

Half Yearly Compliance Report**2024****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

Proposal Name	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)		
Name of Entity / Corporate Office	Grasim Industries Ltd. (Chemical Division)		
Village(s)	N/A		
District	UJJAIN		
Proposal No.	IA/MP/IND2/26969/2015	Category	Industrial Projects - 2
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	MADHYA PRADESH	Entity's PAN	*****4464B
MoEF File No.	J-11011/119/2015-IA-II (I)	Entity name as per PAN	GRASIM INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office	Grasim Industries Ltd. (Chemical Division)	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	61.92	61.92
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	61.92	61.92

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Compressed Hydrogen	Tons per Annum (TPA)	N/A	1460	450	
2	Chlorinated Paraffin	Tons per Annum (TPA)	N/A	45645	15825	
3	Hydrochloric Acid (100 percent)	Tons per Annum (TPA)	N/A	135000	41707	
4	Sodium Hypochlorite	Tons per Annum (TPA)	N/A	90000	2265	
5	Stable Bleaching Powder	Tons per Annum (TPA)	N/A	54750	31470	
6	Caustic Soda	Tons per Annum (TPA)	N/A	450000	242861	
7	Calcium Chloride (100 percent)	Tons per Annum (TPA)	N/A	54000	15157	
8	Chlorine	Tons per Annum (TPA)	N/A	365000	179932	
9	Poly Aluminium Chloride	Tons per Annum (TPA)	N/A	165000	16792	
10	Hydrogen	Tons per Annum (TPA)	N/A	11400	7141	
11	Chloro Sulphonic Acid	Tons per Annum (TPA)	N/A	23400	501	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	The storm water from the premises shall be collected and discharged through a separate conveyance system.
PPs Submission: Complied Complied. A separate stormwater conveyance system has been implemented to collect and discharge stormwater safely, ensuring no cross-contamination with other water streams. Rain water harvesting system showing phot is attached as Annexure 8.		Date: 03/12/2024
2	WASTE MANAGEMENT	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.
PPs Submission: Complied Hazardous chemicals being stored in tanks, tanks farms, drums, carboys etc. Flame arresters has been provided on tank farm, and solvent through pumps. The details of Hazardous chemicals storage are provided in Annexure 9.		Date: 03/12/2024
3	Statutory compliance	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.
PPs Submission: Complied The industry fully complies with the requirements set by the State Pollution Control Board and possesses all valid consents and authorizations issued by the Madhya Pradesh Pollution Control Board (MPPCB). Consent to Operate has been obtained under the Water (Prevention and Control of Pollution) Act, 1974, and the Air (Prevention and Control of Pollution) Act, 1981 Ref: Application Receipt No. 1299811 Dt.22/08/2023. A copy of the Consent to Operate is enclosed as Annexure 1.		Date: 03/12/2024
4	Statutory compliance	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.
PPs Submission: Complied Noted. This Environmental Clearance (EC) shall remain subject to any orders or judgments issued by the Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble National Green Tribunal (NGT), or any other court of law, as applicable.		Date: 03/12/2024
5	WASTE MANAGEMENT	As already committed by the project proponent, ZLD shall be ensured and no waste/treated water shall be discharged outside the premises.
PPs Submission: Complied The Unit 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) gitated Thin Film Dryer (ATFD) A detailed note on the Zero Liquid Discharge system is attached as Annexure 2 for reference.		Date: 03/12/2024
6	Statutory compliance	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.
PPs Submission: Complied 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 Annexure 3		Date: 03/12/2024
7	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied To control source emissions and fugitive emissions, M/s. Grasim has installed suitable pollution control devices to meet prescribed norms and comply with the National Ambient Air Quality Standards (NAAQS). In handling chemicals, all necessary precautions have been taken to prevent		Date: 03/12/2024

<p>fugitive emissions, including secure storage arrangements for chemicals. Gaseous emissions are dispersed through stacks of adequate height, in line with CPCB/SPCB guidelines. The industry conducts regular ambient air quality and stack emission monitoring to ensure operations remain within prescribed limits. Ambient air quality monitoring results for the period from April 2024 to September 2024 are provided in Annexure 4, and stack emission monitoring results for the same period are attached as Annexure 5. Summary of the pollution control and mitigation measures adopted by M/s. Grasim is Provided in Annexure 6.</p>		
8	WASTE MANAGEMENT	<p>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 percent 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.</p>
<p>PPs Submission: Complied No solvent is being used in any of the processes.</p>		<p>Date: 03/12/2024</p>
9	AIR QUALITY MONITORING AND PRESERVATION	<p>Odour shall be prevented at the source and effective odour management scheme shall be implemented.</p>
<p>PPs Submission: Complied Duly noted and complied. Odor prevention measures have been implemented at the source, along with an effective odor management plan to ensure compliance with the condition.</p>		<p>Date: 03/12/2024</p>
10	Statutory compliance	<p>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.</p>
<p>PPs Submission: Complied The Total fresh water requirement will not exceed 5400 cubic meter/day and is met from Chambal River. The copy of the water drawl permission from Chambal River provided by Water Resource department is enclosed as Annexure 7.</p>		<p>Date: 03/12/2024</p>
11	WATER QUALITY MONITORING AND PRESERVATION	<p>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.</p>
<p>PPs Submission: Complied The industry has implemented a Zero Liquid Discharge (ZLD) system to maximize water utilization through reuse and recycling, ensuring minimal dependency on fresh water sources. As a responsible organization, we have constructed six rainwater harvesting structures across the staff colony and nearby villages to further enhance water conservation. Additionally, no borewells are present on the plant premises.</p>		<p>Date: 03/12/2024</p>
12	WASTE MANAGEMENT	<p>ETP Sludge, process inorganic and evaporation salt shall be disposed through Captive Secured Land fill.</p>
<p>PPs Submission: Complied Hazardous waste authorization has been obtained from MPPCB, and the waste is being disposed of in accordance with prescribed guidelines. ETP sludge, process inorganics, and evaporation salts are securely disposed of through the captive secured landfill, as per the condition. A photo of the secured landfill site is provided below in Annexure 9A for reference.</p>		<p>Date: 03/12/2024</p>

