB & CPCB server.

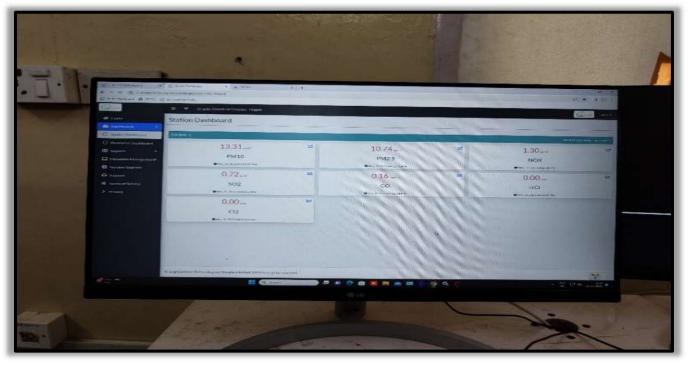
S. No.	Description of Stacks attached to	Pollutants	
1.	Sodium Hypo Stack; Unit	Cl <sub>2</sub>	
	1 Caustic Soda		
2.	HCl Stack; Unit 1 Caustic	HCl	
	Soda		
3.	Sodium Hypo Stack; Unit	$Cl_2$	
	2 Caustic Soda		

Grasim Industries Limited, (Chemical Division), Nagda (MP)

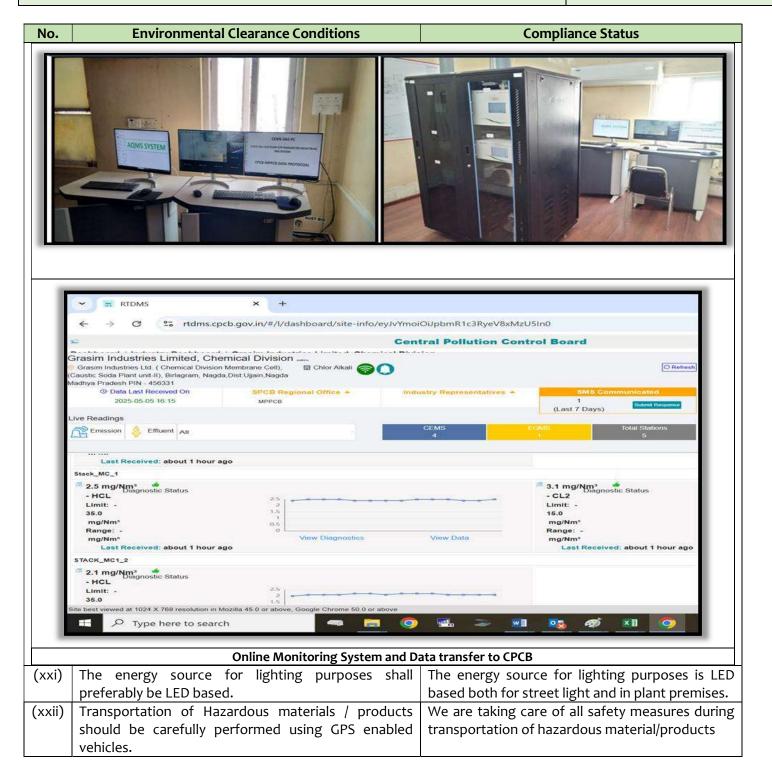
Half Yearly Compliance Report (October, 2024- March, 2025)

No.	Environmental Clearance Conditions	Compliance Status		
		4.	HCl Stack; Unit 2 Caustic	HCl
			Soda	
		As the unit operates on a Zero Liquid Discharge		
		(ZLD) system, no effluent is discharged outside		
		the premises. In accordance with the condition,		
		web cameras with night vision capability and flow		
		meters have been installed in internal		
		channels/drains to monitor effluent handling		
		within the plant.		
		Photog	graphs showing the in:	stalled online
		monitoring systems are provided below.		
Online Monitoring System				

#### Online Monitoring System



Half Yearly Compliance Report (October, 2024- March, 2025)



Grasim Industries Limited, (Chemical Division), Nagda (MP)

No.	Environmental Clearance Conditions	Compliance Status
(xxiii)	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per the Factories Act.	Complied. A safe and healthy working environment is a key priority at Grasim Industries Ltd. Regular health check-ups are conducted for workers and staff, and all records are maintained
	PP shall submit the six-monthly compliance report to the Regional Office of the Ministry.	<ul> <li>in accordance with the Factories Act.</li> <li>To promote occupational health and safety, the company is committed to:         <ul> <li>Continuously developing and maintaining safe work practices.</li> <li>Identifying and addressing operational and occupational hazards.</li> <li>Creating awareness on preventive health and safety measures.</li> </ul> </li> <li>Form 32 (Medical Fitness Certificate) is attached as Annexure 6 for reference.</li> <li>The six-monthly compliance reports are being submitted regularly to the Regional Office of MoEF&amp;CC as per the requirement</li> </ul>
(xxiv)	The project proponent shall conduct 3D modeling for risk management and mitigation measures as the flammable and hazardous chemicals are being stored and processed in the Plant. PP shall conduct a study comprise the details of detectors and its locations and outcome of the study shall be implemented and the compliance shall be submitted six monthly to the Regional Office of the Ministry.	3D Risk Assessment Modeling has been conducted for the plant, focusing on risk management and mitigation measures related to the storage and processing of flammable and hazardous chemicals. All recommendations from the study have been implemented. A detailed study of the detectors and their locations has also been carried out, and actions based on the findings have been implemented. Compliance reports, including these details, have been submitted every six months to the Regional Office of the Ministry and will continue to be submitted in the future.
(xxv)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Adequate space inside the plant premises is earmarked for parking of vehicles for raw materials and finished products, and no parking is being allowed outside on public places.  The photographs of parking spaces are given below:

No.	Environmental Clearance Conditions	Compliance Status
	Parking for	vehicles
14.	The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018. The said OM is available at the Ministry's website (PARIVESH portal i.e., www.parivesh.nic.in). The grant of Environmental Clearance is further subject to compliance of generic conditions as mentioned in the Ministry' Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018.	Duly noted. Compliance with the sector-specific conditions outlined in the Ministry's Office Memorandum No. 22-34/2018-IA.III dated 9th August 2018 has been appropriately addressed in this report. Compliance with the generic conditions mentioned in the same memorandum has also been provided in the subsequent section, following the specific conditions.
15.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, its regional office, Central Pollution Control Board and State Pollution Control Board.	Duly noted. The six-monthly compliance report is being submitted to the concerned offices, including the Ministry of Environment, Forest and Climate Change (MoEF&CC), the Regional Office, the Central Pollution Control Board (CPCB), and the State Pollution Control Board (SPCB).
16.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/Information/monitoring reports.	We acknowledge that the Regional Office of the Ministry will monitor compliance with the stipulated conditions. The project authorities will fully cooperate with the Regional Office officers by furnishing all required data, information, and monitoring reports in a timely and appropriate manner.
17.	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may	We acknowledge the Ministry's right to impose additional conditions if required and confirm that the project proponent will implement these in a timely manner. We understand that

No.	Environmental Clearance Conditions	Compliance Status
	revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	environmental clearance may be revoked or suspended if compliance is unsatisfactory.
18.	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.	We acknowledge that concealing factual data, submitting false or fabricated information, or failing to comply with any stated conditions may result in the withdrawal of this clearance and could lead to action under the Environment (Protection) Act, 1986.
19.	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.	We acknowledge that any appeal against this environmental clearance may be filed with the National Green Tribunal, if desired, within 30 days, as prescribed under Section 16 of the National Green Tribunal Act, 2010.
20.	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; Environment (Protection) Act, 1986; Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Madhya Pradesh/Hon'ble NGT and any other Court of Law relating to the subject matter.	Duly Noted.
21.	This issues with the approval of the competent authority.	Duly Noted.
	Sector specific conditions as per MOEFCC OM 09.08.2018	
ı	Statutory compliance	
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for nonforest purpose involved in the project	This condition is not applicable to the project, as it does not involve any diversion of forest land for non-forest purposes.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	This condition is not applicable to the project, as it does not fall within or impact any wildlife-protected area requiring clearance from the National Board for Wildlife.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be	A Site-Specific Conservation Plan and Wildlife Management Plan has been prepared and done approved by Chief Wildlife Warden which has been duly approved by the Chief Wildlife Warden. A copy of the approval letter is attached as <b>Annexure-7</b> .

Grasim Industries Limited, (Chemical Division), Nagda (MP)	
	19   Page

No.	Environmental Clearance Conditions	Compliance Status
	implemented in consultation with the State Forest Department.  The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-1 species in the study area)	The recommendations outlined in the approved Site-Specific Conservation Plan and Wildlife Management Plan will be implemented in close coordination with the State Forest Department. An implementation report will also be included with the six-monthly compliance report.
iv.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Industry is complying the conditions laid down by State Pollution Control Board and has valid consents & authorization issued by MP Pollution control board; Necessary Consents has been obtained from MPCB under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981. The copy of consent to Operate is enclosed as Annexure 1.
V.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Hazardous Waste Authorization is obtained from MP Pollution Control Board and has validity up to 31.01.2027. MP Pollution Board has issued Hazardous Waste Authorization vide consent No. AWH-55153, Outward No:114665, dated 01/02/2022 along with Consent to operate and consent no. AWH-59588 outward no. 119560 dated 13.1.2024 for secured land fill site. The same is enclosed as <b>Annexure 1A.</b>
vi.	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	The Company is strictly complying with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All the relevant provision of Motor Vehicle Act (MVA), 1989 is being strictly complied during the transportation of hazardous chemicals.
II.	Air Quality Monitoring and Preservation	
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and	An online monitoring system has been successfully implemented for the existing unit, with connectivity to both MPPCB and CPCB servers. This system provides continuous emission monitoring for the following stacks:
	calibrate this system from time to time according to equipment supplier specification through labs	S. Description of Stacks No. attached to
	recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	1. Sodium Hypo Stack; Cl <sub>2</sub> Unit 1 Caustic Soda
		2. HCl Stack; Unit 1 Caustic HCl Soda

Grasim Industries Limited,	(Chemical Division	), Nagda (	MP)
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ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.  iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PMto and PM2.5 in reference to PM emissions), and SO2 and NOx emissions) (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.  iv. To control source and the fugitive emissions, suitable pollution control devices se.g. scrubber suitable pollution control devices e.g. scrubber and pollution control devices e.g. scrubber suitable pollution control devices e.g. scrubber and pollution control devices e.g. scrubber suitable pollution control devices e.g. scrubber and pollution control devices e.g. scrubber suitable pollution control devices e.g. scrubber and pollution control dev	No.	Environmental Clearance Conditions		Compliance Status
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NABL-accredited laboratory, ensuring th accuracy and reliability of the monitoring equipment. Photographs of the online monitoring system are provided under point no. (xx) of this specific condition.  ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.  iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for commonly-friterion parameters relevant to the main pollutants released (e.g., PMto and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.  Ambient Air Quality Monitoring Station  iv. To control source and the fugitive emissions, suitable pollution control devices e.g. scrubber			4.	· · · · · · · · · · · · · · · · · · ·
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	iv.			<del>_</del>
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		prescribed norms and/or the NAAQS. Sulphur content		e being installed to meet the prescribe
should not exceed 0.5% in the coal for use in coal fired norms and/or the NAAQS.		should not exceed 0.5% in the coal for use in coal fired	norms	and/or the NAAQS.
boilers to control particulate emissions within Sulphur content in coal should not exceed 0.5%		·		
permissible limits (as applicable). The gaseous However, this provision is not applicable to the emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.		emissions shall be dispersed through stack of		

No.	Environmental Clearance Conditions		Compliance Status	
			premises. The process operates on alternative energy sources The gaseous emissions are being/will be dispersed through stack of adequate height as per CPCB/SPCB guidelines. Stack emission monitoring results October 2024 to March 2025 has been Provided in <b>Annexure 4</b> .	
V.	_	terials, coal etc. shall be either covered areas to prevent dust ugitive emissions.	All raw materials are stored in designated closed godown.  To control the fugitive emissions suitable pollution control devices are being/will be installed to meet the prescribed norms and/or the NAAQS. During handling of chemicals, we have provided all the necessary arrangements to avoid fugitive emission. All the precautionary measures have been taken for storage of raw materials. Pollution Control/ Mitigation measures adopted by M/s. Grasim to control fugitive emissions are given below:	
	Fugitive	Plant Unit	Pollution Control/ Mitigation measures	
	HCl, Chlorine	<ul> <li>Storage &amp; handling of raw materials, solvents, finished products</li> <li>From equipment's leak valves, flanges, pump seals, compresso sampling connections, open enclines</li> </ul>	<ul> <li>Filters.</li> <li>All storage tanks of low boiling solvents / chemical with Conservation Vents.</li> <li>Vents of HCl storage tanks with a Water filled trap to prevent Acid fumes from escaping out.</li> <li>Mechanical seals to prevent fugitive emission.</li> <li>Storage tanks with level gauge, dyke wall, automated loading and unloading for the chemicals.</li> <li>Plugs, caps and blinds for open ended lines.</li> <li>Closed loop sampling systems.</li> </ul>	
	CO₂ and other gases	Vehicles, Open surfaces, ETP, retention ponds	<ul><li>Roads within the premises concreted / paved to avoid vehicular emissions.</li><li>All transportation vehicles carry a valid</li></ul>	

Grasim Industries Limited, (Chemical Division), Nagda (MP)	
	<b>22</b>   Page

No.	Environmen	tal Clearance Conditions	Compliance Status
		From Hydrochlorination Rea	PUC (Pollution under Control) Certificate.  Proper servicing & maintenance of vehicles.  Regular sweeping of all the roads & floors to avoid particulate matter dispersion.  All vents after guard condenser are
	Chloromethane traces, Methanol traces and HCl	_	ictor, (VRC Unit) where it is incinerated HCL
vi.	Manufacturing Indus	tandards for Organic Chemicals stry issued by the Ministry vide 21st July, 2010 and amended from followed.	Compliance with the National Emission Standards for the Organic Chemicals Manufacturing Industry, as per G.S.R. 608(E) dated 21st July 2010 and subsequent amendments, is being ensured and will continue to be maintained
vii.		nt Air Quality Emission Standards y vide G.S.R. No. 826(E) dated 16th Il be complied with.	The National Ambient Air Quality Standards (NAAQS) are being fully complied with. Quarterly Ambient Air Quality (AAQ) monitoring results have been conducted and are provided in <b>Annexure-3</b> .
III	Water quality Monit	oring and Preservation	
i.	The project proponer monitoring of efflu camera with night vis the channel/drain car	nt shall provide online continuous ent, the unit shall install web sion capability and flow meters in rying effluent within the premises the projects achieving ZLD)	Online continuous monitoring of effluent is being carried out. To ensure Zero Liquid Discharge (ZLD), the unit has installed web cameras with night vision capability and flow meters in all channels and drains carrying effluent within the premises. A detailed note on Zero Liquid Discharge is attached as <b>Annexure-2.</b>
ii.	Liquid Discharge waste/treated water	d by the project proponent, Zero shall be ensured and no shall be discharged outside the in case of the projects achieving	Zero Liquid Discharge has been fully implemented, and no waste or treated water is discharged outside the premises. A detailed note on Zero Liquid Discharge is attached as <b>Annexure-2</b> .
iii.	prescribed under the	ge shall conform to the standards Environment (Protection) Rules, d by the State Pollution Control Consent under the Air/Water Act, ringent.	The Plant is operating on Zero liquid discharge; hence no such effluent is discharged outside the plant.
iv.	proposed quantity o	equirement shall not exceed the r as specified by the Committee. I be obtained from the concerned CGWA in this regard.	As of now the fresh water consumption is approx. 2574 KLD. Permission for water drawl from Chambal River given by Water resource

Grasim Industries Limited, (Chemical Division), Nagda (MP)	

No.	Environmental Clearance Conditions	Compliance Status
		Department, Ujjain dated 1-06-2006 is attached as <b>Annexure 5.</b>
٧.	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	The process effluent and wastewater are strictly prevented from mixing with stormwater. Stormwater from the premises is collected and discharged through a separate conveyance system.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Rainwater harvesting systems have been implemented across the area to recharge groundwater and also to utilize the collected rainwater for plant operations. As a responsible industry, we have installed six rainwater harvesting structures in the staff colony and surrounding villages.
vii.	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	The DG sets has been equipped with suitable pollution control devices and the stack height are / will be in conformity with the extant regulations and the CPCB guidelines.
IV	Noise monitoring and prevention	
i.	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Acoustic enclosure is provided to DG set of the industry for controlling the noise pollution.
ii.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	The overall noise levels in and around the plant area is being/will be kept well within the standards. Adequate noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation in the industry has been provided.
iii.	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	The ambient noise levels follow the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time. The results of quarterly noise monitoring for different locations are shown below and also attached as <b>Annexure 9</b> .
V	Energy conservation measures	
i.	The energy sources for lighting purposes shall preferably be LED based.	Duly Noted. The energy source for lighting purposes is LED based both for street light and in the plant premises.
VI	Waste Management	
i.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Flame arresters have been provided on the tank farm, and solvents are stored and handled through pumps. The details of hazardous chemical storage are provided in Point No. (xi) of the specific condition.