13	WASTE MANAGEMENT	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.
PPs Submission: Complied 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.		Date: 03/12/2024
14	WASTE MANAGEMENT	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 closed 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.
PPs Submission: Complied Following waste minimization measures are taken in the plant- 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 the Poly aluminum Chloride plant and Calcium Chloride plant. Water Scrubber are used for absorption of HCl vapors 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 adopted in ZLD plant to clean calendria.		Date: 03/12/2024
15	GREENBELT	The green belt of at least 5-10 m width shall be developed in more than 33 percent 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.
PPs Submission: Complied Regular plantation activities have been done in the Grasim complex. Out of the total plant area, 58.5 acres (23.68 ha) i.e., 38 percent has already developed and maintained under greenbelt/ plantation. List of the Plant Species in Greenbelt is given below: Acacia auriculiformis, Alstonia acholaris (Devils tree), Anthocephalus cadamba (Kadam), Araucaria, Azadirachta indica (Neem), Butea frondose (Dhak), Callistemon sps. (Bottle Brush), Cassia fistala (Amaltas), Cassia siamea, Casurina, Dalbergia sissoo (Shisham), Delonix regia (Gulmohar), Dillenia indica (Chalta), Erythrine sps. (Pangra), Gliricidia, Ficus bengalensis (Bar), Ficus elastica, Ficus benjamina, Ficus sps., Grevillea robusta (Silver oale), Jacaranda, Kigelia pinnata, Lagerstromia sps. (Sawani), Milingtonia horstensis (Akash Neem), Mimusops elengi (Molsari), Parkia, Peltophorum, Leuceana latisiliana (Subabul), Polyalthia pendula (Ashok), Plumeria sps. (Champa), Saraca indica (Sita Ashok), Putramiva, Santalum album (Chandan), Apathodia campanuleta (Fountain tree), Terminalia arjuna (Arjun), Terminalia catappa, Thespesia populnea (Paras Pipal), Pongamia glabra (Karanj), Bamboo sps., Bauhinia sps., etc. Glimpse of plantation and green belt in the complex is shown in Annexure 10:		Date: 03/12/2024
16	Corporate Environmental Responsibility	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.
PPs Submission: Complied As per the proposal, the Chloromethane project has not yet been expanded by Grasim Industries Ltd.		Date: 03/12/2024

(Chemical Division), Nagda. However, the expenditure incurred on CER activities by the company from April 2024 to September 2024 is outlined below. The CER plan will be completed within two years or before the commissioning of the project. Detail of CER Activity is Provided in Annexure 11.		
17	Noise Monitoring & Prevention	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.
PPs Submission: Complied The industry has 2 DG sets of capacity 2000 KVA each with adequate stack height which are used during emergency backup. Acoustic enclosure is provided to DG set for controlling the noise pollution. For the DG sets, emission limits and the stack height are/will be in conformity with the extant regulations and the CPCB guidelines. The DG Stack emission report can be seen in Annexure 5. DG Set photograph Showing adequate stack height and acoustic encloser is attached in Annexure 5A.		Date: 03/12/2024
18	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.
PPs Submission: Complied Adequate arrangement for protection of possible fire hazards during manufacturing process in material handling is being made in the industry. Few precautions are as follows: a) Flame arrestors are provided at various places in the system. b) 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. a) Fire Hydrant Points are also located around the plant. b) Employees are regularly trained in firefighting. Photograph Showing GRCD is Shown in Annexure 12.		Date: 03/12/2024
19	Statutory compliance	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.
PPs Submission: Complied Continuous online (24x7) monitoring system for stack emissions has been installed and same is connected to MPPCB and CPCB server. For ZLD, the unit has installed web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. Photographs showing online Monitoring System are Provided in Annexure 13		Date: 03/12/2024
20	WASTE MANAGEMENT	Transportation of Hazardous materials / products should be carefully performed using GPS enabled vehicles.
PPs Submission: Complied We are taking care of all safety measures during transportation of hazardous material/products		Date: 03/12/2024
21	Risk Mitigation and Disaster Management	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.

PPs Submission: Complied 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.			Date: 03/12/2024
22	Statutory compliance	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.	
PPs Submission: Complied 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 provided in Annexure 15.			Date: 03/12/2024
23	AIR QUALITY MONITORING AND PRESERVATION	Storage of Raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	
PPs Submission: Complied All raw materials are stored in designated, covered godowns to ensure proper protection and safety.			Date: 03/12/2024
24	ENERGY PRESERVATION MEASURES	The energy source for lighting purposes shall preferably be LED based.	
PPs Submission: Complied The energy source for lighting purposes is LED based both for street light and in plant premises.			Date: 03/12/2024
25	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per the Factories Act. PP shall submit the six-monthly compliance report to the Regional Office of the Ministry.	
PPs Submission: Complied Healthy and 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. Medical report and medical camp photo of worker is attached as Annexure 14 for reference. Grasim Industries Ltd. commits to create and maintain safe and healthy work environment for employees, against hazards and risks through: a) Continuously developing and maintaining safe work practices. b) Focusing on operational and occupational hazards and risks. c) Creating awareness about preventive health and safety measures. Six monthly compliance report is being/ will be submitted to the regional office of the MOEFCC.			Date: 03/12/2024
26	Statutory compliance	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	
PPs Submission: Complied 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 Annexure 3			Date: 03/12/2024
27	Statutory compliance	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The project proponent shall obtain clearance from the National Board	

		for Wildlife, if applicable.
PPs Submission: Complied 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.		Date: 03/12/2024
28	Statutory compliance	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
PPs Submission: Complied Industry is complying the conditions laid down by State Pollution Control Board and has valid consents and 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		Date: 03/12/2024
29	Statutory compliance	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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
PPs Submission: Complied This condition is not applicable to the project, as it does not involve any diversion of forest land for non-forest purposes.		Date: 03/12/2024
30	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Fugitive emissions within the premises are monitored quarterly by a laboratory recognized under the Environment (Protection) Act, 1986. The monitoring results for fugitive emissions are provided in Annexure-17.		Date: 03/12/2024
31	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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).
PPs Submission: Complied 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 Annexure-2.		Date: 03/12/2024
32	WASTE MANAGEMENT	Sector specific conditions as per MOEFCC OM dated 09.08.2018- Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic and evaporation salt shall be disposed off to the TSDF.
PPs Submission: Complied Hazardous waste authorization being obtained from MPPCB and waste disposed as per prescribed guidelines.		Date: 03/12/2024
33	WASTE MANAGEMENT	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.	
PPs Submission: Complied 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 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 adopted in ZLD plant to clean calendria.			Date: 03/12/2024
34	Human Health Environment	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.	
PPs Submission: Complied Requisite training on safety and health aspects of chemical handling is being provided to all employees. Routine periodical medical examinations are also conducted regularly for all staff. The medical check-up report of workers and photographs of the camp are attached as Annexure-14. Additionally, images of the training sessions are provided in Annexure 14A.			Date: 03/12/2024
35	Human Health Environment	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.	
PPs Submission: Complied 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.			Date: 03/12/2024
36	Statutory compliance	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The project proponent shall prepare a Site-Specific Conservation Plan and 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 (in case of the presence of schedule-1 species in the study area)	
PPs Submission: Complied Grasim Industries Limited has prepared a Site-Specific Conservation Plan and Wildlife Management Plan, which has been duly approved by the Chief Wildlife Warden. A copy of the approval letter is attached as Annexure-16. 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.			Date: 03/12/2024