Grasim Industries Limited, (Chemical Division), Nagda (MP)	
	<b>24</b>   Page

Half Yearly Compliance Report (October, 2024- March, 2025)

No.	Environmental Clearance Conditions	Compliance Status
ii.	Process organic residue and spent carbon, if any, shall	Hazardous waste authorization being obtained
	be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to	from MPPCB and waste disposed as per prescribed guidelines.
	the TSDF.	preseribed guidelines.
iii.	The company shall undertake waste minimization measures as below: - a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	The industry has taken following waste minimization measures- a) All the raw materials are fed in the system through metering system to minimize the waste. Chlorine feed is controlled and no excess chlorine is fed. b) Hydrochloric acid is being used as raw material in Chlorosulphonic acid plant, Polyaluminium Chloride plant and Calcium Chloride plant. Water Scrubber are used for absorption of HCl vapours in water is used in production of HCl. c) The automated system has been implemented in all the processes. d) The closed feed system has been implemented in all the processes. e) Vapor recovery system is installed; Paraffin vapour is being recovered in CP plant using condensers. f) High Pressure Jet cleaning practice is being
VII	Greenbelt	adopted in ZLD plant to clean calendria.
i.	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Regular plantation activities have been done in the Grasim complex. The list of plant species developed in the greenbelt is provided below: Species Known for Pollution Tolerance and Rapid Growth:  • Silver Oak (Grevillea robusta)  • Subabul (Leucaena leucocephala)  • Ashok (Polyalthia longifolia)  • Akash Neem (Millingtonia hortensis)  • Casuarina species Indigenous and Shade-Providing Trees  • Neem (Azadirachta indica)  • Banyan (Ficus benghalensis)  • Sita Ashok (Saraca indica)  • Arjun (Terminalia arjuna)

Grasim Industries Limited, (Chemical Division), Nagda (MP)

No.	Environmental Clearance Conditions	Compliance Status
		Shisham (Dalbergia sissoo)
		Karanj (Pongamia pinnata)
		Ornamental and Flowering Trees:
		Gulmohar (Delonix regia)
		Amaltas (Cassia fistula)
		Jacaranda species
		Champa (Plumeria spp.)
		Bottle Brush (Callistemon spp.)
		Sawani (Lagerstroemia spp.)
		Special Use and Miscellaneous Species
		Sandalwood (Santalum album)
		Elephant Apple (Dillenia indica)
		Pangra (Erythrina spp.)
		Sausage Tree (Kigelia pinnata)
		Bamboo (Bambusa spp.)
		Chiku (Manilkara zapota)
		Glimpse of plantation and green belt in the
		complex is shown at point no. (xv) of specific
VIII	Safety, Public hearing and Safety issues	condition
i.	Emergency preparedness plan based on the Hazard	The Emergency preparedness plan and Disaster
	identification and Risk Assessment (HIRA) and Disaster	Management Plan is being/will be implemented in
	Management Plan shall be implemented.	the Grasim Industry Limited.
ii.	The unit shall make the arrangement for protection of	Adequate arrangement for protection of possible
	possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per	fire hazards during manufacturing process in material handling is made in the industry. Few
	the norms.	precautions are as follows:
		Flame arrestors are provided at various places
		in the system.
		Sufficient number of Fire Extinguishers DCP type and CO2 type and Fire buckets are posted
		at many locations for fire control. Besides this,
		we have a Fire tender of adequate capacity with
		our Fire Fighting Department.
		Fire Hydrant Points are also located around the plant.
		Employees are regularly trained in firefighting.
iii.	The PP shall provide Personal Protection Equipment	The Personal Protection Equipment (PPE) as per
	(PPE) as per the norms of Factory Act.	the norms of Factory Act are provided to the
		employees by Grasim Industry Limited.

Grasim Industries Limited, (Chemical Division), Nagda (MP)	
	<b>26  </b> Page

No.	Environmental Clearance Conditions	Compliance Status
iv.	Training shall be imparted to all employees on safety	Requisite training on safety and health aspects of
	and health aspects of chemicals handling. Pre-	chemical handling is being provided to all
	employment and routine periodical medical	employees.
	examinations for all employees shall be undertaken on	Routine periodical medical examinations are also
	regular basis. Training to all employees on handling of	conducted regularly for all staff. The fitness
	chemicals shall be imparted.	certificate (Form-32) is attached as <b>Annexure-6</b> .
		The images of the training sessions are provided
		below.

Half Yearly Compliance Report (October, 2024- March, 2025)

# **Environmental Clearance Conditions Compliance Status** No. **Training programs**

No.	Environmental Clearance Conditions	Compliance Status
		30/99/2024 16/21
V.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	During the construction phase of the project, provisions were made for housing the construction labor on-site, including all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, and a creche. These facilities were provided in the form of temporary structures, which will be re-implemented as needed during future construction activities.
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Healthy & Safe working environment for employees is the prime concern of the company. Regular health check-up of workers and management staff is being done and records are being maintained.
		Grasim Industries Ltd. commits to create & maintain safe & healthy work environment for employees, against hazards & risks through:  ➤ Continuously developing & maintaining safe work practices.

No.	Environmental Clearance Conditions	Compliance Status
		<ul> <li>Focusing on operational &amp; occupational hazards &amp; risks.</li> <li>Creating awareness about preventive health &amp; safety measures.</li> </ul>
vii.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places	Adequate space inside the plant premises is earmarked for parking of vehicles for raw materials and finished products, and no parking is being allowed outside on public places.  The photographs of parking spaces are given at point no. (xxv) of specific condition.
IX	Corporate Environmental Responsibility	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.111 dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Noted.
ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Duly noted. The company has a well-laid-down environmental policy, duly approved by the Board of Directors, for the industry. The policy includes standard operating procedures to ensure proper checks and balances and to address any infringements, deviations, or violations of environmental, forest, or wildlife norms and conditions. A defined system for reporting such issues to shareholders and stakeholders is also in place. The copy of the board resolution in this regard will be submitted to the MoEF&CC as part of the six-monthly report.
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Separate environmental cell has been developed in the industry having a team of qualified personnel. The Hierarchy of EMS is given below.  EMS Hierarchical System  Domestic chlore alkali business  SBU CEO  Unit Head  Head Business Environment Cell  Environment Professionals  Department /Section Head
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the	An action plan for implementing the Environmental Management Plan (EMP) and

No.	Environmental Clearance Conditions	Compliance Status
V.	company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.  Self-environmental audit shall be conducted annually.	environmental conditions, along with a responsibility matrix, has been prepared and duly approved by the competent authority. Year-wise funds earmarked for environmental protection measures are kept in a separate account and are not diverted for any other purpose. The progress of the implementation of the action plan is reported year-wise to the Ministry/Regional Office along with the Six-Monthly Compliance Report.  Duly Noted
	Every three years third party environmental audit shall he carried out.	The Self environmental audit is conducted annually.  The recent Audit is being conducted by JM EnviroNet Pvt. Ltd, in June 2024.  The conclusion report of JM EnviroNet Pvt. Ltd Audit is attached as <b>Annexure 10</b> .
i.	Miscellaneous  The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed	Grasim Industry Limited has advertised in local newspaper regarding the receipt of EC from MoEF&CC. The copy of newspaper advertisement is enclosed below. The copy of EC has been uploaded on the Company's website. (www.grasim.com)
	PUBLIC NOTICE Public at large is hereby informed that M's Grasim Industries Lid. (Chemical Division) has been granted Environmental Clearance for Seven granted Environmental Clearance for New Other Chemical States of Seven Grasim Industries and Seven Grasim Industries Lid. (Chemical Division) has been granted Environmental Clearance for New Other Chemical States on White Industries	Public Metter  Public
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government	The copies of environmental clearance are being submitted to the concerned offices.

No.	Environmental Clearance Conditions	Compliance Status
	who in turn has to display the same for 30 days from the date of receipt.	
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	The status of compliance with the stipulated environmental clearance conditions, including the results of monitored data, has been uploaded on the company's website. This information will be updated on a half-yearly basis.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	The display board showing criteria pollutants level namely; PM10, SO2, NOx is located at the convenient location for disclosure to the public, and also put on the company's website. The photographs of the same is shown below:
		Display board showing criteria pollutants
٧.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	The six-monthly reports on the status of compliance with the stipulated environmental conditions have been submitted on the Ministry of Environment, Forest and Climate Change's Environment Clearance Portal (Parivesh Portal 2.0).

Half Yearly Compliance Report (October, 2024- March, 2025)

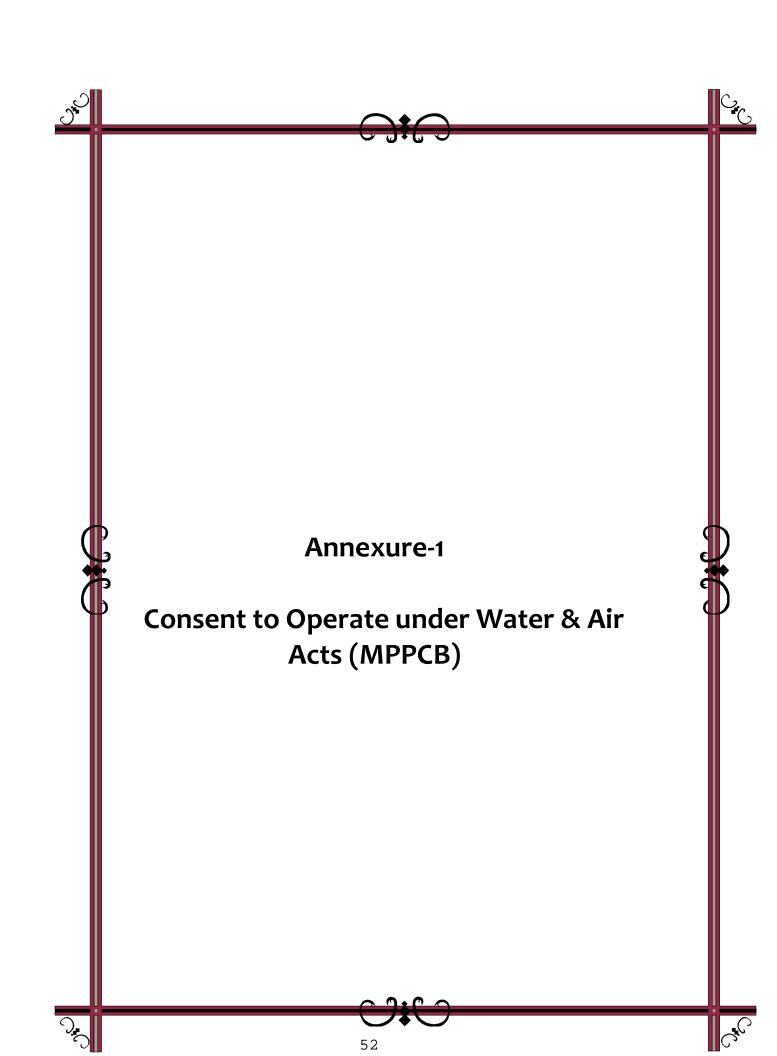
No.	Environmental Clearance Conditions		Compliance Status
	Very (U. W. Versit, Comp. Versit	Bounday has been 6	decided with fellowing days
			ubmitted with following details
	Proposal No	IA/MP/INI	02/26969/2015
	Compliance ID	11364672	8
	Compliance Number(For Tracking)	EC/M/COI	MPLIANCE/113646728/2024
	Reporting Year	2024	
	Reporting Period	01 Dec(01	Apr - 30 Sep)
	Submission Date	03-12-202	4
	RO/SRO Name	Shri Ashol	k Kumar Sinha
	RO/SRO Email	tg035@ifs	.nic.in
	State	MADHYA	PRADESH
	RO/SRO Office Address	Integrated	Regional Offices, Bhopal
	Note:- SMS and E-Mail has been sent to Shri Ashok Kumar Sinha, MA	DHYA PRADESH with Notific	ation to Project Proponent.
VI.	vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.		The Environmental Statement for each financial year is regularly submitted to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986, and amendments thereof. The last Environmental Statement Report for FY 2023-24 has been submitted and is available on the company's website.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.		Duly Noted
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.		Duly Noted
ix.			All commitments and recommendations made in the EIA/EMP report, as well as those made during the Public Hearing and the presentation to the Expert Appraisal Committee, are being strictly adhered to.
х.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change		No further expansion or modifications in the unit are being carried out without prior approval from the Ministry of Environment, Forests and Climate Change (MoEF&CC).
xi.	false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.		We acknowledge that concealing factual data, submitting false or fabricated information, or failing to comply with any stated conditions may result in the withdrawal of this clearance and could lead to action under the Environment (Protection) Act, 1986.

Grasim Industries Limited, (Chemical Division), Nagda (MP)

**33** | Page

No.	Environmental Clearance Conditions	Compliance Status
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	The clearance may be revoked or suspended if the implementation of any of the above conditions is found to be unsatisfactory.
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	The Ministry reserves the right to stipulate additional conditions if deemed necessary. The company will implement these conditions in a time-bound manner.
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	The Regional Office of the Ministry is monitoring compliance with the stipulated conditions. Full cooperation is being extended to the officer(s) of the Regional Office by providing the requisite data, information, and monitoring reports.
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Duly Noted
xvi.	Any appeal against this EC 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.	Duly Noted







## M.P. Pollution Control Board



E-5, Arera Colony Paryayaran Parisar, Bhopal - 16 MP Tele: 0755-2466191, Fax-0755-2463742

# Consent Order

**RED-LARGE CCA-Renewal** PCB ID: 25471

To,

The Occupier,

Outward No:-144678-12/11/12/08/15tries Ltd., (Chemical Division),

Consent No:AW-61343

Survey No.-22/1, Birlagram Nagda, Industrial Area Mehatwas,

Tal: Nagda, Dist: Ujjain (M.P.)- 456331

Subject: Grant of Renewal of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974

under section 21 of the Air (Prevention & Control of Pollution) Act,1981

Ref: Your Application Receipt No. 1397319 Dt. 18/09/2024 and last communication received on Dt. 23/10/2024

With reference to your above application for Renewal of consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 31/01/2027, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

#### SUBJECT TO THE FOLLOWING CONDITIONS :-

Survey No.-22/1, Birlagram Nagda, Industrial Area Mehatwas, Tal: Nagda, Dist: Ujjain (M.P.)- 456331 a. Location:

Latitude: 23.4408 Longitude: 75.4091

b. The capital investment: Rs. 1032.35 Crs

c. Product & Production Capacity:

S. No.	Product	CCA Qty / year
1.	Caustic Soda Lye	3,00,000.0 M.T
2.	Chlorine	2,39,111.0 M.T
3.	Hydrogen	7480.0 M.T
4.	Sodium Hypo	59,470.0 M.T
5.	Hydrochloric Acid	87,800.0 M.T
6.	Compressed Hydrogen	1070.0 M.T
7.	Stable Bleaching Powder	43800.0 M.T
8.	Poly Aluminium Chloride	36,500.0 M.T
9.	Chloro Sulphonic Acid	23,400.0 M.T
10.	Chlorinated Paraffin Wax	27,000.0 M.T
11.	Calcium Chloride	54,000.0 M.T
12.	Carbon Di Oxide	23,760.0 M.T
13.	DG – Set (Electricity Generation)	2X 2000KVA

#### Note :-

- (1) For any change in above industry shall obtain fresh consent from the board.
- (2) This consent is being granted without prejudice to the Criminal proceeding pending against the industry in the Court of Law. This consent in no way be taken as measures of proof that the industry has not violated any pollution control laws at any time in the past. Hence, whatsoever may be decision of the Hon'ble Court shall be binding to the industry and this Board.
- (3) The hydrochloric acid generated from air pollution control arrangement shall be treated as hazardous waste and same shall be handled and transported as per category 33.1 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and need to obtain permission under Rule 9 even used or treated within the plant.

The Validity of the consent is up to 31/01/2027 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

**Enclosures:-**

\* Conditions under Water Act

\* Conditions under Air Act

dag from UDAL) nditions

Signature Not Verified Digitally Signed by : A. A Mishra, Member Secretary

Date: 12/11/2024 02:56:27 PM (Organic Authentication on AADHAR from UIDAI Server)

TPĀV # 85NFW38WQO

By the order of Chairman, MPPCB

ACHYUT ANAND MISHRA Member Secretary

Achyel mishing

#### CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974:-

1. The daily quantity of trade effluent of the unit shall not exceed 433.0 KL/day, and the daily quantity of sewage of the unit shall not exceed 60.0 KL/day.