37	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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 percent 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.
PPs Submission: Complied To control source and the fugitive emissions suitable pollution control devices are being installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions are being/ will be dispersed through stack of adequate height as per CPCB/SPCB guidelines. Stack emission monitoring results April 2024 to September 2024 has been attached as Annexure 5.		Date: 03/12/2024
38	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
PPs Submission: Complied 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 in Annexure 6:		Date: 03/12/2024
39	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied The National Emission Standards for the Organic Chemicals Manufacturing Industry, as issued by the Ministry vide G.S.R. 608(E) dated 21st July 2010 and as amended from time to time, will be strictly followed.		Date: 03/12/2024
40	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
PPs Submission: Complied The National Ambient Air Quality Standards (NAAQS) are being fully complied with. Quarterly Ambient Air Quality (AAQ) monitoring results have been conducted and are attached as Annexure- 4.		Date: 03/12/2024
41	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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 this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
PPs Submission: Complied 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 stacks given in Annexure 13 Calibration has been successfully completed by an		Date: 03/12/2024

NABL-accredited laboratory, ensuring the accuracy and reliability of the monitoring equipment. Details are Provided on Annexure 13.		
42	WASTE MANAGEMENT	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Hazardous chemicals being stored in tanks, tanks farms, drums, carboys etc. Flame arresters has been provided on tank farm, and solvent through pumps. The details of Hazardous chemicals storage are provided in Annexure 9.		Date: 03/12/2024
43	PUBLIC HEARING	Sector specific conditions as per MOEFCC OM dated 09.08.2018- Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
PPs Submission: Complied The Emergency preparedness plan and Disaster Management Plan is being/will be implemented in the Grasim Industry Limited.		Date: 03/12/2024
44	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied As of now the fresh water consumption is approx. 2596 KLD. Permission for water drawl from Chambal River given by Water resource Department, Ujjain dated 1-06-2006 is attached as Annexure 7.		Date: 03/12/2024
45	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
46	ENERGY PRESERVATION MEASURES	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The energy sources for lighting purposes shall preferably be LED based.
PPs Submission: Complied Duly Noted. The energy source for lighting purposes is LED based both for street light and in the plant premises.		Date: 03/12/2024
47	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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). Submission Receipt is attached as Annexure 21A.		Date: 03/12/2024

48	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
49	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Duly Noted		Date: 03/12/2024
50	GREENBELT	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The green belt of 5-10 m width shall be developed in more than 33 percent 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.
PPs Submission: Complied Regular plantation activities have been done in the Grasim complex. List of the Plant Species in Greenbelt is given below: Acacia auriculiformis, Alstonia acholaris (Devils tree), Anthocephalus cadamba (Kadam), Araucaria, Azadirachta indica (Neem), Butea frondose (Dhak), Callistemon sps. (Bottle Brush), Cassia fistala (Amaltas), Cassia siamea, Casurina, Dalbergia sissoo (Shisham), Delonix regia (Gulmohar), Dillenia indica (Chalta), Erythrina sps. (Pangra), Gliricidia, Ficus bengalensis (Bar), Ficus elastica, Ficus benjamina, Ficus sps., Grevillea robusta (Silver oale), Jacaranda, Kigelia pinnata, Lagerstromia sps. (Sawani), Milingtonia horstensis (Akash Neem), Mimosa elengi (Molsari), Parkia, Peltophorum, Leuceana latisiliana (Subabul), Polyalthia pendula (Ashok), Plumeria sps. (Champa), Saraca indica (Sita Ashok), Putranjiva, Santalum album (Chandan), Apathodia campanuleta (Fountain tree), Terminalia arjuna (Arjun), Terminalia catappa, Thespesia populnea (Paras Pipal), Pongamia glabra (Karanj), Bamboo sps., Bauhinia sps., etc. Glimpse of plantation and green belt in the complex is shown in Annexure 10.		Date: 03/12/2024
51	PUBLIC HEARING	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
PPs Submission: Complied Adequate arrangement for protection of possible fire hazards during manufacturing process in material handling is made in the industry. Few precautions are as follows: a) Flame arrestors are provided at various places in the system. b) 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. c) Fire Hydrant Points are also located around the plant. d) Employees are regularly trained in firefighting.		Date: 03/12/2024
52	PUBLIC HEARING	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
PPs Submission: Complied The Personal Protection Equipment (PPE) as per the norms of Factory Act are provided to the employees by Grasim Industry Limited.		Date: 03/12/2024
53	Corporate Environmental	Sector specific conditions as per MOEFCC OM dated 09.08.2018-

	Responsibility	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.111 dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
PPs Submission: Complied Noted.		Date: 03/12/2024
54	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied The status of compliance with the stipulated environmental clearance conditions, including the results of monitored data, has been uploaded on the company website. This information will be updated on a half-yearly basis.		Date: 03/12/2024
55	Statutory compliance	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
56	AIR QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 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 degree each), covering upwind and downwind directions.
PPs Submission: Complied Grasim Industries Limited has successfully installed Ambient Air Quality monitoring stations. The corresponding photographs are provided below. Additionally, the quarterly third-party monitoring results for Ambient Air Quality are enclosed as Annexure-4. Also photograph showing online monitoring system is Provided in Annexure 4A.		Date: 03/12/2024
57	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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).
PPs Submission: Complied To ensure Zero Liquid Discharge (ZLD), the unit has installed web cameras with night vision capability and flow meters in the channels and drains carrying effluent within the premises. A detailed note on Zero Liquid Discharge is attached as Annexure-2.		Date: 03/12/2024
58	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied The Plant is operating on Zero liquid discharge; hence no such effluent is discharged outside the plant.		Date: 03/12/2024
59	WATER QUALITY MONITORING AND PRESERVATION	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Industry has adopted zero liquid discharge system for maximum utilization of water through reuse/recycling. As a responsible industry, we have installed 6 no. rain water harvesting structures in staff colony and villages		Date: 03/12/2024
60	Noise Monitoring & Prevention	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
61	Noise Monitoring & Prevention	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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
PPs Submission: Complied 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 Annexure 18.		Date: 03/12/2024
62	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied The copies of environmental clearance are being submitted to the concerned offices.		Date: 03/12/2024
63	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024