#### 2. Trade Effluent Treatment:-

The applicant shall operate comprehensive effluent treatment system including ETP, RO MEE & Dryer to remain Zero Liquid Discharge (ZLD) and in case of accidental discharge the waste shall be treated properly to achieve following standards

рН	Between	5.5 - 9.0	
Suspended Solids	Not exceed	100 mg/l.	
BOD <sub>3</sub> Days 27 °C	Not exceed	30 mg/l.	
COD	Not exceed	250 mg/l.	
Oil and grease	Not exceed	10 mg/l.	

TDS	Not exceed	2100 mg/l.	
Chlorides	Not exceed	1000 mg/l.	

For other parameters general standards of discharge as notified under EP Act 1986 notified by MPPCB from time to time shall be applicable

#### 3. Sewage Treatment:-

The applicant shall provide comprehensive sewage treatment system and maintain the same properly to achieve following standards-

pH	Between	6.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD <sub>3</sub> Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
Fecal Coliform (MPN/100ml)	Not exceed	1000

- 4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence **zero discharge condition** shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.
- 5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

Sr	Water Code (Qty in KLD)	WC: 3293.0	WWG : 493.0	Water Source
1	Cooling Water	1510.0	345.0	Local Body
2	Domestic Purpose	93.0	60.0	Local Body
3	Manufacturing Process	1690.0	88.0	Local Body

- 6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.
- 7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent
- 8. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

#### 9. Compilation of Monitoring data-

- i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.
- iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

#### 10. Recording of Monitoring Activities & Results-

- i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
- ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as

#### follows:

- (i) The date, exact place and time of sampling
- (ii) The dates on which analysis were performed
- (iii) Who performed the analysis?
- (iv)The analytical techniques or methods used and
- (v)The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shell include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

#### 11. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

#### 12. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relive the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

#### 13. Limitation of visible floating solids and foam:

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

#### 14. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

#### 15. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

#### 16. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent in prohibited except:

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.
- 17. Industry management shall submit the information online through XGN in reference to compliance of consent conditions.
- 18. In case of any discharge found outside of unit premises the unit may be liable to pay environmental compensation as per NGT orders O.A. no 593/2017dated 22.02.2021 and the industry shall be punishable or court case may be filed by the Board under provisions of the Water (Prevention & Control of Pollution) Act, 1974.

## Additional Water condition:-

- 1. The industry shall take all the effluent through closed conduit to effluent treatment plant and ZLD system and maintain ZLD.
- 2. Domestic sewage shall be treated in STP up to the prescribed standards and shall be recycled/reused within the plant in process, cooling, gardening etc to remain ZLD unit.
- 3. The industry shall operate and maintain wastewater flow meter at each unit and inlet of ETP to ensure complete collection of wastewater for treatment.
- 4. The industry shall operate and maintain CEQMS at inlet of ETP & MEE to monitor TDS, Flow, Chlorides, pH, COD etc and display the same in public domain though web based realtime display Board.
- 5. The industry shall comply with the industry specific standards notified by the MoEF&CC.

## CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Stack height (m)	Fuel	Control equipment to be installed	Emission standard (mg/NM³)	CEMS
	5.5 m <sup>3</sup> /Hr	32		Alkali Scrubber	Chlorine-15	
Caustic unit-I	2 m <sup>3</sup> /Hr	34		Water Scrubber	HCl mist-35	
	2 m <sup>3</sup> /Hr	34		Water Scrubber	HCl mist-35	
	$0.5 \text{m}^3/\text{Hr}$	34		Alkali Scrubber	Chlorine-15	
Caustic Unit-II	1 m <sup>3</sup> /Hr	34		Water Scrubber	HCl mist-35	
	1 m <sup>3</sup> /Hr	34		Water Scrubber	HCl mist-35	
Stable bleaching Powder (De- dusting	2 m <sup>3</sup> /hr	30		Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl <sub>2</sub> -15	Online real- time emission monitoring systems to be maintained and
unit)	2 m <sup>3</sup> /hr	30		Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl <sub>2</sub> -15	connected to MPPCB, ESC, Bhopal
PAC Liquid	3.5 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
PAC Dryer-I	6 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
PAC Dryer-II	5.5 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
Chloro sulphonic	1.5 m <sup>3</sup> /hr	30		H <sub>2</sub> SO <sub>4</sub> scrubber	SO <sub>3</sub> -50	
Acid	1.5 m <sup>3</sup> /hr	30		Water Scrubber	HCl Mist-35,PM-50	
CPW Plant	5 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
Cr w Flain	3 111 /111	34		Alkali Scrubber	Cl <sub>2</sub> -15	
Calcium Chloride Plant	5 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
D.G. Sets	2 x 2000 KVA	30	Diesel	Acoustic enclosure, Muffler	As per CPCB/MoEFCC	

- 2. The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:
- a. Particulate Matter (less than 10 micron) 100  $\mu g/m^3$  (PM10  $\mu g/m^3$  24 hrs. basis)
- b. Particulate Matter (less than 2.5 micron)  $60 \mu g/m^3$  (PM2.5  $\mu g/m^3$  24 hrs. basis)
- c. Sulphur Dioxide [SO2] (24 hrs. Basis) 80 µg/m<sup>3</sup>
- d. Nitrogen Oxides [NOx] (24 hrs. Basis) 80 μg/m<sup>3</sup>
- e. Carbon Monoxide [CO] (8 hrs. Basis) 2000 µg/m<sup>3</sup>
- 3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.
- 4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.
- 5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.
- 6. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises
- 7. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.
- 8. Industry shall take effective steps for extensive tree plantation preferably of the local tree species within or around the industry/unit premises for general improvement of environmental conditions and as stated in below.
- 9. In case of emission found exceeding prescribed standards, the unit may be liable to pay environmental compensation as per NGT orders O.A. no 593/2017dated 22.02.2021 and the industry shall be punishable or court case may be filed by the Board under provisions of the Air (Prevention & Control of Pollution) Act, 1981.

## Additional Air condition:-

- 1. Online real-time emission monitoring systems shall be installed, operated and maintained at all emission points and shall remain connected to MPPCB, ESC, Bhopal all the time. For any break down, immediate intimation shall be sent.
- 2. The industry shall install adequate numbers of the HCl mist & Chlorine detection censors within the plant premises and the same shall be connected to the public display system W-61343

3. The industry shall submit the sources emission monitoring report to the Board regularly on monthly basis to ensure the emission within norms and effective performance of the scrubbers.

## **GENERAL CONDITIONS:**

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

#### Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
STP Sludge	4.167 MT	Composting and used as manure or land
Food Waste	0.833 MT	fill after composting
Glass Waste	0.167 MT	
PVC Frills Cooling Tower	0.167 MT	
Paper wastes, Waste Carton, Discarded Poster, Carpet	0.833 MT	The materials to be sold to the
Wooden Waste	8.330 MT	authorized and consented actual users
General Trash/Refuse, Gardening Waste	8.330 MT	and the intimation of each dispatch shall be given to the Board
Metal Scrap, Valve & Pipe, Copper & Aluminium Cables	83.330 MT	
Discarded Equipment/machinery	8.330 MT	
Construction and Demolition Waste	83.330 MT	As per Construction and demolition
Other Sludge (Drain & Pit)	25.00 MT	Rules 2016, disposal shall be ensured
CaCl2	291.670 MT	It shall be given to the actual users

- 2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:
- a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
  - d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
  - e. To sample at reasonable times any discharge or pollutants.
- 3. This consent is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.
- 4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
- 5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional.
- 6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.
- 7. Balance consent fee, if any shall be recoverable by the Board even at a later date.
- 8. The applicant shall submit such information, forms and fees as required by the board not letter than 180 day prior to the date of expiration of this consent.
- 9. The industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.
- 10. Industry shall obtain membership of Emergency Response Center of the Board if needed.
- 11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.
- 12. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following:
  - (a) Violation of any terms and conditions of this Consent.

    Consent No:AW-61343

- (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
- 13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.
- 14. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.
- 15. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.
- 16. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis
- 17. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month.

#### **Additional condition:-**

- 1. The Industry shall operate & maintain Outdoor HD Industrial grade IP (Internet Protocol) Cameras with pan-Tilt Zoom (PTZ) feature, minimum focal length 20X with night vision facility and temper proof mechanism at suitable location to display all emission sources and effluent discharge point and connect the same with Environment Surveillance Centre, MP Pollution control board Bhopal for remote surveillance.
- 2. The industry shall inventories the solid waste generation from the unit and submit the details within one month to the board and update same within 06 months for actual quantities.
- 3. The industry shall obtain the public liability insurance under Public Liability Act 1991 and shall maintain valid copy of the same.
- 4. The industry shall maintain valid Onsite Emergency Plan/ Disaster Management Plan duly approved by Department of Industrial Health & Safety.
- 5. The industry shall obtain membership of Emergency Response Center, MPPCB, Bhopal.
- 6. The industry shall comply with the all conditions of CREP Charter conditions, EC stipulations issued vide F No. 11011/119/2015- IA-I(I) dated 07/01/2020 and standards notified by Ministry of Environment, Forests and Climate Change, GoI, Dehli under EPA 1986.
- 7. The industry shall not be permitted to store the hazardous wastes more than 90 days as prescribed in HOWM Rules, 2016 and firm arrangements shall be made with the end users and copy of MoUs shall be submitted within 03 months to the Board.
- 8. Based on hazard identification and risk analysis, risk mitigation measures, industry shall ensure all possible efforts with coordinations local bodies to reduce risk and enhance safety at the plant and its surroundings.
- 9. The industry shall maintain the material balance for each product and submit the same to the Board annually.
- 10. Information of each Mock drill shall be given to local body, local administration & MPPCB RO, Ujjain atleast 07 days in advance.
- 11. The fire safety arrangements shall be maintained properly and tested during each mock drill.

Renewal of Consent as required under the Water (Prevention & Control of Pollution) Act, 1974 & The Air (Prevention & Control of Pollution) Act, 1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For further renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of By the MACPOINGIBITE CONTINUES BO

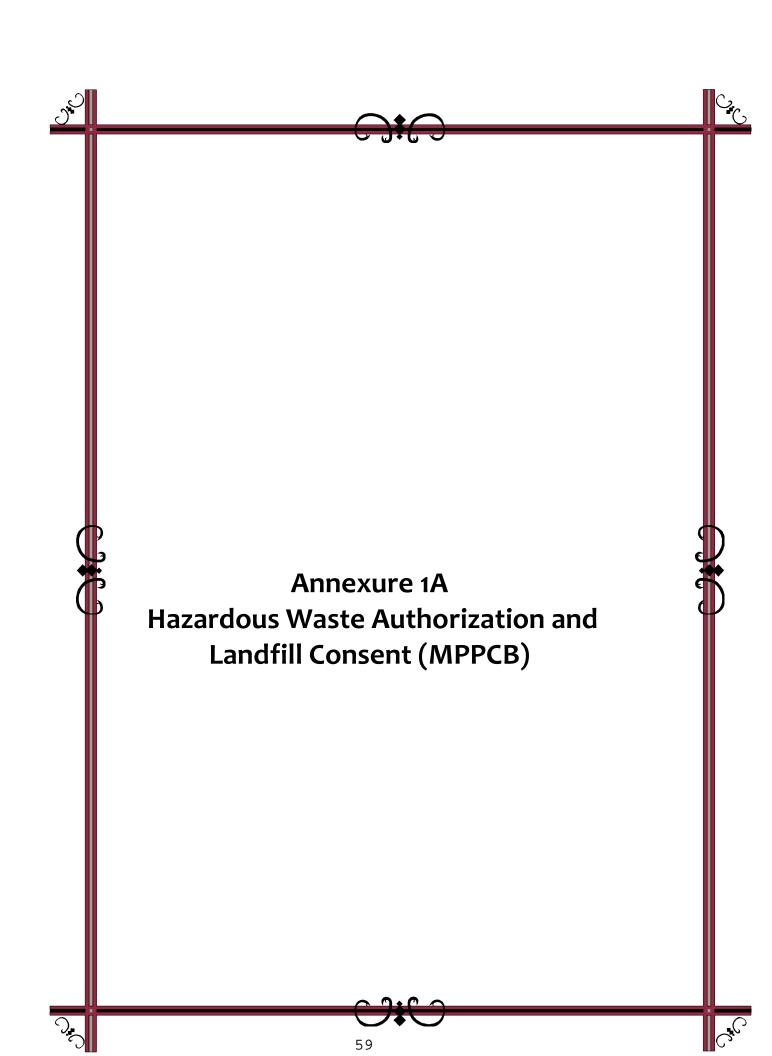
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# Annexure 1A Hazardous Waste Authorization

M.P. Pollution Control Board E-5, Arera Colony Paryavaran Parisar, Bhopal - 16 MP Tele: 0755-2466191, Fax-0755-2463742

RED-LARGE

CCA-Expansion

CONSENT NO: \*\*\*

PCB ID: 25471

Outward No: 114663.U NO: /MPPCB/UJJ

Consent No:AWH-55153

To,

The Occupier,

M/s. Grasim Industries Ltd., Chemical Division

Survey No.-22/1, Birlagram Nagda, Industrial Area Mehatwas Tal: Nagda Dist: Ujjain, Latitude: 23.4373 Longitude: 75.4118

Subject: Grant of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974 & under section 21

of the Air (Prevention & Control of Pollution) Act,1981 and Authorization under Hazardous and other Waste (Management

& Transboundary movement) Rules, 2016

Your Consent to Operate Application Receipt No. 1105555 Dt. 19/01/2022 and last communication received on Ref:

Dt.27/01/2022

With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 31/01/2023 & authorisation up to 31/01/2027, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

#### SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location: Survey No.-22/1, Birlagram Nagda, Industrial Area Mehatwas, Tal: Nagda Dist: Ujjain

b. The capital investment in lakhs: Rs. 74884.1208

c. Product & Production Capacity:

S.No.	Product	CCA Qty / year
1	Caustic Soda Lye	300,000 MT
2	Chlorine	239,111 MT
3	Hydrogen	7,480 MT
4	Sodium Hypo	59,470 MT
5	Hydrochloric Acid	87,800 MT
6	Compressed Hydrogen	1,070 MT
7	Stable Bleaching Powder	43,800 MT
8	Poly Aluminium Chloride	36,500 MT
9	Chloro Sulphonic Acid	23,400 MT
10	Chlorinated Paraffin Wax	27,000 MT
11	Calcium Chloride	54,000 MT
12	Carbon Dioxide	23,760 MT
13	DG – Set (Electricity Generation)	2X 2000KVA

#### Note:-

- (1) For any change in above industry shall obtain fresh consent from the board.
- (2) This consent is being granted without prejudice to the Criminal proceeding pending against the industry in the Court of Law. This consent in no way be taken as measures of proof that the industry has not violated any pollution control laws at any time in the past. Hence, whatsoever may be decision of the Hon'ble Court shall be binding to the industry and this Board.
- (3) The hydrochloric acid generated from air pollution control arrangement shall be treated as hazardous waste and same shall be handled and transported as per category 33.1 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and need to obtain permission under Rule 9 even used or treated within the plant.
- (4) This CCA is issued combined for the existing units of M/s Grasim Industries Ltd. (CD) wrt EC issued by MoEF&CC on 07/01/2020.

The Validity of the consent is up to 31/01/2023 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

der Water Act der Air Act

(Organico Adithenticadio i Hona Ada DHRA Refrom UIDAI Server) TPAV #NNYWGMROAC

ACHYUT ANAND MISHRA **Member Secretary** 





M.P. Pollution Control Board E-5, Arera Colony Paryavaran Parisar, Bhopal - 16 MP Tele: 0755-2466191, Fax-0755-2463742

## ITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of trade effluent at out fall of the unit shall not exceed 433.000 KL/day, and the daily quantity of sewage at out fall of the unit shall not exceed 60.000 KL/day

#### 2. Trade Effluent Treatment:-

The applicant shall operate comprehensive effluent treatment system including ETP, RO MEE & Dryer to remain Zero Liquid Discharge (ZLD) and in case of accidental discharge the waste shall be treated properly to achieve following standards-

pН	Between	5.5 - 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD <sub>3</sub> Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.

TDS	Not exceed	2100 mg/l.	
Chlorides	Not exceed	1000 mg/l.	

For other parameters general standards of discharge as notified under EP Act 1986 shall be applicable.

3. **Sewage Treatment:** The applicant shall provide comprehensive sewage treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards-

pH	Between	5.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD <sub>3</sub> Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.

The operator of the STP shall comply with the standards notified vide G.S.R. 1265(E) under sections 6 and 25 of the Environment (Protection) Act, 1986 by the Ministry of **Environment, Forest and Climate Change New** Delhi dated 13th October, 2017.