64	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Grasim Industry Limited has advertised in local newspaper regarding the receipt of EC from MoEFCC. The copy of newspaper advertisement is enclosed below. The copy of EC has been uploaded on the Companys website. (www.grasim.com) Screenshot of advertised in local news paper is provided in Annexure 20.		Date: 03/12/2024
65	Corporate Environmental Responsibility	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Separate environmental cell has been developed in the industry having a team of qualified personnel. The Hierarchy of EMS in Annexure 19.		Date: 03/12/2024
66	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
67	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
PPs Submission: Complied No further expansion or modifications in the unit are being carried out without prior approval from the Ministry of Environment, Forests and Climate Change (MoEFCC).		Date: 03/12/2024
68	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
69	Human Health Environment	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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
PPs Submission: Complied 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 Annexure 15.		Date: 03/12/2024
70	Corporate Environmental Responsibility	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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 MoEFCC as a part of six-monthly report.
PPs Submission: Complied 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 MoEFCC as part of the six-monthly report.		Date: 03/12/2024
71	Corporate Environmental Responsibility	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied An action plan for implementing the Environmental Management Plan (EMP) and 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.		Date: 03/12/2024
72	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
PPs Submission: Complied The Ministry reserves the right to stipulate additional conditions if deemed necessary. The company will implement these conditions in a time-bound manner.		Date: 03/12/2024
73	Corporate Environmental Responsibility	Sector specific conditions as per MOEFCC OM dated 09.08.2018- Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall he carried out.
PPs Submission: Complied Duly Noted The Self environmental audit is conducted annually. The recent Audit is being		Date: 03/12/2024

conducted by JM EnviroNet Pvt. Ltd, in June 2024.		
74	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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 in Annexure 21.		Date: 03/12/2024
75	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Complied The clearance may be revoked or suspended if the implementation of any of the above conditions is found to be unsatisfactory.		Date: 03/12/2024
76	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied Duly Noted		Date: 03/12/2024
77	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
PPs Submission: Complied Duly Noted		Date: 03/12/2024
78	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- 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.
PPs Submission: Complied 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.		Date: 03/12/2024
79	Human Health Environment	Sector specific conditions as per MOEFCC OM dated 09.08.2018- Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied Healthy and 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. Fitness certificate of the workers and camp is attached as Annexure 14 for reference. Grasim Industries Ltd. commits to create and maintain safe and healthy work environment for employees, against hazards and risks through: a) Continuously developing and maintaining safe work practices.		Date: 03/12/2024

b) Focusing on operational and occupational hazards and risks. c) Creating awareness about preventive health and safety measures.			
80	Noise Monitoring & Prevention	Sector specific conditions as per MOEFCC OM dated 09.08.2018- Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	
PPs Submission: Complied Acoustic enclosure is provided to DG set of the industry for controlling the noise pollution.			Date: 03/12/2024
81	MISCELLANEOUS	Sector specific conditions as per MOEFCC OM dated 09.08.2018- The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and 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.	
PPs Submission: Complied Duly Noted			Date: 03/12/2024
General Conditions			
Sr.No.	Condition Type	Condition Details	
1	Statutory compliance	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.	
PPs Submission: Complied Duly noted. The compliance with the sector-specific conditions, as outlined in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August 2018, has been addressed in this report. The compliance with the generic conditions, as mentioned in the same memorandum, is provided after the compliance of the specific conditions			Date: 03/12/2024
2	Statutory compliance	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974; Air (Prevention and 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.	
PPs Submission: Complied Duly Noted.			Date: 03/12/2024
3	MISCELLANEOUS	This issues with the approval of the competent authority.	

PPs Submission: Complied Duly Noted.		Date: 03/12/2024
4	Statutory compliance	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 and Climate Change, its regional office, Central Pollution Control Board and State Pollution Control Board.
PPs Submission: Complied Duly noted. The six-monthly compliance report is being submitted to the concerned offices, including the Ministry of Environment, Forest and Climate Change (MoEFandCC), the Regional Office, the Central Pollution Control Board (CPCB), and the State Pollution Control Board (SPCB).		Date: 03/12/2024
5	MISCELLANEOUS	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.
PPs Submission: Complied 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.		Date: 03/12/2024
6	Statutory compliance	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.
PPs Submission: Complied We acknowledge the Ministry right to impose additional conditions if required and confirm that the project proponent will implement these in a timely manner. We understand that environmental clearance may be revoked or suspended if compliance is unsatisfactory.		Date: 03/12/2024
7	Statutory compliance	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.
PPs Submission: Complied 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.		Date: 03/12/2024
8	Statutory compliance	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.
PPs Submission: Complied 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.		Date: 03/12/2024

Visit Remarks

Last Site Visit Report Date:

N/A

Additional Remarks:

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.



Ref. No. ³²².....

Date 28.11.2024

To,

Member Secretary,
Madhya Pradesh Pollution Control Board,
Paryavran Parisar, E-5, Arera colony,
Bhopal-462016

Sub: Reg. submission of Half yearly compliance report (April 2024, -September, 2024)
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

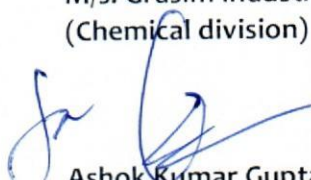
Dear Sir,

With reference to aforesaid subject & reference matter, we are herewith submitting **Half yearly EC compliance report (April 2024, -September, 2024)** 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

Grasim Industries Limited

Chemical Division

Birlagram - 456 331, Nagda (M.P.) INDIA Tele: +91 7366 246760-66 Fax: +91 7366 246176, 246767
E-mail: grasimchem@adityabirla.com Website: www.adityabirlachemicals.com CIN: L17124MP1947PLC000410
Regd. Office: P.O. Birlagram, Nagda - 456 331 (M.P.)