- 4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.
- 5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

Sr	Water Code	WC: 3293.000	WWG: 493.000	Water Source
	(Qty in klpd - Kilo Ltr per Day)			
1	Cooling Water	1510.000	345.000	Local Body
2	Domestic Purpose	93.000	60.000	Local Body
3	Mnfg Process	1690.000	88.000	Local Body

- 6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board
- 7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent
- 8. The Consent does not authorize or approve the Construction of any physical structures or facilities or the undertaking of any work in any water course or within its high flood level (HFL) area
- 9. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

#### 10. Compilation of Monitoring data-

- i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications



M.P. Pollution Control Board E-5, Arera Colony Paryavaran Parisar, Bhopal - 16 MP Tele: 0755-2466191, Fax-0755-2463742

and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.

iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

#### 11. Recording of Monitoring Activities & Results-

- i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
- ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:
  - (i) The date, exact place and time of sampling
  - (ii) The dates on which analysis were performed
  - (iii) Who performed the analysis?
  - (iv)The analytical techniques or methods used and
  - (v)The result of all required analysis
- iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shell include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.
- iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

#### 12. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

#### 13. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relive the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

#### 14. Limitation of visible floating solids and foam:

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

#### 15. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

#### 16. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

#### 17. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent in prohibited except:

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.
- 18. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.

#### Additional Water condition:-

1. The industry shall take all the effluent through closed conduit to effluent treatment plant and ZLD system and maintain ZLD.



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- Domestic sewage shall be treated in STP up to the prescribed standards and shall be recycled/reused within the plant in process, cooling, gardening etc to remain ZLD unit.
- The industry shall install wastewater flow meter at each unit and inlet of ETP to ensure complete collection of wastewater for treatment.
- The industry shall install CEQMS at inlet of ETP & MEE to monitor TDS, Flow, Chlorides, pH, COD etc within 06 months and display the same in public domain though web based realtime display Board.
- The industry shall comply with the industry specific standards notified by the MoEF&CC.

#### CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Stack	Fuel	Control equipment to be	$(mg/NM^3)$	CEMS
		height (mtrs)		installed		
	5.5 m <sup>3</sup> /Hr	32		Alkali Scrubber,	Chlorine-15	
Caustic unit-I	2 m <sup>3</sup> /Hr	34		Water Scrubber,	HCl mist-35	
	2 m <sup>3</sup> /Hr	34		Water Scrubber,	HCl mist-35	
	0.5m <sup>3</sup> /Hr	34		Alkali Scrubber,	Chlorine-15	
Caustic Unit-II	1 m <sup>3</sup> /Hr	34		Water Scrubber,	HCl mist-35	
	1 m <sup>3</sup> /Hr	34		Water Scrubber,	HCl mist-35	
Stable bleaching Powder (Dedusting	2 m <sup>3</sup> /hr	30		Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl <sub>2</sub> -15	Online real- time emission monitoring
unit)	2 m <sup>3</sup> /hr	30		Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl <sub>2</sub> -15	systems to be installed and connected to MPPCB, ESC,
PAC Liquid	$3.5 \text{ m}^3/\text{hr}$	34		Water Scrubber	HCl Mist-35	Bhopal on or
PAC Dryer-I	6 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	before
PAC Dryer-II	$5.5 \text{ m}^3/\text{hr}$	34		Water Scrubber	HCl Mist-35	application
Chloro sulphonic Acid	1.5 m <sup>3</sup> /hr	30		H <sub>2</sub> SO <sub>4</sub> scrubber	SO <sub>3</sub> -50	for CTO
Cinoro surpriorne Acid	1.5 m <sup>3</sup> /hr	30		Water Scrubber,	HCl Mist-35,PM-50	
CPW Plant	5 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
CF W Flain	3 111 /111	34		Alkali Scrubber	Cl <sub>2</sub> -15	
Calcium Chloride Plant	5 m <sup>3</sup> /hr	34		Water Scrubber	HCl Mist-35	
D.G. Sets	2 x 2000 KVA	30	Diesel	Acoustic enclosure, Muffler,	As per CPCB/MoEFCC	

- 2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:
  - a. Particulate Matter (less than 10 micron) 100 μg/m³ (PM10 μg/m³ 24 hrs. basis)
  - b. Particulate Matter (less than 2.5 micron) 60 μg/m³ (PM2.5 μg/m³ 24 hrs. basis)
  - c. Sulphur Dioxide [SO<sub>2</sub>] (24 hrs. Basis) 80 µg/m<sup>3</sup>
  - d. Nitrogen Oxides [NOx] (24 hrs. Basis) 80 μg/m<sup>3</sup>
  - e. Carbon Monoxide [CO] (8 hrs. Basis) 2000 µg/m<sup>3</sup>
- 3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.
- 4. Industry/Unit shall provide with each stack port hole with safe platform of 1 meter width with support & spiral ladder/ Stepped ladder with hand rail up to monitoring platform as per specifications given in part-III emission regulation of CPCB. In no case monkey ladder shall be allowed as stack monitoring facility.
- 5. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.
- 6. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.
- 7. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises



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- 8. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages
- 9. Industry shall take effective steps for extensive tree plantation preferably in 03 rows of the local tree species with minimum spacing of 2X2 meters within or around the industry/unit premises for general improvement of environmental conditions and as stated in below...

(Minimum number of plants to be planted by the unit:-59200)

#### Additional Air condition:-

- Online real-time emission monitoring systems shall be installed, operated and maintained at all emission points and shall remain connected to MPPCB, ESC, Bhopal all the time. For any break down, immediate intimation shall be sent.
- The industry shall install adequate numbers of the HCl mist & Chlorine detection censors within the plant premises and the same shall be connected to the public display system.
- The industry shall submit the sources emission monitoring report to the Board regularly on monthly basis to ensure the emission within norms and effective performance of the scrubbers.

### CONDITIONS PERTAINING TO THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016:-

# FORM-2 [See rule 6 (2)]

## FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL **FACILITIES**

1. Number of authorisation and date of issue:

2. Reference of application (No. and date): COE-1105555, dt: 19/01/2022

3. COE-1105555, dt: 19/01/2022 of Grasim Industries Ltd., Chemical Division (Calcium Chloride Mfg. Unit) is hereby granted an authorisation based on the enclosed signed inspection report (can be seen in xgn) for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at Survey No.-22/1, Birlagram Nagda, Industrial Area Mehatwas, Tal: Nagda Dist: Ujjain

#### **Details of Authorisation**

	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity (ton/annum)
1.	Used or Spent Oil(5.1)	Collection, storage and disposal to authorized recyclers, (Co-processing & Preprocessing if not suitable for recycling)	40.250-MT
2.	Brine Sludge(16.3)	Captive Land fill upto December, 2022, CTSDF	7500.000-M.T
3.	Chemical sludge from waste water treatment(35.3)	Captive Land fill upto December, 2022, CTSDF 500.000-M.T	
4.	Residue or Sludges And Filter Cakes(16.2)	CTSDF or CPCB SOP based actual users for utilisation 7200.000-M.T	
5.	Spent ion exchange resin containing toxic metals(35.2)	CTSDF, Coprocessing, Pre- processing, coincineration in boilers	
6.	Residue or Sludges And Filter Cakes(16.2)	CTSDF, Coprocessing, Pre-processing,	1200.000-M.T
7.	Spent carbon(28.3)	CTSDF, Coprocessing, Pre-processing,	5.000-M.T
8.	Empty barrels/containers/liners contaminated with	CTSDF, Coprocessing, Pre-processing, authorized	25.000-M.T
	hazardous chemicals /wastes(33.1)	recyclers	
9.	Oil And Grease, Skimming(35.4)	CTSDF, Coprocessing, Pre-processing,	2.000-M.T
10.	Contaminated cotton rags or other cleaning materials(33.2)	CTSDF, Coprocessing, Pre-processing, 2.000-M.T	
11.	Chemical sludge from waste water treatment(35.3)	CTSDF,	3000.000-M.T
12.	Chemical Waste (Solid)(Z33)	Captive Land fill upto December, 2022, CTSDF 10.000-M.T	
13.	Asbestos(Z16)	Captive Land fill upto December,2022, CTSDF	1.000-M.T
14.	Glasswool (Z22)	Captive Land fill upto December, 2022 CTSDF	5.000-M.T
15.	Filter Waste (Z37)	CTSDF, Coprocessing, pre-processing	10.000-M.T
16.	Rubber(X08)	Authorised recyclers,	10.000-M.T
17.	Pvc & Plastic Waste(Z46)	Athorised Recyclers, consented recyclers	600.000-M.T
18.	Thermocol(Z50)	Captive Land fill upto December,2022, CTSDF	0.500-M.T





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Chemical Waste (Solid)(Z33) Captive Land fill upto December, 2022 CTSDF 200.000-M.T 19.

- (1) The authorisation shall be valid for a period of 01/02/2022~31/01/2027
- (2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

#### A. General conditions of authorisation:

- 1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
- 3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty
- 7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
- 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.
- 9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
- 11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
- 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.
- 14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 15. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.



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# B. Specific conditions:

- 1. The industry shall display the information on hazardous waste generated on notice board of size 6' x 4' (in Hindi & English) outside the unit main gate along with quantity and nature of hazardous chemicals being handled in the plant, including wastewater, air emission and hazardous wastes.
- 2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.

#### Additional Haz condition:-

- 1. The industry shall obtain insurance under Public Liability Insurance Act, if applicable and shall submit a copy to the board.
- 2. Any unauthorized change in production capacity, process, raw materials, personnel, equipments etc. as mentioned in the application by the person authorized shall constitute a breach of this authorisation.
- 3. The unit shall maintain the records of hazardous waste as per the Form-3 of rule 6(5) and shall online submit the annual return in Form-4 as per rule 6(5) 20(2) to this office on or before 30th June every year and preferably before 30th April.
- 4. The information regarding quantity of hazardous wastes generated and its analysis report should be sent to the Board online at least annualy.
- 5. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.
- 6. The authorized person shall inform the name and address of the contact person / occupier responsible for hazardous waste management.
- 7. In case of importing Hazardous Waste, occupier shall apply to the M.P. Pollution Control Board, 180 days in advance in Form-6, for permission to import of the waste as per Rule 13(i) of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended up to date.
- 8. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on fax/telephone/email-it\_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.5 as per Rule-10 of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended upto date.

#### Additional Packing, Labeling & Transportation of Hazardous wastes:-

- 1. The unit shall maintain the records of hazardous waste as per the Form-3 of rule 6(5) and shall online submit the annual return in Form-4 as per rule 6(5), 20(2) to this office on or before 30th June every year and preferably before 30th April.
- 2. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.
- 3. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on fax/telephone/emailit\_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.11 as per Rule-22 of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended upto date.
- 4. The occupier shall ensure that the hazardous waste are packaged and labeled, based on the composition in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board in October 2004 & updated from time to time.
- 5. In case of transportation of hazardous wastes through a State other than the State of origin or destination, the occupier shall intimate the concerned State Pollution Control Board before he hands over the hazardous wastes to the transporter.



M.P. Pollution Control Board E-5, Arera Colony Paryavaran Parisar, Bhopal - 16 MP Tele: 0755-2466191, Fax-0755-2463742

#### **GENERAL CONDITIONS:**

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

#### Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal	
STP Sludge	4.167 MT	Composting and used as manure or land fill after compostion	
Food Waste	0.833 MT		
Glass Waste	0.167 MT		
PVC Frills Cooling Tower	0.167 MT		
Paper wastes, Waste Carton, Discarded Poster, Carpet	0.833 MT	The materials to be sold to the authorized and consented actual users and the intimation of each dispatch shall be given to the Board	
Wooden Waste	8.330 MT		
General Trash/Refuse, Gardening Waste	8.330 MT		
Metal Scrap, Valve & Pipe, Copper & Aluminium Cables	83.330 MT		
Discarded Equipment/machinery	8.330 MT		
Construction and Demolition Waste	83.330 MT As per Construction and demolition		
Other Sludge (Drain & Pit)	25.00 MT	Rules 2016, disposal shall be ensured	
CaCl <sub>2</sub>	291.670 MT	It shall be given to the actual users	

- 2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:
  - a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
  - b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
  - c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
  - d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
  - e. To sample at reasonable times any discharge or pollutants.
- 3. This consent / authorisation is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.
- 4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
- 5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month
- 6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.
- 7. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.
- 8. The applicant shall submit such information, forms and fees as required by the board not letter than 180 day prior to the date of expiration of this consent/authorisation
- 9. The industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st



M.P. Pollution Control Board E-5, Arera Colony Paryavaran Parisar, Bhopal - 16 MP Tele: 0755-2466191, Fax-0755-2463742

March on or before 30th September every year to the Board.

- 10. Industry shall obtain membership of Emergency Response Center of the Board if needed.
- 11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.
- 12. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following:
  - (a) Violation of any terms and conditions of this Consent.
  - (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
  - (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
- 13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

#### Additional condition:-

- 1. The Industry shall operate & maintain Outdoor HD Industrial grade IP (Internet Protocol) Cameras with pan-Tilt Zoom (PTZ) feature, minimum focal length 20X with night vision facility and temper proof mechanism at suitable location to display all emission sources and effluent discharge point and connect the same with Environment Surveillance Centre, MP Pollution control board Bhopal for remote surveillance.
- The industry shall install CEQMS at inlet of ETP & MEE to monitor TDS, Flow, Chlorides, pH, COD etc within 06 months and display the same in public domain though web based realtime display Board.
- The industry shall inventorise the solid waste generation from the unit and submit the details within one month to the board and update same within 06 months for actual quantities.
- 4. The industry shall obtain the public liability insurance under Public Liability Act 1991 and shall maintain valid copy of the same.
- The industry shal maintain valid Onsite Emergency Plan/ Disaster Management Plan duly approved by Department of Industrial Health & Safety.
- The industry shall obtain membership of Emergency Response Center, MPPCB, Bhopal.
- The industry shall comply with the all conditions of CREP Charter conditions, EC stipulations issued vide F No. 11011/119/2015-IA-I(I) dated 07/01/2020 and standards notified by Ministry of Environment, Forests and Climate Change, GoI, Dehli under EPA
- The Industry shall submit environmental statement for every financial year ending 31st March on or before 30th September and preferably before 30th April to the Board, containing details in reference to all consented products either produced for that year or
- The industry shall not be permitted to store the hazardous wastes more than 90 days as prescribed in HOWM Rules, 2016 and firm arrangements shall be made with the end users and copy of MoUs shall be submitted within 03 months to the Board.
- 10. Based on hazard identification and risk analysis, risk mitigation measures, industry shall ensure all possible efforts with coordinations local bodies to reduce risk and enhance safety at the plant and its surroundings.
- 11. The industry shall maintain the material balance for each product and submit the same to the Board annually.
- 12. Information of each Mock drill shall be given to local body, local administration & MPPCB RO, Ujjain atleast 07 days in advance.
- 13. The fire safety arrangements shall be maintained properly and tested during each mock drill.
- 14. This consent is being granted without prejudice to the Criminal proceeding pending against the industry in the Court of Law. This consent in no way be taken as measures of proof that the industry has not violated any pollution control laws at any time in the past. Hence, whatsoever may be decision of the Hon'ble Court shall be binding to the industry and this Board.
- 15. The hydrochloric acid generated from air pollution control arrangement shall be treated as hazardous waste and same shall be handled and transported as per category 33.1 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and need to obtain permission under Rule 9 even used or treated within the plant.
- 16. This CCA is issued combined for the existing units of M/s Grasim Industries Ltd. (CD) wrt EC issued by MoEF&CC on 07/01/2020.
- 17. The consent and authorizations granted to other units shall be stand cancelled after issueance of this order.

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act,1974 , The Air (Prevention & Control of Pollution) Act,1981 and the Authorization under Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2016 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board sh ne discharge of effluent and gaseous emission.

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M.P. Pollution A Ontrob Mishra Member Secretary





**RED-SMALL** 

CCA-Fresh

Validity(A/W): 30/11/2028 Validity(H): 31/12/2028

CONSENT NO: \*\*\*

PCB ID: 150195

Outward No:119560,13/01/2024

Consent No:AWH-59528

To,

The Occupier,

M/s. Grasim Industries Ltd. (Chemical Division)

(Captive Slf Development Facility)

Survey No 401/1/1,402, Birlagram, Nagda, Tal: Nagda, SIDC: I/A Mehatwas Nagda, Dist: Ujjain (M.P.)- 456331

Subject: Grant of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974 & under

section 21 of the Air (Prevention & Control of Pollution) Act,1981 and Authorization under Hazardous and other

Waste (Management & Transboundary movement) Rules, 2016

Ref: Your Application Receipt No. 1324447 Dt. 13/12/2023 and last communication received on Dt.11/12/2023

With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 30/11/2028 & authorization up to 31/12/2028, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

# SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location: Survey No 401/1/1,402, Birlagram, Nagda, Tal: Nagda, SIDC: I/A Mehatwas Nagda, Dist: Ujjain (M.P.)-

456331

b. The capital investment: Rs. 7.77 Crs

c. Product & Production Capacity:

= -	
Product	Applied Qty / year
Captive secured land fill site (II)	45000.0 MT <sup>3</sup>
	(Forty Five Thousand Cubic Meter)

### Note:-

- 1. For any change in above industry shall obtain fresh consent from the board.
- 2. The facility operator shall follow CPCB guidelines for secured land fill site operation.
- 3. Guidelines issued by CPCB for Storage of hazardous wastes shall be strictly followed.
- 4. Guidelines for proper upkeep and functioning of disposal site (HAZWAMS/32/2005-06) issued by CPCB shall be complied.

The Validity of the consent is up to 30/11/2028 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

#### **Enclosures:-**

- \* Conditions under Water Act
- \* Conditions under Air Act
- \* Conditions under Hazardous Rules

\* General conditions

By the order of Chairman, MPPCB

anthakul

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Mohan Thakut-HAS

Date: 13/01/2<mark>02</mark>4 05:19:17 PM (Organic Authentication on AADHAR from UIDAI Server)

TPAV # O8SD8HEJ9E

CHANDRA MOHAN THAKUR Member Secretary



# CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of trade effluent of the unit shall not exceed **1.0 KLD** and the daily quantity of sewage of the unit shall be **Nil**.

#### 2. Trade Effluent Treatment:-

The applicant shall operate effluent treatment system and maintain the same properly to achieve following standards-

pН	Between	5.5 – 9.0	TDS	Not exceed	2100 mg/l.
Suspended Solids	Not exceed	100 mg/l.	Chlorides	Not exceed	1000 mg/l.
BOD <sub>3</sub> Days 27 °C	Not exceed	30 mg/l.			
COD	Not exceed	250 mg/l.			
Oil and grease	Not exceed	10 mg/l.			

For other parameters general standards of discharge as notified under EP Act 1986 and notified by MPPCB from time to time shall be applicable.

# 3. Sewage Treatment (if any) :-

The applicant shall operate and maintain sewage treatment facility to achieve following standards-

pH	Between	6.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD 3 Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
fecal coliform	Not exceed	1000 MPN/100 ml

- 4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.
- 5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

Sr	Water Code (Qty in KLS)	WC: 1.0	WWG: 1.0	Water Source	Remark
1	Others	1.0	1.0	Other	Leachate from captive
					secured land fill

- 6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.
- 7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent
- 8. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

# 9. Compilation of Monitoring data-

- i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.
- iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.





## 10. Recording of Monitoring Activities & Results-

- i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
- ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:
  - (i) The date, exact place and time of sampling
  - (ii) The dates on which analysis were performed
  - (iii) Who performed the analysis?
  - (iv)The analytical techniques or methods used and
  - (v)The result of all required analysis
- iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shell include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.
- iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

# 11. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

#### 12. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relive the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

#### 13. Limitation of visible floating solids and foam:-

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

### 14. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

#### 15. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

# 16. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent in prohibited except:

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.
- 17. Industry management shall submit the information online through XGN in reference to compliance of consent conditions.

# Additional Water condition:-

- 1. Leachate from the secured landfills shall be collected and treated through ZLD system.
- 2. Industry shall ensure regular maintenance of the pipeline for the transfer of Leachate from the Secured landfill to the ETP based on ZLD. The treated leachate shall be disposed off through MEE.
- 3. The facility operator shall cover the in operation landfill cell during the each rainy season with report to HO & RO,MPPCB.
- 4. The facility operator shall cap the filled cell (completed) as per the guidelines of MoEFCC & CPCB and directions by MPPCB within stipulated time as per earlier letter.





## CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

- 1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the prescribed standards.
- 2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:
  - a. Particulate Matter (less than 10 micron) 100 μg/m³ (PM10 μg/m³ 24 hrs. basis)
  - b. Particulate Matter (less than 2.5 micron) 60 μg/m³ (PM2.5 μg/m³ 24 hrs. basis)
  - c. Sulphur Dioxide [SO2] (24 hrs. Basis)  $80 \ \mu g/m^3$
  - d. Nitrogen Oxides [NOx] (24 hrs. Basis) 80 μg/m<sup>3</sup>
  - e. Carbon Monoxide [CO] (8 hrs. Basis) 2000 µg/m³
- 3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.
- 4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.
- 5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.
- 6. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises
- 7. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.
- 8. Industry shall take effective steps for extensive tree plantation preferably of the local tree species within or around the industry/unit premises for general improvement of environmental conditions.

# Additional Air condition:-

- 1. Ambient air quality at the boundary of the factory premises shall conform to the norms prescribed in MoEF&CC gazette notification no . GSR/826(E), dated: 16/11/09.
- 2. Fugitive emission shall have to be effectively controlled by constant vigil, timely repair and good housekeeping practices.
- 3. A fire protection system of approved design shall be maintained in all the storage sheds and pre-processing area.
- 4. The facility shall have appropriate odor control facility to deal with the odor nuisance in and around the unit.
- 5. Emergency showers and eye wash stations shall be provided at each storage, handling and pre-processing work area for immediate emergency use during exposure to the wastes.
- 6. Abatement techniques shall be installed for control of noise to required levels.



# CONDITIONS PERTAINING TO THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016:-

## FORM-2

[See rule 6 (2)]

# FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY M.P. POLLUTION CONTROL BOARD TO THE OCCUPIERS AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization and date of issue : ,

2. Reference of application (No. and date) : COF-1324447, dt: 13/12/2023

3. The occupier of M/s. Grasim Industries Ltd. (Chemical Division)

Captive SIf Development Facility - Grasim Industries Ltd. (Chemical Division) is hereby granted an authorisation based on the enclosed signed inspection report (can be seen in XGN) for generation, collection, storage, transport, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at401/1/1,402, Birlagram, Nagda, Ujjain, (M.P.)

#### **Details of Authorisation**

Category of Hazardous Waste as per the Schedules I, II and III of these rules		Authorized mode of disposal	Quantity (ton/annum)
Chemical Waste (Solid)	(Z33)	Captive Land fill upto December, 2028, CTSDF	50.0-M.T
Residue or Sludges And Filter Cakes	(16.2)	Captive Land fill upto December, 2028, CTSDF	2800.0-M.T
Chemical sludge from waste water treatment	(35.3)	Captive Land fill upto December, 2028, CTSDF	200.0-M.T
Brine Sludge	(16.3)	Captive Land fill upto December, 2028, CTSDF	3500.0-M.T
Residue or Sludges And Filter Cakes	(16.2)	Captive Land fill upto December, 2028, CTSDF	400.0-M.T
Asbestos	(Z16)	Captive Land fill upto December, 2028, CTSDF	10.0-M.T
Glasswool	(Z22)	Captive Land fill upto December, 2028, CTSDF	25.0-M.T
Thermocol	(Z50)	Captive Land fill upto December, 2028, CTSDF	1.0-M.T

- (1) The authorization shall be valid up to 31/12/2028
- (2) The authorization is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

#### A. General conditions of authorisation:

- 1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the M.P. Pollution Control Board.
- 3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
- 4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- 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 and also carry out mock drill in this regard at regular interval of time;
- 6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty





- 7. It is the duty of the authorized person to take prior permission of the M.P. Pollution Control Board to close down the facility.
- 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.
- 9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 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 wastes shall be treated and disposed of as per specific conditions of authorization.
- 11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 12. An application for the renewal of an authorization shall be made as laid down under these Rules.
- 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.
- 14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 15. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

# B. Specific conditions:

- 1. The industry shall display the information on hazardous waste generated on notice board of size 6' x 4' (in Hindi & English) outside the unit main gate along with quantity and nature of hazardous chemicals being handled in the plant, including wastewater, air emission and hazardous wastes.
- 2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the M.P. Pollution Control Board.

#### Additional Haz condition:-

- 1. The industry shall obtain insurance under Public Liability Insurance Act, if applicable and shall submit a copy to the board.
- 2. Any unauthorized change in production capacity, process, raw materials, personnel, equipments etc. as mentioned in the application by the person authorized shall constitute a breach of this authorization.
- 3. The unit shall maintain the records of hazardous waste as per the Form-3 of rule 6(5) and shall online submit the annual return in Form-4 as per rule 6(5) 20(2) to this office on or before 30th June every year and preferably before 30th April.
- 4. The information regarding quantity of hazardous wastes generated and its analysis report should be sent to the Board online at least annualy.
- 5. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.
- 6. The authorized person shall inform the name and address of the contact person / occupier responsible for hazardous waste management.
- 7. In case of importing Hazardous Waste, occupier shall apply to the M.P. Pollution Control Board, 180 days in advance in Form-6, for permission to import of the waste as per Rule 13(i) of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended up to date.
- 8. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on fax/telephone/emailit\_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.5 as per Rule-10 of Hazardous and other Waste (Management and Transbound as Movement) Rule 2016 as amended upto date.



# Additional Packing, Labeling & Transportation of Hazardous wastes:-

- (i) The occupier or operator of the Treatment, Storage and Disposal Facility or recycler shall ensure that the hazardous waste are packaged and labeled, based on the composition in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board vide October 2004 & conditions issues from time to time.
- (ii) The labeling and packaging shall be easily visible and be able to withstand physical conditions and climate factors
- (iii) The transport of the hazardous wastes shall be in accordance with the provision of these rules and the rules made by the Central Govt. under the Motor Vehicle Act 1988 and other guidelines issued from time to time in this regard.
- (iv) In case of transportation of hazardous wastes through a State other than the State of origin or destination, the occupier shall intimate the concerned State Pollution Control Board before he hands over the hazardous wastes to the transporter.
- (v) The occupier shall provide the transporter with seven copies of the manifest as per the colour codes as per rule 19(1).
- (vi) The occupier shall forward copy 1 (white) to the M.P. Pollution Control Board and in case the hazardous wastes is likely to be transported through any transit State, the occupier shall prepare an additional copy each for intimation to such State and forward the same to the concerned SPCB before he hands over the hazardous wastes to the transporter.
- (vii) No transporter shall accept hazardous wastes from an occupier for transport unless copies 3 to 7 of the manifest accompany it.
- (viii) The transporter shall submit copies 3 to 7 of the manifest duly signed with date to the operator of the facility along with the waste consignment.

# **GENERAL CONDITIONS:**

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

#### Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny begs etc	Record should be mainatained	Sale to authorized party/As Per CPCB. MoEF Guide lines / Others.

- 2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:
- a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
  - d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
  - e. To sample at reasonable times any discharge or pollutants.
- 3. This consent / authorization is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.
- 4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.





- 5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month
- 6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.
- 7. Balance consent/authorization fee, if any shall be recoverable by the Board even at a later date.
- 8. The applicant shall submit such information, forms and fees as required by the board not letter than 180 day prior to the date of expiration of this consent/authorization.
- 9. The industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.
- 10. Industry shall obtain membership of Emergency Response Center of the Board if needed.
- 11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38(g) of the Air Act.
- 12. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following:
  - (a) Violation of any terms and conditions of this Consent.
  - (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
  - (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
- 13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

# Additional condition:-

- 1. The industry shall maintain "Outdoor HD Industrial grade IP (Internet Protocol) cameras with Pan-Tilt Zoom (PTZ) feature, minimum focal length 5X with night vision facility and tamper proof mechanism" at suitable locations to display effluent discharge points and connect the same with Environment Surveillance Centre, M.P. Pollution Control Board Bhopal for remote surveillance.
- 2. Project management shall comply the updated standards/guidelines/directions/recommendations issued by Honorable Supreme Court/High Court/NGT/MoEFCC/CPCB & MPPCB.
- 3. Record of quantity of stabilization agents (if any) used per month for stabilization of different waste received at captive SLF along with type of pretreatment given (if any), name and quantity of stabilization agents used; shall be submitted to Board by 5th day of every month.
- 4. Captive SLF management shall daily monitor the leachate, for presence of heavy metal like lead cadmium (Hexavalent) Chromium (trivalent) Copper, Iron ,Manganese, zinc, Nickel etc.
- 5. Daily soil cover of 15 cm shall be provided on the quantity of stabilized waste disposed off every day. Quantity of soil used for daily covering shall also be recorded and submitted to Board along with the details of stabilization agents (if any).
- 6. Project management shall have to follow all the safety measures as per OSEP approved by the Deptt. of industrial Health & Safety.
- 7. Project proponent shall maintain piezometric holes all around the SLF premises in all directions to detect and assess the ground water contamination.
- 8. Project proponent shall regularly collect and analyze ground water samples from tube wells of nearby area to detect and assess the trend of ground water contamination.
- 9. Project management shall submit the monthly reports, annual reports and quarterly protocol performance reports to CPCB/MPPCB.
- 10. Extensive tree plantation shall be carried out around the periphery of SLF.





- 11. Project management shall make proper arrangement for safe disposal through garland drains and collection tank around secured landfill only after proper treatment within prescribed standards.
- 12. Project management shall take adequate precautionary measures before and during operation, maintenance and cleaning of pollution control equipment to avoid any accidental hazard.

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and the Authorization under Hazardous and Other Wastes (Management & Transboundary movement) Amended Rule, 2016 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorization. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

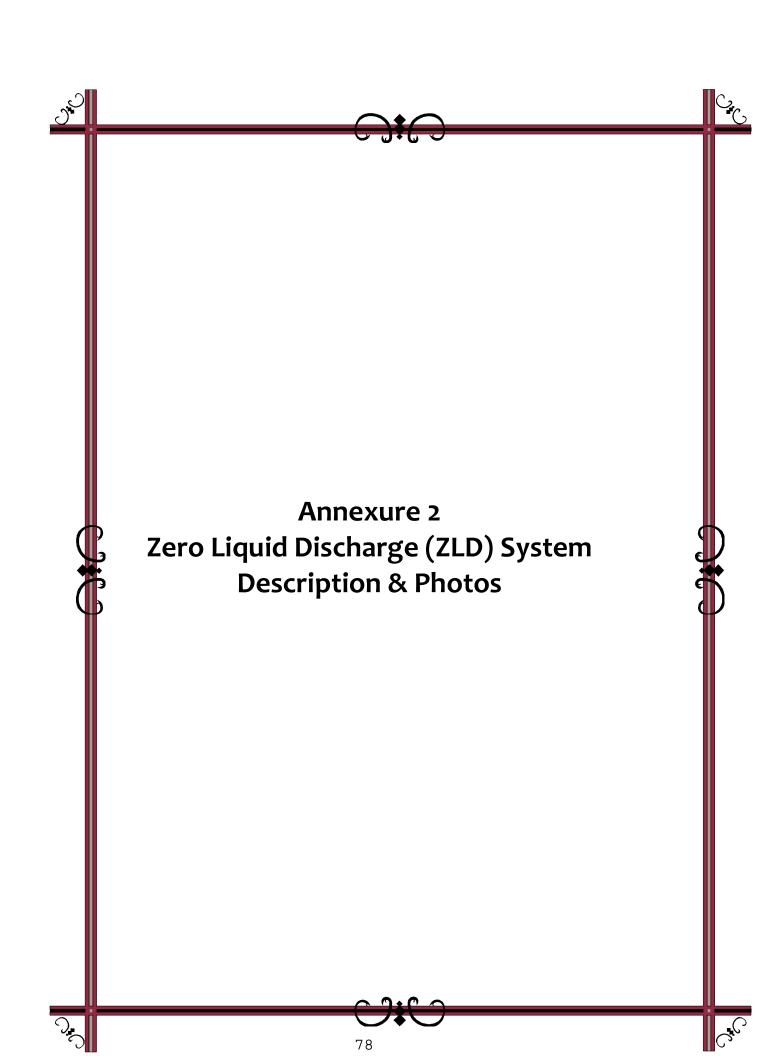
For and on behalf of M.P. Pollution Control Board

By the order of Chairman, MPPCB

Seeding from UIDAI
Security
Digitally Sign with Audhaur

(Organic Authentication on AADHAR from UIDAI Server) TPAV # O8SD8HEJ9E CHANDRA MOHAN THAKUR Member Secretary

mthakul



Grasim has achieved Zero Liquid Discharge (ZLD) status onMarch 31<sup>st</sup> 2018. Initially prepare water balance and decided to optimize water consumption and minimize effluent generation with 3R approach i.e. Re-use, Reduce and Recycle.

# Segregation & Collection System

Different type of water generate in different processes segregate from storm water and collection system prepared in each area and water pumped to ETP through conduit pipe system for further treatment.