HALF YEARLY COMPLIANCE REPORT

APRIL 2024 TO SEPTEMBER 2024

FOR

**GRASIM INDUSTRIES LTD.
(CHEMICAL DIVISION)**

Expansion of Caustic chlorine products from and value-added 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)**

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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, 3rd Floor, Aliganj,
 Jor Bagh Road, New Delhi-110 003

Dated: 7th 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 30th 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-Products			
1.	Chlorine	215200	149800	365000
2.	Hydrochloric Acid (100%)	79000	56000	135000
3.	Sodium Hypochlorite (100%)	53520	36480	90000
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 29th July, 2015 followed by validity extension of ToR vide letter dated 11th December, 2018. Public Hearing for the

proposed expansion project was conducted by State Pollution Control Board on 04th 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 µg/m³), PM_{2.5} (28.2 to 47.4 µg/m³), SO₂ (7.3 to 32.9 µg/m³), NO₂ (12.6 to 30.6 µg/m³), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion project would be 0.024 µg/m³, 0.085 µg/m³, 0.10 µg/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

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. 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.**
- (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

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.

- (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 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's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018.

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 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.

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.


(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(डा. आर. बी. लाल)
(Dr. R. B. LAL)

वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. 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-I 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

- 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 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. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x 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 16th 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 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved 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 report 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; PM₁₀, SO₂, NO_x (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.

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 by M/s Grasim Industries Ltd. (Chemical Division)	Half Yearly Compliance Report (April, 2024- September, 2024)
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Name of the Project: 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 by **M/s Grasim Industries Ltd. (Chemical Division)**

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

Period of Compliance: April 2024 to September 2024

Address for Correspondence: Grasim Industries Limited, Villages- Mehatwas, Birlagram, Tehsil- Nagda, District- Ujjain, Madhya Pradesh


No.	Environmental Clearance Conditions	Reply given by PP in compliance report
A	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. This Environmental Clearance (EC) shall remain subject to any orders or judgments issued by the Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble National Green Tribunal (NGT), or any other court of law, 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.	The industry fully complies with the requirements set by the State Pollution Control Board and possesses all valid consents and authorizations issued by the Madhya Pradesh Pollution Control Board (MPPCB). Consent to Operate has been obtained under the Water (Prevention and Control of Pollution) Act, 1974, and the Air (Prevention and Control of Pollution) Act, 1981 Ref: Application Receipt No. 1299811 Dt.22/08/2023. A copy of the Consent to Operate is enclosed as Annexure 1 .
(iii)	As already committed by the project proponent, ZLD shall be ensured and no waste/treated water shall be discharged outside the premises.	The Unit has achieved Zero Liquid Discharge (ZLD) as of March 31, 2018, through the implementation of the following stages: <ul style="list-style-type: none"> • 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 Annexure 2 for reference.
(iv)	Necessary authorization required under the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, Solid Waste Management	Hazardous Waste Authorization is obtained from MP Pollution Control Board and has validity up to 31.01.2027. MP Pollution Board has issued


No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	Rules, 2016 shall be obtained and the provision contained in the Rules shall be strictly adhered to.	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 Annexure 3
(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.	To control source emissions and fugitive emissions, M/s. Grasim has installed suitable pollution control devices to meet prescribed norms and comply with the National Ambient Air Quality Standards (NAAQS). In handling chemicals, 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, in line with CPCB/SPCB guidelines. The industry conducts regular ambient air quality and stack emission monitoring to ensure operations remain within prescribed limits. Ambient air quality monitoring results for the period from April 2024 to September 2024 are provided in Annexure 4 , and stack emission monitoring results for the same period are attached as Annexure 5 . Below is a summary of the pollution control and mitigation measures adopted by M/s. Grasim
Emissions Plant Unit Pollution Control/ Mitigation measures adopted		
STACK EMISSIONS		
Chlorine Vapors	Caustic Soda Membrane Cell	<ul style="list-style-type: none"> Alkali Scrubbers On-line monitoring sensors are installed Pollution control equipment's interlocked with process The entire process is DCS controlled
	Stable Bleaching Powder	<ul style="list-style-type: none"> Alkali Scrubbers Chlorine feed is controlled and no excess chlorine is fed. Chlorine sensors are placed
	Chlorinated Paraffin	<ul style="list-style-type: none"> Alkali Scrubbers Chlorine feed is controlled and no excess chlorine is fed.

No.	Environmental Clearance Conditions		Reply given by PP in compliance report
			<ul style="list-style-type: none"> Chlorine sensors are placed
HCL Vapors	Caustic Soda Membrane Cell		<ul style="list-style-type: none"> Water Scrubbers On-line monitoring sensors are installed Pollution control equipment's interlocked with process The entire process is DCS controlled
	Poly Aluminum Chloride		<ul style="list-style-type: none"> Water Scrubbers for absorption of unreacted HCL vapors in water
	Chlorinated Paraffin plant		<ul style="list-style-type: none"> Water Scrubbers
	Chlorosulphonic Acid Plant		<ul style="list-style-type: none"> Chlorosulphonic Acid Plant-Production stopped permanently from July 2023; letter submitted to MPPCB
	Calcium Chloride Plant		
SPM (Chlorine & Dust emissions)	Stable Bleaching Powder		<ul style="list-style-type: none"> Bag Filters Chlorine feed is controlled & no excess chlorine is fed Dust control systems have been provided at the filling point. De-dusting system is installed at the product filling post to minimize the SPM levels.
SO ₃ Vapors	Chlorosulphonic Acid Plant		<ul style="list-style-type: none"> Sulphuric acid scrubbers, Chlorosulphonic Acid Plant-Production stopped permanently from July 2023; letter submitted to MPPCB
FUGITIVE EMISSIONS			
HCl, Chlorine	<ul style="list-style-type: none"> Storage & handling of raw materials, solvents, finished products From equipment's leak valves, flanges, pump seals, compressors, sampling connections, open ended lines 		<ul style="list-style-type: none"> Liquid raw materials and intermediates charged into Reactors with pumps or under gravity through closed pipes. Suction Hoods placed near the Man-holes & Charging funnels of Reactors & Filters. All storage tanks of low boiling solvents / chemical with Conservation Vents. Vents of HCl storage tanks with a Water filled trap to prevent Acid fumes from escaping out. Mechanical seals to prevent fugitive emission. Storage tanks with level gauge, dyke wall, automated loading and unloading for the chemicals. Plugs, caps and blinds for open ended lines. Closed loop sampling systems.
CO ₂ and other gases	Vehicles, Open surfaces, ETP, retention ponds		<ul style="list-style-type: none"> Roads within the premises concreted / paved to avoid vehicular emissions. All transportation vehicles carry a valid PUC (Pollution under Control) Certificate. Proper servicing & maintenance of vehicles. Regular sweeping of all the roads & floors to avoid particulate matter dispersion.