# Up gradation of Effluent Treatment Plant

The effluent treatment plant have manual control for pH correction and TSS removal. To strengthen the system and ensure proper treatment of effluent 1000 KLD capacity Effluent Treatment Plant has been installed with auto control dosing system of different chemical. New equipment has been installed like Pipe mixture, floculator, Lamella Clarifier and Filter press, sand and activated carbon filter for removal of suspended particle. The suspended matter after clarification in lamella clarifier passed through filter press to get sludge and dispose of in secured landfill.

#### **Double Stage Effluent RO Plant**

To achieve ZLD status double stage RO plant of 600 KLD capacity has been installed which comprises of Ultra Filtration system, brackish water RO and Sea Water RO. The treated effluent passed through BWRO where 60 % permeate water received having TDS below 100 mgpl, while reject again feed into the SWRO to get further 60 % permeate water having TDS below 200 mgpl. All permeate water received as above are using in different cooling towers while reject of SWRO treat through MEE and ATFD plant.

#### **MEE & ATFD**

To treat reject of SWRO unit has installed MEE and ATFD plant having capacity 120 KLD. The SWRO reject feed in Multi Effect Evaporator plant under vacuum to get 85 % water as condensate having TDS below 100 mgpl while concentrate feed in Agitated Thin Film Dryer to get condensate having TDS below 200 mgpl and dry salt.

### **Online PTZ Camera**

Unit has also installed online PTZ camera and flow meter at outlet to meet CPCB guideline for ZLD unit which is connected with CPCB and MPPCB server for real online monitoring.





**Effluent Treatment Plant** 

Grasim Industries Limited - Nagda





Lamella Clarifier with Sand & Carbon Filter





Filter Press



Ultra Filtration System



**Chemical Dosing System** 

CIP System for RO Cleaning

Grasim Industries Limited - Nagda



Grasim Industries Limited – Nagda

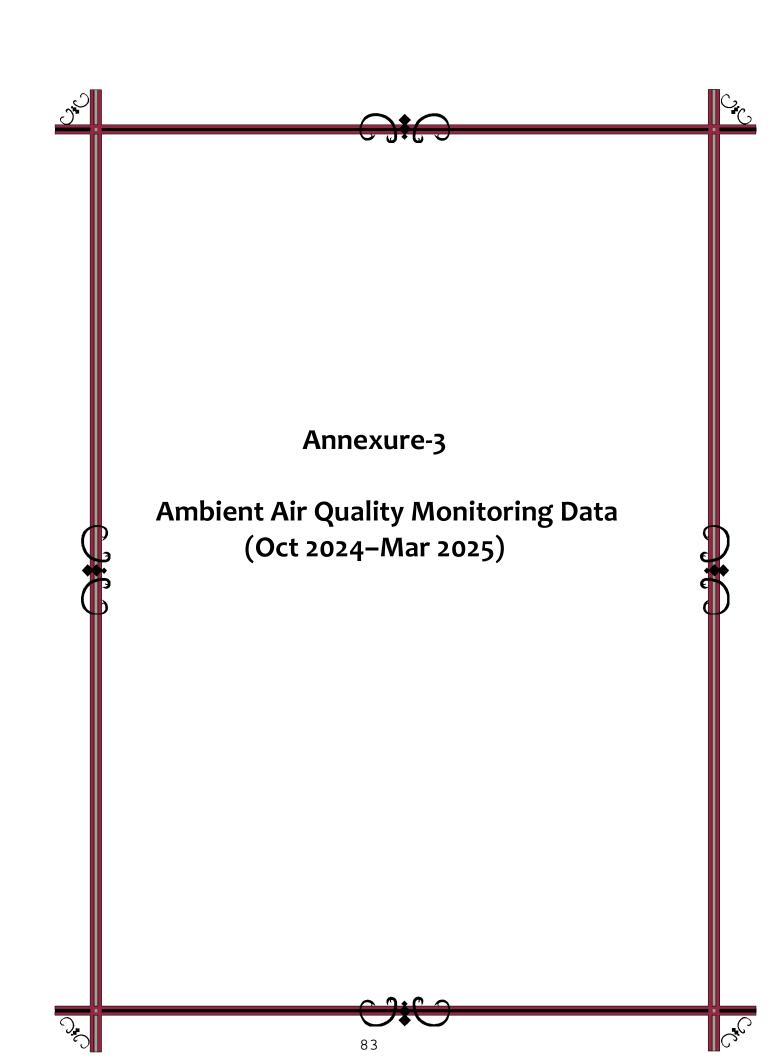
**MEE Plant** 





ATFD Plant

Grasim Industries Limited - Nagda



Expansion of Caustic Chlorine Products from and value-added derivatives along with installation of new chloromethane plant, at Village: Birlagram, Tehsil: Nagda, District: Ujjain, Madhya Pradesh

Half Yearly Compliance Report (October, 2024- March, 2025)

# Annexure-3

	Ambient Air Quality Monitoring Results												
October-2024													
Parameters	PM <sub>2.5</sub>	PM <sub>10</sub>	NOx	SO <sub>2</sub>	Ozone	Lead	со	NH₃	Benzen e	ВаР	Arsenic	Nickel	Chlorine
Unit	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	ng/m3	ng/m3	ng/m3	μg/m3
Sampling Location							Results	3					
Gyan Kutir	38.7	69.4	21.5	10.9	20.4	BDL (DL 0.02)	0.68	21.6	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
Membrane Caustic Soda Plant-2	35.8	68.5	19.2	10.8	23.4	BDL (DL 0.02)	0.62	20.4	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
Bora Godown Area	37.5	79.8	26.4	12.2	21.5	BDL (DL 0.02)	0.63	23.8	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
Pardi Gate	40.2	81.5	21.8	9.5	20.4	BDL (DL 0.02)	0.73	18.7	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
NAAQS*	60	100	80	80	180	1	**	400	5	1	6	20	
					Jan	uary-2025							
Parameters	PM <sub>2.5</sub>	PM <sub>10</sub>	NOx	SO <sub>2</sub>	Ozone	Lead	CO	NH₃	Benzene	BaP	Arsenic	Nickel	Chlorine
Unit	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	ng/m3	ng/m3	ng/m3	μg/m3
Sampling Location							Results	3					
Gyan Kutir	31.3	56.2	17.4	8.8	16.5	BDL (DL 0.02)	0.60	17.5	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
Membrane Caustic Soda Plant-2	30.4	58.2	16.3	9.2	19.9	BDL (DL 0.02)	0.54	17.3	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
Bora Godown Area	33.4	71.0	23.5	10.9	19.1	BDL (DL 0.02)	0.61	21.2	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
Pardi Gate	36.6	74.2	19.8	8.6	18.6	BDL (DL 0.02)	0.70	17.0	BDL (DL 1.0)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 1.0)	BDL (DL 10.0)
NAAQS*	60	100	80	80	180	1	**	400	5	1	6	20	

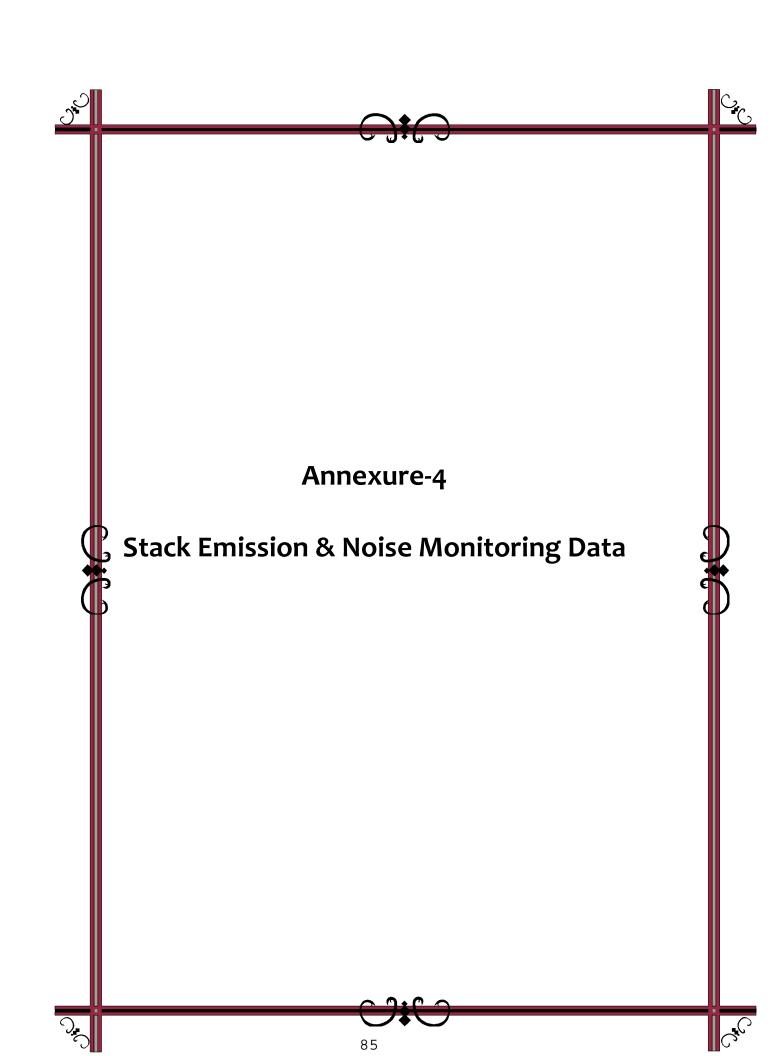
Note: \*National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 18.11.2009, \*\* CO Limit as per CTO is 2 mg/m3

#### Abbreviations:

PM<sub>2.5</sub> : Fine Particulate Matter

PM<sub>10</sub> : Respirable Suspended Particulate Matter

NO2 : Nitrogen Dioxide
SO2 : Sulphur Dioxide
CO : Carbon Monoxide
NH3 : Ammonia
BaP : Benzo (a) Pyrene
BDL : Below Detection Limit
DL : Detection Limit



Expansion of Caustic Chlorine Products from and value-added derivatives | Half Yearly Compliance Report along with installation of new chloromethane plant, at Village: Birlagram, Tehsil: Nagda, District: Ujjain, Madhya Pradesh

(October, 2024- March, 2025)

# Annexure-4

# STACK EMISSION MONITORING RESULTS

Parameter	Unit	Limit	DG Set 2000 KVA (Near CAP Area)	DG Set 2000 KVA (Near VAP Area)	DG Set 2000 KVA (Near CAP Area)	DG Set 2000 KVA (Near VAP Area)
			Octobe	r-2024	January	-2025
Particulate Matter	mg/Nm <sup>3</sup>	75	59.4	45.21	54.5	38.2
Oxides of Nitrogen (as NO <sub>2</sub> )	ppmv	710	192.41	184.56	186.54	179.44
Sulphur Dioxide	mg/Nm³		19.72	12.64	14.37	11.08
Carbon Monoxide	mg/Nm <sup>3</sup>	150	82.80	80.5	77.61	77.95
Carbon Dioxide	%		2.0	1.9	2.8	2.4
Hydrocarbon as Methane	mg/Nm <sup>3</sup>	-	13.85	11.24	12.16	10.82
Non-Methane Hydrocarbon as C	mg/Nm³	100	10.26	9.56	9.59	8.30

Note: Limit as per Environment (Protection) Rules, 1986

All results are corrected at 15% O2 level.

	Parameters					
Sampling Locations	Particulate Matter (mg/Nm³)	Hydrochloric Acid (mg/Nm³)	Chlorine (mg/Nm³)	Particulate Matter (mg/Nm³)	Hydrochloric Acid (mg/Nm³)	Chlorine (mg/Nm³)
		October-2024			January-2025	
Spray Dryer Stack-I, Poly Aluminium Chloride Plant	10.3	8.2		7.8	8.0	
Spray Dryer Stack-II, Poly Aluminium Chloride Plant	13.4	8.0		11.4	8.0	
Spray Liquid Stack, Poly Aluminium Chloride Plant		8.2			8.2	
Stable Bleaching Powder Stack (Phase 1&2)	9.5		7.2	6.7		7.5
Stable Bleaching Powder Stack (Phase 3&4)	9.4		7.2	8.9		7.6
Chlorinated Paraffin Plant		7.2			7.2	
Chlorinated Paraffin Stack			BDL (DL 1.0)			BDL (DL 1.0)
Calcium Chloride Stack		7.8			8.2	
Caustic Soda Plant-I, Furnace-H Stack		8.0			7.6	
Caustic Soda Plant-I, Furnace-G Stack		8.9			8.8	
Caustic Soda Plant-I, Sodium Hypo Chlorine Stack			7.2			7.5
Caustic Soda Plant-II, HCI Furnace-50 TPD Stack		6.2			6.4	
901-A Water Scrubber		7.0			7.1	
Caustic Soda Plant-II, Sodium Hypo Chlorine Stack			6.9			7.3

Note: BDL: (Below Detection Limit), DL: (Detection Limit)

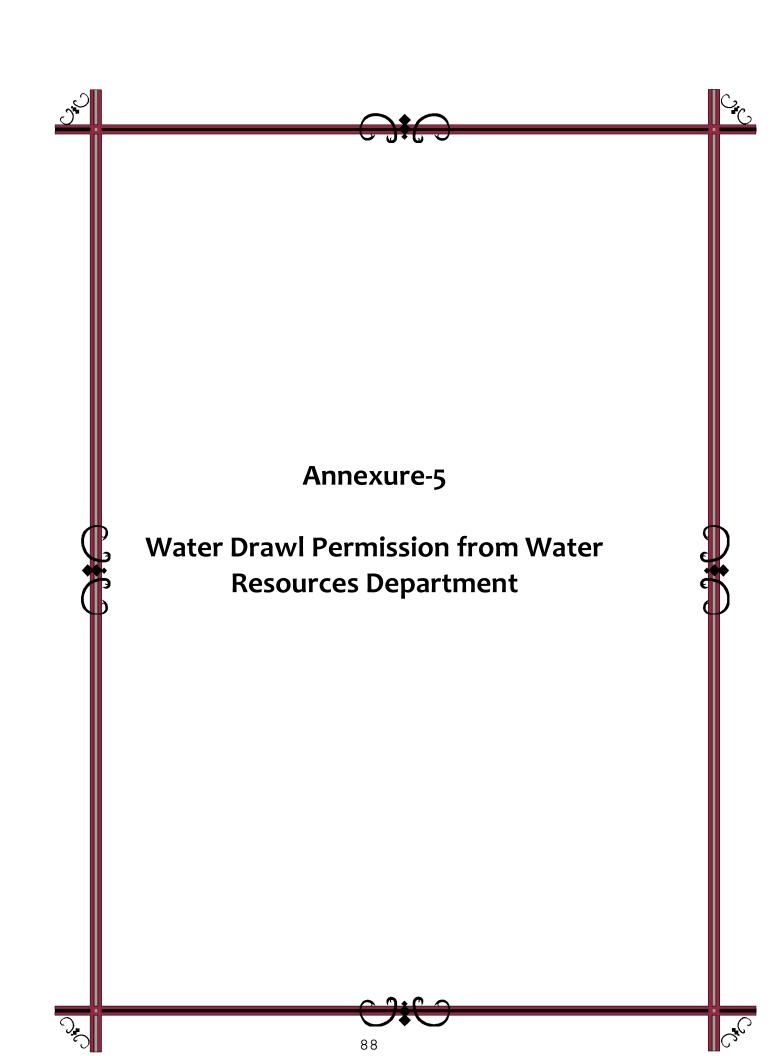
Expansion of Caustic Chlorine Products from and value-added derivatives | Half Yearly Compliance Report along with installation of new chloromethane plant, at Village: Birlagram, Tehsil: Nagda, District: Ujjain, Madhya Pradesh

(October, 2024- March, 2025)

# **DG NOISE MONITORING RESULTS**

Parameter	Unit	DG Set 2000 KVA (Near CAP Area)	DG Set 2000 KVA (Near VAP Area)	DG Set 2000 KVA (Near CAP Area)	DG Set 2000 KVA (Near VAP Area)	
		Octobe	r-2024	January-2025		
Leq (Open Acoustic Enclosure)	dB(A)	98.9	98.7	99.5	98.6	
Leq (Close Acoustic Enclosure)	dB(A)	70.4	71.1	72.2	70.5	
Insertion Loss	dB(A)	28.5	27.6	27.3	28.1	

Note: Acoustic enclosure shall be designed for minimum 25 dB (A) insertion loss under the Environment (Protection) Act, 1986



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AGREEMENT FORM FOR SUPPLY OF WATER TO INDUSTRIAL / POWER PLANTS FORM-7 A (See rule 71-A)

agreement as decimal.