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 by M/s Grasim Industries Ltd. (Chemical Division)	Half Yearly Compliance Report (April, 2024- September, 2024)
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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
(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.	No solvent is being used in any of the processes.
(vii)	Odour shall be prevented at the source and effective Odour management scheme shall be implemented.	Duly noted and complied. Odor prevention measures have been implemented at the source, along with an effective odor management plan to ensure compliance with the condition.
(viii)	Total fresh water requirement shall not exceed 5400 m ³ /day proposed to be met from Chambal River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	The Total fresh water requirement will not exceed 5400 m ³ /day and is met from Chambal River. The copy of the water drawl permission from Chambal River provided by Water Resource department is enclosed as Annexure 6 .
(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.	The industry has implemented a Zero Liquid Discharge (ZLD) system to maximize water utilization through reuse and recycling, ensuring minimal dependency on fresh water sources. As a responsible organization, we have constructed six rainwater harvesting structures across the staff colony and nearby villages to further enhance water conservation. Additionally, no borewells are present on the plant premises.
(x)	The storm water from the premises shall be collected and discharged through a separate conveyance system.	Complied. A separate stormwater conveyance system has been implemented to collect and discharge stormwater safely, ensuring no cross-contamination with other water streams.

No.	Environmental Clearance Conditions			Reply given by PP in compliance report	
					
(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.			<p>Hazardous chemicals being stored in tanks, tanks farms, drums, carboys etc. Flame arresters has been provided on tank farm, and solvent through pumps.</p> <p>The details of Hazardous chemicals storage are given below:</p>	
	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	Solid	Corrosive	Bag
		Barium Carbonate	Solid	NA	Bag
		Sodium Sulphite	Solid	Corrosive	Bag
		Caustic Soda	Liquid	Corrosive	MS tank
		Hydrochloric Acid	Liquid	Corrosive	MSRL Tank
		Sulphuric Acid	Liquid	Corrosive	MSRL
Stable leaching Powder Unit		Liquid chlorine	Liquid	Corrosive	MS tank
		Hydrated lime	Solid	Corrosive	Bag
		Caustic Soda	Liquid	Corrosive	Tank
		Chlorine	Gas	Corrosive	Pipeline
	Unit	Chemicals	Form of Material (Solid/Liquid/Gas)	Nature of Material (Corrosive/Flammable etc.)	Type of Storage
Poly Aluminium Chloride		Hydrochloric Acid	Liquid	Corrosive	MSRL Tank
		Sulphuric Acid	Liquid	Corrosive	MSRL Tank
		Chlorine gas	Gas	Corrosive	Pipeline
		Caustic Soda	Liquid	Corrosive	MS Tank
Chlorosulphonic Acid		Hydrochloric acid	Liquid	Corrosive	Production discontinued
		Sulphuric Acid	Liquid	Corrosive	

No.	Environmental Clearance Conditions		Reply given by PP in compliance report	
		Sulphur Trioxide	Gas	Corrosive
	Calcium chloride	HCl (33 %)	Liquid	Corrosive
				MSRL Tank
(xii)	ETP Sludge, process inorganic & evaporation salt shall be disposed through Captive Secured Land fill.		Hazardous waste authorization has been obtained from MPPCB, and the waste is being disposed of in accordance with prescribed guidelines. ETP sludge, process inorganics, and evaporation salts are securely disposed of through the captive secured landfill, as per the condition. A photo of the secured landfill site is provided below for reference.	
				
(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.		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.	
(xiv)	<p>The company shall undertake waste minimization measures as below: -</p> <ol style="list-style-type: none"> Metering and control of quantities of active ingredients to minimize waste. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. Use of automated filling to minimize spillage. Use of closed feed system into batch reactors. Venting equipment through vapor recovery system. Use of high-pressure hoses for equipment clearing to reduce wastewater generation. 		<p>Following waste minimization measures are taken in the plant-</p> <ol style="list-style-type: none"> 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. Hydrochloric acid is being used as raw material in the Poly aluminum Chloride plant and Calcium Chloride plant. Water Scrubber are used for absorption of HCl vapors in water is used in production of HCl. The automated system has been 	

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
		<p>implemented in all the processes.</p> <p>d) The closed feed system has been implemented in all the processes.</p> <p>e) Vapor recovery system is installed; Paraffin vapour is being recovered in CP plant using condensers.</p> <p>f) High Pressure Jet cleaning practice is being adopted in ZLD plant to clean calendria.</p>
(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.	<p>Regular plantation activities have been done in the Grasim complex. Out of the total plant area, 58.5 acres (~23.68 ha) i.e., 38% has already developed and maintained under greenbelt/ plantation.</p> <p>List of the Plant Species in Greenbelt is given below:</p> <p><i>Acacia auriculiformis</i>, <i>Alstonia acholaris</i> (Devil's tree), <i>Anthocephalus cadamba</i> (Kadam), <i>Araucaria</i>, <i>Azadirachta indica</i> (Neem), <i>Butea frondose</i> (Dhak), <i>Callistemon</i> sps. (Bottle Brush), <i>Cassia fistala</i> (Amaltas), <i>Cassia siamea</i>, <i>Casurina</i>, <i>Dalbergia sissoo</i> (Shisham), <i>Delonix regia</i> (Gulmohar), <i>Dillenia indica</i> (Chalta), <i>Erythrina</i> sps. (Pangra), <i>Gliricidia</i>, <i>Ficus bengalensis</i> (Bar), <i>Ficus elastica</i>, <i>Ficus benjamina</i>, <i>Ficus</i> sps., <i>Grevillea robusta</i> (Silver oale), <i>Jacaranda</i>, <i>Kigelia pinnata</i>, <i>Lagerstromia</i> sps. (Sawani), <i>Milingtonia horstensis</i> (Akash Neem), <i>Mimusops elengi</i> (Molsari), <i>Parkia</i>, <i>Peltophorum</i>, <i>Leuceana latisiliana</i> (Subabul), <i>Polyalthia pendula</i> (Ashok), <i>Plumeria</i> sps. (Champa), <i>Saraca indica</i> (Sita Ashok), <i>Putramiva</i>, <i>Santlun album</i> (Chandan), <i>Apathodia campanuleta</i> (Fountain tree), <i>Terminalia arjuna</i> (Arjun), <i>Terminalia catappa</i>, <i>Thespesia populnea</i> (Paras Pipal), <i>Pongamia glabra</i> (Karanj), <i>Bamboo</i> sps., <i>Bauhinia</i> sps., etc.</p> <p>Glimpse of plantation and green belt in the complex is shown as below:</p>

No.	Environmental Clearance Conditions	Reply given by PP in compliance report
		
		

No.	Environmental Clearance Conditions	Reply given by PP in compliance report
		
		
		

No.	Environmental Clearance Conditions	Reply given by PP in compliance report
(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 April 2024 to September 2024 is outlined below. The CER plan will be completed within two years or before the commissioning of the project.