This agreement made on this day **01.04.2011** between the Governor of Madhya Pradesh acting through <u>Executive Engineer</u> Water Resources Department (here in after referred to as M.P.W.R.D.) which expression shall where the context so admits, include his successors assigned in the office of the first part and <u>Grasim Industries</u> include his successors assigned in the Indian Companies Act 1955 (No. 1 of 1956) and <u>Ltd.</u> A company registered under the Indian Companies Act 1955 (No. 1 of 1956) and having its registered office at <u>Birlagram</u>, <u>Nagda</u> (herein after referred to as "the Company") which expression shall unless excluded by or repugnant to context meaning there of be deemed to include its successors assigned of the other part.

Where as the company has applied to the Government for permission to draw 1.25 Mcum (1250000 Cum) of water per month from the Chambal River at Nagda (herein after referred to as" the said self constructed water source") for the use by the company's Grasim Industries Ltd. Plant located at Birlagram, Nagda, district utiain (herein after referred to as "the said plant" and laying underground and surface pipes and drains for discharge of factory effluent).

And where as the Government has agreed to grant the aforesaid permission to the company to use water from "the said self constructed water source" at their own cost on the terms and conditions hereafter appearing.

And whereas prior to the execution of these presents, the company has deposited with the Government, the sum of Rs 37.50 Lakhs (Rs Thirty seven lakh Fifty Thousand Only) being the water rates for the quantity of water to be drawn by the company in three months.

And whereas it has been agreed that the said sum of Rs 37.50 Lakhs (Rs Thirty Seven Lakh Fifty Thousand Only) will not bear any interest,

Now this agreement witness as under,

(1) In Consideration of the company duly making payment to the government as herein after specified and duly observing and performing the covenants and conditions both herein contained Government hereby give permission to the company to draw 1250000 Cum of water per month from the said self constructed water source to the company's said plant commencing six months before commissioning of the plant and for a term 30 years from the date of commissioning of the last unit. But during the pre commissioning period charges will be recovered as per actual use of water. The permission hereby granted shall be subject to the provisions of Madhya Pradesh Irrigation act 1931 (3 of 1931) amendments thereof and any executive orders issued in this behalf by the government from time to time and for the time being in force.

(A)

Dr. Prakash Maheshwari Group Executive President Grasim Industries Limited Birisgram - 456331 (M.P.) अवक में स्टिप्ट केंगे। अवक में स्टिप्ट केंगे। अवक में स्टिप्ट केंगे।

School Francisco President Green Britishs Limited Ed & San H50331 (MR) (2) The company shall pay to the government water rates for water draws by it from said self constructed water source at the rates fixed by water resources department memo no. 18/1/91/m/31/400 dated 14.02.2006 which is Fifteen palse per cum.
(Note: the rates, which are going to apply to the company, must be shown and not other rates). For the quantities drawn in excess of agreed quantities and for any unauthorized drawl of water, 50% (Fifty percent) additional rates shall be charged in addition to the normal rates as specified above.

Government hereby reserves the right to revise the rates from time to time the said water rates to be paid by the company and company shall pay such revised water rates as may be fixed by government from time to time. Excepting the circumstances or short water supply specified in clause 4, the company shall any event, pay water charges for at least 90% of the total quantum of water to be drawn by under clause (1)

- (3) Where ever needed the company shall make its own arrangements at its own cost to use water either by construction of any civil engineering work which may include construction of pick up weir, barrage, dam, dug well, tube well etc. the design and drawing of such civil engineering facility will be prepared and submitted by the company for approval of the Water Resource Department. The concerning Chief engineer will give his decision with in thirty days. The decision of chief engineer shall be final.
- (4) Subject to the terms and conditions of this agreement nothing herein contained shall be deemed to imply any guarantee on the part of the government the uninterruptability in the supply of water during an event of force Majeure. The government shall also not responsible for such non supply or inadequate supply of water as a result of any event of force Majeure or for damages or for losses due to any event of Force Majeure. During an event of Force Majeure, the company shall not be liable for payment of any water charges except those pertaining to water already received for by the company for which payment is due and unpaid, which amount shall remain due and payable in accordance with terms of this agreement. Force Majeure shall include droughts and other similar natural disasters, war or other disasters which are beyond control of state government.
- (5) The company/corporation shall pay adequate compensation as determined by the competent authority to any person/persons affected due to submergence of land, property, public facilities etc. by the construction of the civil engineering works for creating the source of water supply.

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(6) The water from said self constructed water source shall be used by the company for the purposes of the company's said plant including water supply to the colony and shall not be misused by the company by sale of water to other customer. In event of any such sale of water by the company, without prejudice to the government's right to revoke this

Dr. Prakash Maheshwari Group Executive President Grastm Industries Umited Birtogram - #56331 (M.P.) Dr. Prakash Mchoshwart orp Executive Prosident Gracim Industries Limited Bir igram - 456321 (N.P.) license, government shall be entitled to recover from the company, the proceeds of such sale of water realized by the company.

- (7) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners nor shall it in any way, prejudice government's right to hereafter launch or implement any new scheme or schemes of its own at, on or in connection with the present source of the said self-constructed water source. However Government of Madhya Pradesh hereby assures that any other water rights granted by them for the purposes of irrigation or any other industrial purposes shall be granted in a manner so as not to affect the availability of required water for the project through out the term of this agreement.
- (8) The company shall not construct the civil engineering works viz pickup weir, barrage, reservoir, dam, dug well, tube well and lifting arrangements etc in the said water source unless the proposals, plant drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the government and while granting its approval to the construction of the civil engineering works viz pickup weir, barrage, reservoir, dam, dug well, tube well and lifting arrangements etc government may impose such conditions as it may in its absolute discretion think fit.
- (9) The arrangement for measurement of water drawn by the company from the said water source shall be made by the company in such a manner as may be directed by the government. The automatic measuring device shall be installed and maintained by the company at its own cost after obtaining prior approval there to in writing from the executive engineer. In event of measuring device so installed by the company as aforesaid, ceases to function or goes out of order, the charges which the company would be liable to pay to government in respect of consumption of water for the days measuring device does not work shall be calculated alternatively on the basis of maximum hourly pumping capacity multiplied by the number of hours of operation of those pumps for which it will be obligatory for the company to maintain the records.
- (10) The company shall treat the effluent (Discharge of water after use) for all the impurities ferrous and other chemicals and shall appropriately purify the water as per Central Government Public Health Environmental Engineering Organisation water supply manual, which specifies the standard of potable water.

(11) Within thirty days from the date monthly demands are received by the company from Executive Engineer, the company shall pay to the Executive Engineer the amount of water rates for the water drawn by the company during the proceeding month. Interest at the rate of 24% (Twenty Four percent) per year shall be recovered if the payment is not done with in three months from the date of the bill for water supplied. Non payment of

Dr. Prakash Maheshward Group Executive President Grasim Industries Umited Birlagram - 456331 (M.P.) the bills upto three months from the due date of payment shall be treated as the breach of agreement.

- (12) The company shall always keep deposit with the Executive Engineer the said sum of Rs 37,50,000/-( Three times of contracted monthly bill of contracted quantity of water) as security for due and proper payment of the water rates and due observance and performance of the terms and conditions herein. In event of failure by the company to duly pay the aforesaid dues, the outstanding due from the company shall be adjusted against the said deposit. On default of the company to punctually the water rates for a period of three months as aforesaid, the government shall with out prejudice to its any other rights and remedies, be entitled to terminate this agreement forthwith.
- (13) Without prejuidice to any other, its remedies and powers of the government, any sum due and payable by the company, under these presents shall be recoverable from the company in the same manner as an arrear of land revenue under the provisions of law for the time being in force in that behalf.
- (14) No existing irrigation interests under the river, spring, channels and irrigation wells, shall be prejudiced. If in the opinion of the government such existing interests are prejudiced, the company shall pay such compensation to the concerned person or persons whose interests are affected as may be determined by the government.
- (15) The company shall all times allow an officer of Water Resource Dpartment of the government of Madhya Pradesh authorized in that behalf, to inspect the measuring device as well as the water accounts and furnish to the government, copies of entries from the records maintained by the company.
- (16) Any notice or other documents to be given to or served upon the company there under, may be given or served by the government and any such notice or documents shall be deemed to have been duly given to or served upon the company if it is sent by registered post or delivered at the registered office of the company.
- (17) If company commits a breach of any of the terms and conditions hereof government shall be entitled to terminate this agreement after giving it opportunity to being heard and there upon the company shall discontinue draw water from "the said self constructed water source" with out government being liable for payment of any compensation whatsoever to

(18) On the expiry of the term of this agreement government may renew this agreement for such further period and on such terms and conditions as the government may as per provisions of law or mutual agreements

Dr. Prakash Maheshwari Group Executive President Grasim Industries Umited Birl Igram - 456331 (M.P.)

737

- (19) The cost and incidental charges incurred in the execution of this agreement including stamp duty shall be borne and paid by the company.
- (20) Order No......dated......( for water allocation and executive instruction etc.) will also form the part of this agreement.

#### (21) SETTLEMENT OF DISPUTES

# (21.1) Mutual Discussions

The parties to the agreement agree that all disputes touching upon or arising out of this agreement including interpretation of Any of the clauses of this agreement, the respective rights and obligation of the parties or non performance of obligations on the part of any party shall be amicably resolved by mutual negotiations.

# (21.2) Arbitration

If after sixty days of commencement of such negotiations, the parties have been unable to resolve amicably a contract dispute, such dispute or difference shall br referred to Arbitration under the provisions of the "Arbitration and Conciliation Act 1996". The award of arbitration panel shall be final and binding on the parties.

#### (22) SPECIAL CONDITIONS

- (22.1) Company shall draw water from the four dams constructed by the company across non perennial river Chambal and the reservoir at village Takrawada. The source of water shall termed as "Self Constructed water source" in view of water resources Department memo no. 18/1/91/m/31/400 dated 14.02.2006 for the purpose of payment of water charges.
- (22.2) As per state government's order no. CB/31/karya/Rast/03/1190 Dated 08.10.2003 issued by the Water Resource Department of Government of Madhya Pradesh the said. "Self Constructed water Source" as described above in point no 22.1 has been created solely to meet company's industrial and drinking water requirement of industrial township, Birlagram. Moreover, Nagda and Khachrod Municipalities and Western Railways at Nagda are permitted to draw drinking water from company's Self Constructed water source.
- (22.3) Subject to change in quantity monthly drawl of water by the company every year, this agreement shall be valid for a period of 30 years commencing from 01.05.1998, the date from which rates of water charges for "Self Constructed Water Source" are notified by the government.

by the government assistant action (22.4) The duantity of water drawn shall be measured at intake well of the company of the c

(22.5) The Company shall comply with the conditions for treating effluent as prescribed by M.P. Pollution Control Board.

Dr. Prakash Maheshward Group Executive President Grasim Industries Limited Birlagram - 456331 (M.P.)

- (23) Assignment of this agreement Pursuant to the provisions of assignment in the PPA and implement agreement, the company may also assign any of its rights hereur the extent such assignment is made to the lenders subject to the of the consent agreement between GOMP and such lenders.
- (24) Waiver 24 (a) No waiver by either party of any default by the other in the performance of any of the provisions of this agreement.
  - a. Shall operate or be construed as a waiver of any other or further default whether of a like or different character; or
  - b. Shall be effective unless or any occasion to insist upon the perforised representative of such party.
  - 24 (b) The failure of either party on any occasion to insist upon the terms, conditions and provisions of this agreement, or time or other indulgence granted by one party to the other, shall not there by act as a waiver of such breach or acceptance of any variations.
- (25) IN WITNESS WHERE OF Executive Engineer W.R.D. UJJAIN Division has for and behalf of Government of Madhya Pradesh hereto set his hand and affixed the seal of the office and common seal of the here upto affixed on the day and year first herein above written.

		V
SIGNED	SEALED	DELIVERED
(by Executive Enginee Governor of Madhya Pra	r, Water resource division, UJJAIN adesh in presence of)	For and on behalf of
1		
2		
directors of the compa	Fwas pursuant to the reso any dated theand thereof have hereto set their resp	Directors of the
	Capping Circuit	

Group Executive President Grasim Industries Limited

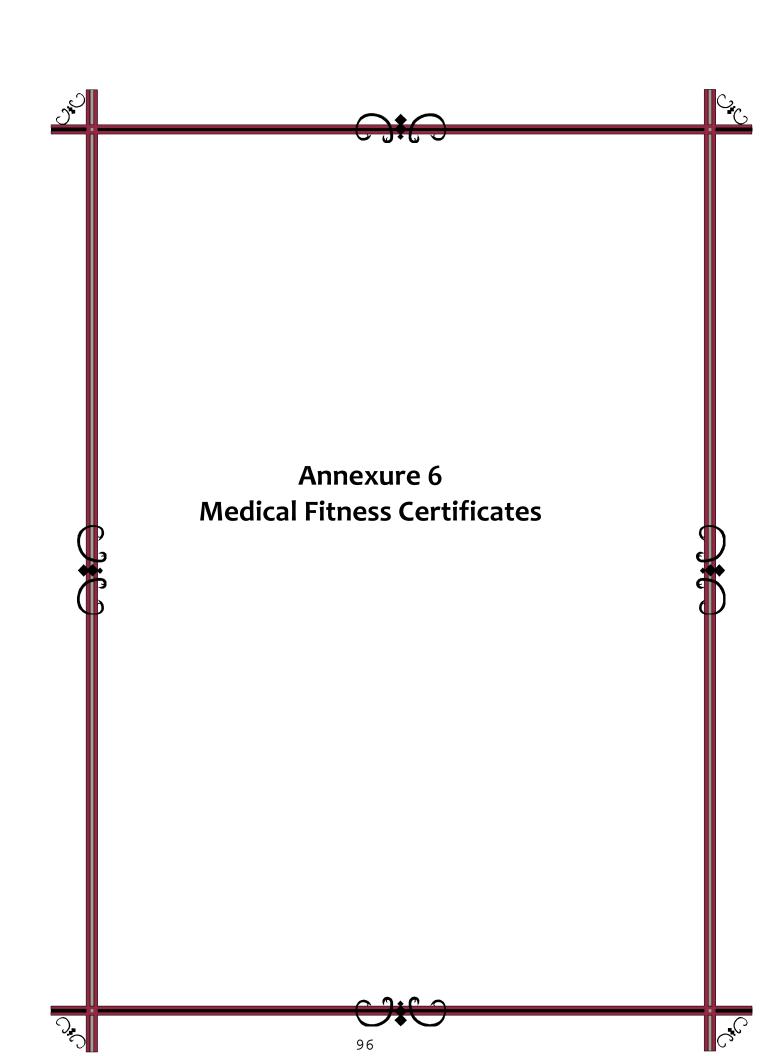
Birl: gram - 456331 (M.P.)

Witness signature

- (Rajush Sharma)

By order and in the name Of the Governor of Madhya Pradesh

> Dr. Prakash Meheshwan Louis Exercise President Design 1291 (c.5c) mess)



# FORM 32

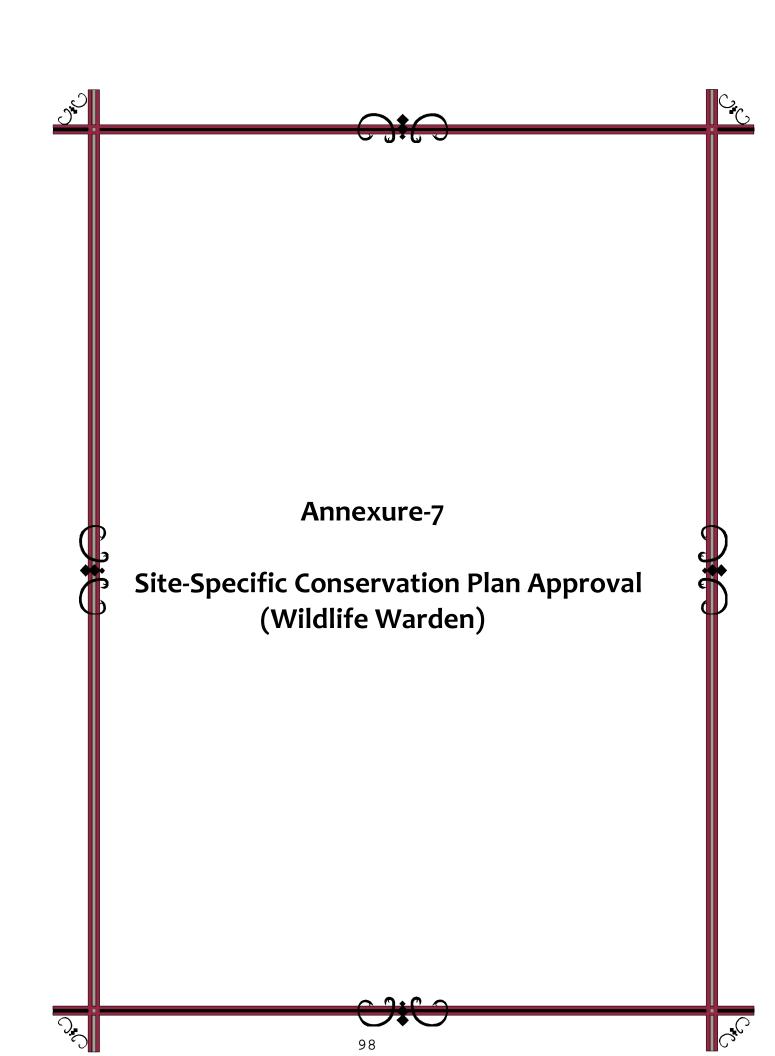
# **Certificate of Fitness**

(Prescribed under Rule 107 of Madhya Pradesh Factory Rules,1962) Counterfoil

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Note: - (1) The counter file should be retained and maintained by the Certifying Surgeon

(2) The para which does not apply may be cancelled.