S. No.	Activity Heads	Year-2024-25		Total Amount (Rs. in Lacs)
		April 24 to Jun 24	July 24 to Sep 24	
1.	Educational Programme	6.685	5.74	12.427
2.	Health Care	7.388	.190	7.573
3.	Sustainable Livelihood	2.42	.130	2.55
4.	Infrastructure Development	0	1.06	1.06
5.	Social Development	0	0	0
GRAND TOTAL		16.49	7.12	23.608





Glimpse of CER activities conducted by Grasim is shown below:



Diksha arambh Nagda Collage –Praves utsav



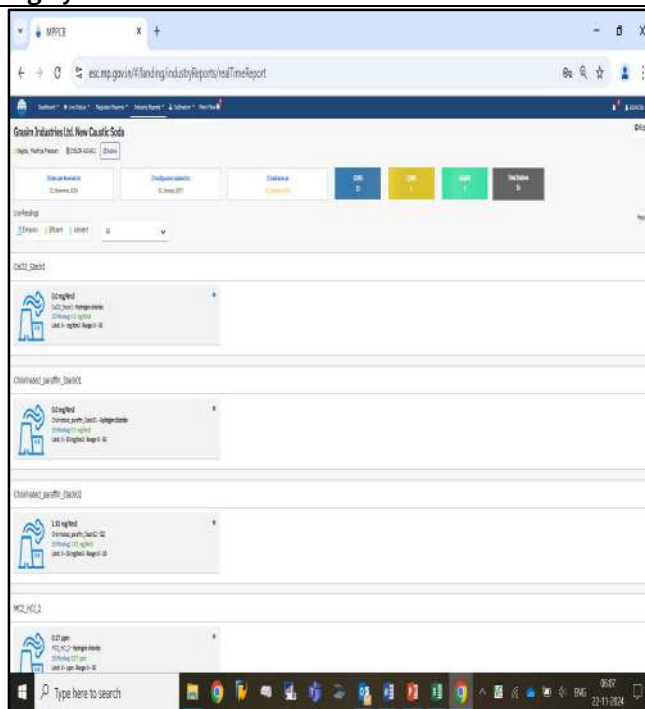
Govt. Collage Nagda Painting and Repaering work

No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	 <p>Road Reapering work in Pardi Village Road</p>  <p>Water Supply Pipe line repairing work</p>	
(xvii)	<p>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.</p>	<p>The industry has 2 DG sets of capacity 2000 KVA each with adequate stack height which are used during emergency backup. Acoustic enclosure is provided to DG set for controlling the noise pollution. For the DG sets, emission limits and the stack height are/will be in conformity with the extant regulations and the CPCB guidelines. The DG Stack emission report can be seen in Annexure 5.</p> 

No.	Environmental Clearance Conditions	Reply given by PP in compliance report
		
(xviii)	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.	<p>Adequate arrangement for protection of possible fire hazards during manufacturing process in material handling is being made in the industry. Few precautions are as follows:</p> <ul style="list-style-type: none"> ➤ 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.  <p style="text-align: center;">GRCD Fire Tender</p>
(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