Date: 29.12.2022

Ref. No.: 1850/Env/SFD/DFO/PCP

To

**Principal Chief Conservator of Forest,** Pragati Bhavan, Bhopal Vikas Pradhikarn, 3<sup>rd</sup> Floor, MP Nagar, Bhopal, Madhya Pradesh

Subject: Wild Life Conservation Plan - Expansion project of Viscose Staple fiber Division and Chemical Division at village: Mehatwas, Birlagram, Tehsil: Nagda, District: Ujjain, Madhya Pradesh of M/s. Grasim Industries Limited (Staple Fiber Division)-

- **Reference:** 1. Our letter number ENV/SFD/DFO/PCP/1315 dated 01/11.2018
  - 2. Your Letter No. 7157 dated 09.10.2019.
  - 3. Our letter number 1929A/Env/SFD/DFO/PCP dated 05.10.2022
  - 4. Your letter number 9610 dated 13/12/2022 from Principal Chief **Conservator of Forests**

Respected Sir,

Thanks for your early response regarding payment for the conservation of Peacock bird within 10 KM radius around project expansion project as committed in wild life conservation plan.

In reference to the aforesaid subject and reference letters dated 13.12.2022, please find the enclosed the cheque of HDFC Bank drawn in favor of "MP Tiger Foundation Society 10571048460" having cheque number 400240015 dated 27.12.2022 amounting to Rs. 24.20,000 (Rupees twenty-four lacs twenty thousand only) towards Wild life conservation plan submitted for a period of 10 years for the expansion projects of Grasim Viscose Staple Fiber Division and Grasim Chemical Division at village: Mehatwas, Birlagram, Tehsil: Nagda.

Hope you find this in order.

Thanking you

Sachin Samar

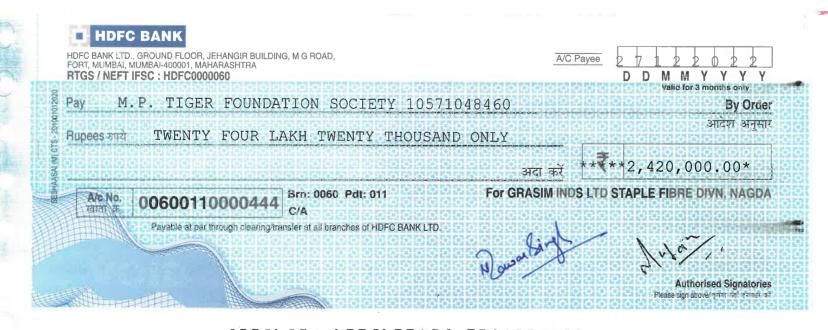
Vice President (Environment)

1. Divisional Forest Officer, General Forest Division, Ujjain, Madhya Pradesh

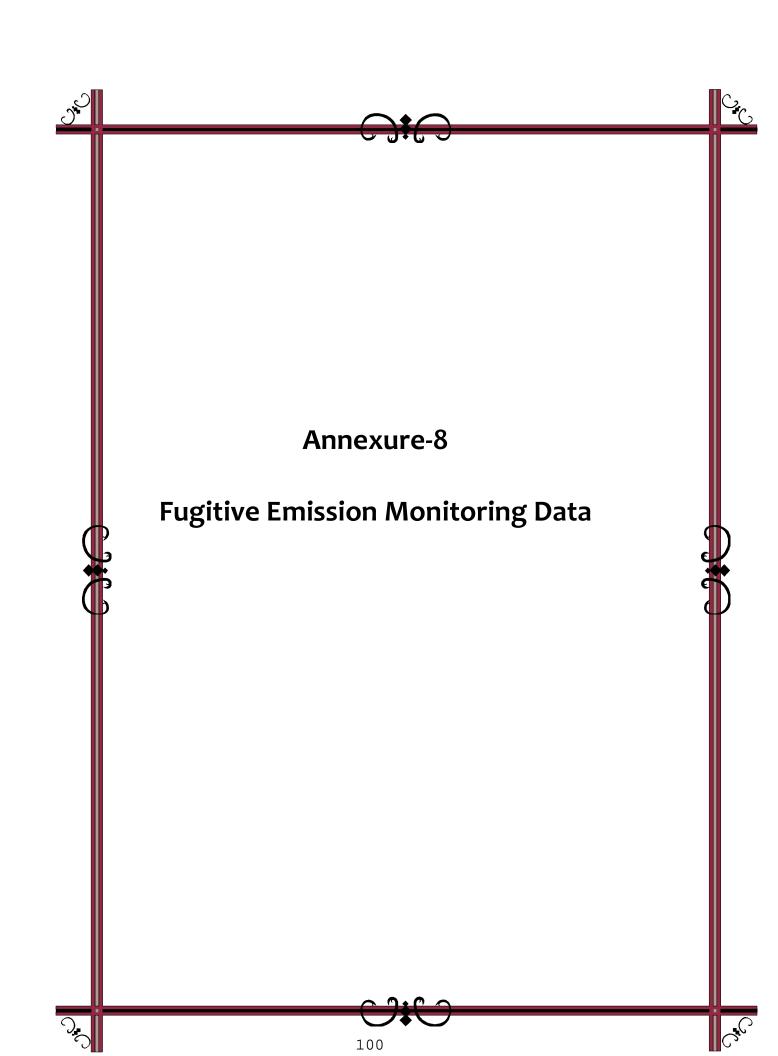
2. Grasim Chemical Division, Nagda, MP

Staple Fibre Division

Birlagram - 456 331, Nagda (M.P.) INDIA Tele: +91 7366 246760-64 Fax: +91 7366 246024, 244114 CIN: L17124MP1947PLC000410 Website: www.adityabirla.com E-mail: grasim-sfd.nagda@adityabirla.com Regd. Office: P.O. Birlagram, Nagda - 456 331 (M.P.)



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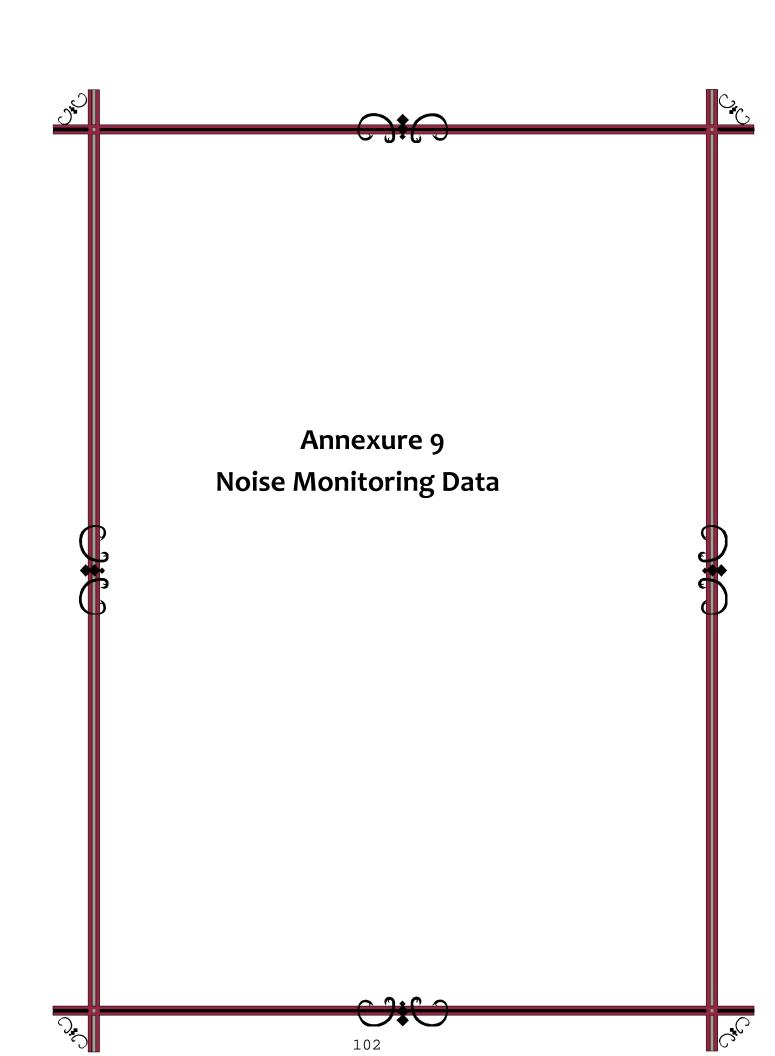
Expansion of Caustic Chlorine Products from and value-added derivatives along with installation of new chloromethane plant, at Village: Birlagram, Tehsil: Nagda, District: Ujjain, Madhya Pradesh

Half Yearly Compliance Report (October, 2024- March, 2025)

# **Annexure-8**

# **FUGITIVE DUST EMISSION RESULTS**

Compliant costion	Parameter	Unit	Results		
Sampling Location		Unit	October-2024	January-2025	
Membrane Caustic Soda Plant- 2 (Near HCL Plant)		μg/m³	122.0	120.0	
Membrane Caustic Soda Plant- 1		μg/m³	110.0	125.0	
Chlorinated Paraffin (CP Plant) Near Control Room		μg/m³	136.0	116.0	
Calcium Chloride Plant (Near Control Room)	SPM	μg/m³	118.0	123.0	
Stable Bleaching Powder (SBP Plant)		μg/m³	140.0	135.0	
Poly Aluminium Chloride (PAC Plant)		μg/m³	124.0	118.0	



Expansion of Caustic Chlorine Products from and value-added derivatives along with installation of new chloromethane plant, at Village: Birlagram, Tehsil: Nagda, District: Ujjain, Madhya Pradesh

Half Yearly Compliance Report (October, 2024- March, 2025)

Annexure-9

# **AMBIENT NOISE LEVEL MONITORING RESULTS**

Sampling Area: ZLD (Near RO Plant)

Location	Leq Day	Leq Night	Leq Day	Leq Night	Unit
	October-2024 January-2025				
Near RO Plant	62.2	53.8	61.0	51.1	dB(A)

Sampling Area: Poly Aluminium Chloride Plant

Location	Leq Day	Leq Night	Leq Day	Leq Night	Unit
	October-2024 January-2025				
Near Godown area	65.2	62.5	63.9	59.4	dB(A)
Near PAC Control Room	67.9	58.2	66.5	55.3	dB(A)
Near Mechanical Workshop	69.7	60.2	68.3	57.2	dB(A)
Near Bleed Water Tank (Liquid Plant)	67.2	62.5	65.9	59.4	dB(A)
Near Cooling Tower Area	71.5	63.4	70.1	60.2	dB(A)

Sampling Area: Calcium Chloride Plant

	Test Results				
Location	Leq Day	Leq Night	Leq Day	Leq Night	Unit
	Octob	er-2024	Janua	ry-2025	
Near Control Room	62.7	58.4	61.4	55.5	dB(A)
Near Storage Tank	65.2	57.9	63.9	55.0	dB(A)
Near Slurry Area (Sludge Area)	71.5	62.5	70.1	59.4	dB(A)
Near Ware House (Godown)	65.8	57.2	64.5	54.3	dB(A)
Near Cooling Tower	70.1	62.5	68.7	59.4	dB(A)

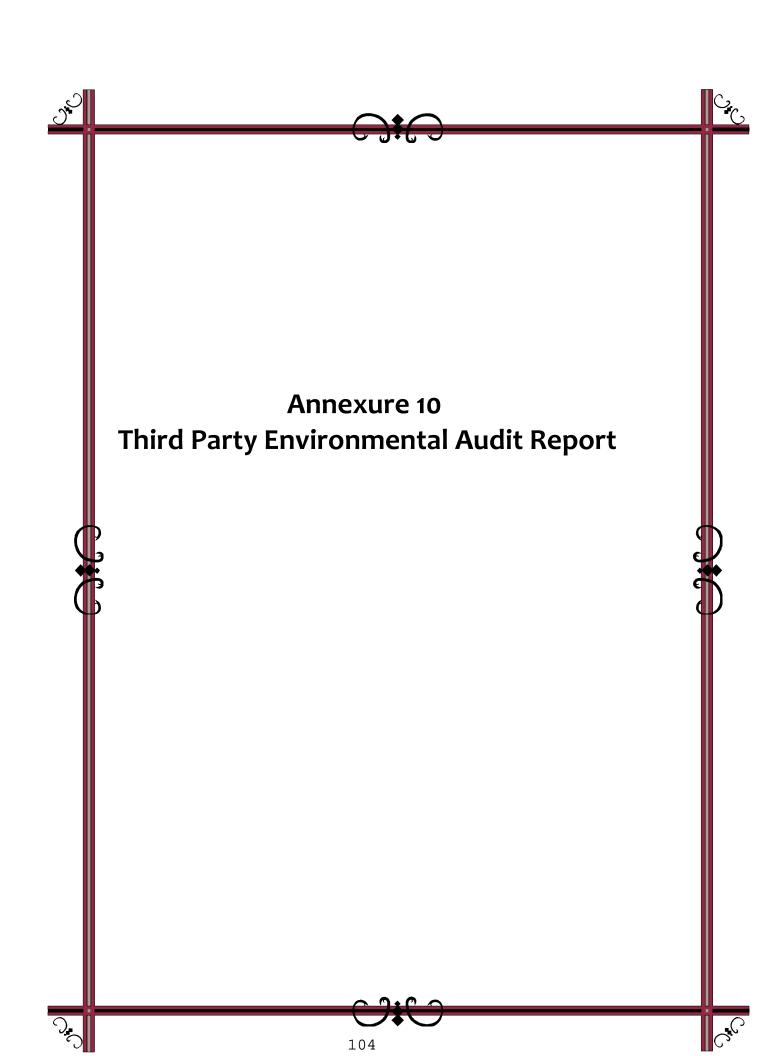
Sampling Area: Stable Bleaching Powder Plant

Location	Leq Day	Leq Night	Leq Day	Leq Night	Unit
	Octob	er-2024	Janua	ry-2025	
Near SBP Ware House I (Near Drum)	62.8	51.5	61.5	48.9	dB(A)
Near SBP Ware House II (Near Drum)	64.3	52.7	63.0	50.1	dB(A)
Near Mechanical Workshop	60.9	49.2	59.7	46.7	dB(A)
Near Cooling Tower (1st Phase)	70.2	62.4	68.8	59.3	dB(A)
Near Cooling Tower (2nd Phase –	69.5	61.0	68.1	58.0	dB(A)
Near Roadside)	09.5	69.5			ub(A)
Lime Godown Area (Near Hopper)	60.2	48.4	59.0	46.0	dB(A)

Sampling Area: Chlorinated Paraffin

		Test Results				
Location	Leq Day	Leq Night	Leq Day	Leq Night	Unit	
	Octob	er-2024	January-2025			
Near C.P. Loading Area	69.5	59.8	68.1	56.8	dB(A)	
Near Tank Area	60.6	48.9	59.4	46.5	dB(A)	
Near Cooling Tower	69.2	62.4	67.8	59.3	dB(A)	
Near Ware House	60.8	51.5	59.6	48.9	dB(A)	
Plant Area (1st Floor)	70.9	61.7	69.5	58.6	dB(A)	

CPCB Limits in dB(A) Leq	Leq Day	Leq Night	Unit
(Industrial area)	75.0	70.0	dB(A)





#### **Environmental Audit of Caustic Soda Plant**

At Birlagram, Nagda, District - Ujjain (Madhya Pradesh)



**Environmental Audit Report** 

# CHAPTER - 4 CONCLUSION

#### 4.1 CONCLUSION:

The findings given in this report area based on the review of documents and data provided to the team, site visits of different sections of plant and interactions with plant personnel.

Some Observations for Environment Part have been recorded in the different areas during audit. Observations have been categorized on the basis of their direct/indirect impact on the Business, Environment and human Health.

The overall environmental management of the plant is good but there is a scope for further improvement. The current good practices can be formalized and a framework can be setup for monitoring and implementation of the action plans for continuous improvement in the management system.

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