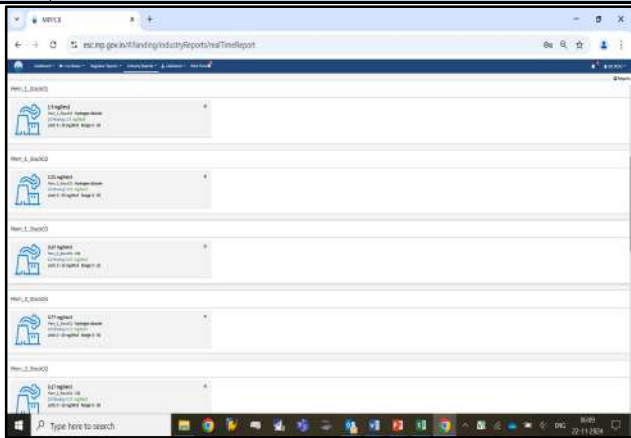
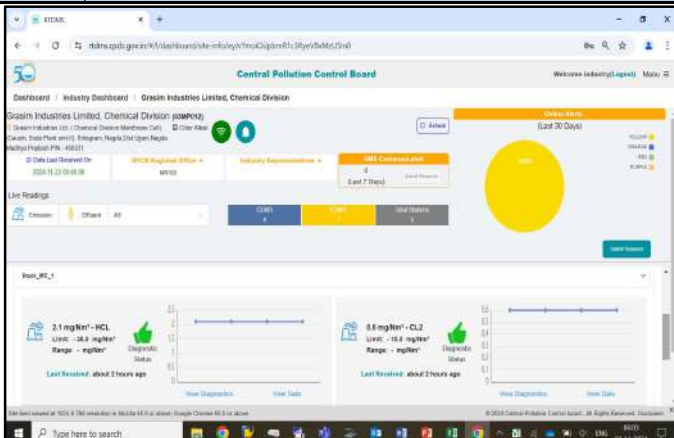
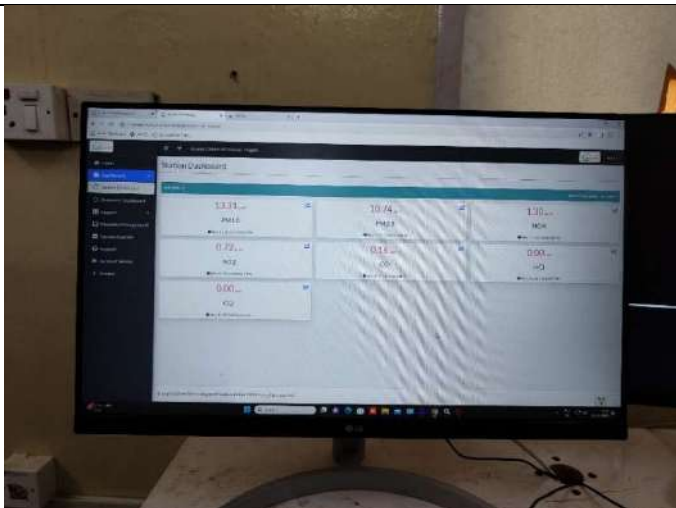
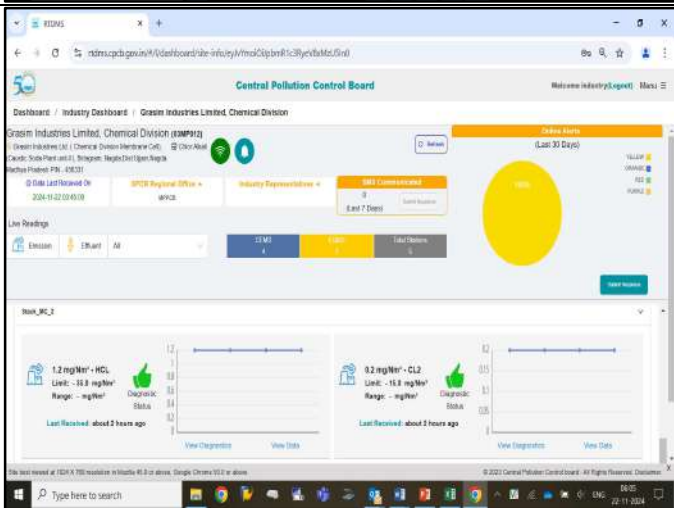
No.	Environmental Clearance Conditions	Reply given by PP in compliance report															
		materials are provided in point no. XI of the specific conditions.															
(xx)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge 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.	<p>Continuous online (24x7) monitoring system for stack emissions has been installed and same is connected to MPPCB & CPCB server.</p> <table border="1"> <thead> <tr> <th>S. No.</th><th>Description of Stacks attached to</th><th>Pollutants</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Sodium Hypo Stack; Unit 1 Caustic Soda</td><td>Cl₂</td></tr> <tr> <td>2.</td><td>HCl Stack; Unit 1 Caustic Soda</td><td>HCl</td></tr> <tr> <td>3.</td><td>Sodium Hypo Stack; Unit 2 Caustic Soda</td><td>Cl₂</td></tr> <tr> <td>4.</td><td>HCl Stack; Unit 2 Caustic Soda</td><td>HCl</td></tr> </tbody> </table> <p>For ZLD, the unit has installed web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. Photographs showing online Monitoring System are given below:</p>	S. No.	Description of Stacks attached to	Pollutants	1.	Sodium Hypo Stack; Unit 1 Caustic Soda	Cl ₂	2.	HCl Stack; Unit 1 Caustic Soda	HCl	3.	Sodium Hypo Stack; Unit 2 Caustic Soda	Cl ₂	4.	HCl Stack; Unit 2 Caustic Soda	HCl
S. No.	Description of Stacks attached to	Pollutants															
1.	Sodium Hypo Stack; Unit 1 Caustic Soda	Cl ₂															
2.	HCl Stack; Unit 1 Caustic Soda	HCl															
3.	Sodium Hypo Stack; Unit 2 Caustic Soda	Cl ₂															
4.	HCl Stack; Unit 2 Caustic Soda	HCl															

Online Monitoring System





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Online Monitoring System and Data transfer to MPPCB		
(xxi)	The energy source for lighting purposes shall preferably be LED based.	The energy source for lighting purposes is LED based both for street light and in plant premises.
(xxii)	Transportation of Hazardous materials / products should be carefully performed using GPS enabled vehicles.	We are taking care of all safety measures during transportation of hazardous material/products

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
(xxiii)	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per the Factories Act. PP shall submit the six-monthly compliance report to the Regional Office of the Ministry.	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. Medical report and medical camp photo of worker is attached as Annexure 7 for reference. Grasim Industries Ltd. commits to create & maintain safe & healthy work environment for employees, against hazards & risks through: <ul style="list-style-type: none"> ➤ Continuously developing & maintaining safe work practices. ➤ Focusing on operational & occupational hazards & risks. ➤ Creating awareness about preventive health & safety measures. Six monthly compliance report is being/ will be submitted to the regional office of the MOEF&CC.
(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	Reply given by PP in compliance report
		
	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. The compliance with the sector-specific conditions, as outlined in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August 2018, has been addressed in this report. The compliance with the generic conditions, as mentioned in the same memorandum, is provided after the compliance of 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



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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	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	
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	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 implemented in consultation with the State Forest	Grasim Industries Limited has prepared a Site-Specific Conservation Plan and Wildlife Management Plan, which has been duly approved by the Chief Wildlife Warden. A copy of the approval letter is attached as Annexure-8 .

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report									
	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 Annexure 3									
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 calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<p>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:</p> <table> <tr> <th>S. No.</th><th>Description of Stacks attached to</th><th>Pollutants</th></tr> <tr> <td>1.</td><td>Sodium Hypo Stack; Unit 1 Caustic Soda</td><td>Cl₂</td></tr> <tr> <td>2.</td><td>HCl Stack; Unit 1 Caustic Soda</td><td>HCl</td></tr> </table>	S. No.	Description of Stacks attached to	Pollutants	1.	Sodium Hypo Stack; Unit 1 Caustic Soda	Cl ₂	2.	HCl Stack; Unit 1 Caustic Soda	HCl
S. No.	Description of Stacks attached to	Pollutants									
1.	Sodium Hypo Stack; Unit 1 Caustic Soda	Cl ₂									
2.	HCl Stack; Unit 1 Caustic Soda	HCl									

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 by M/s Grasim Industries Ltd. (Chemical Division)	Half Yearly Compliance Report (April, 2024- September, 2024)
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No.	Environmental Clearance Conditions	Reply given by PP in compliance report						
		<table border="1"> <tr> <td>3.</td><td>Sodium Hypo Stack; Unit 2 Caustic Soda</td><td>Cl₂</td></tr> <tr> <td>4.</td><td>HCl Stack; Unit 2 Caustic Soda</td><td>HCl</td></tr> </table> <p>Calibration has been successfully completed by an NABL-accredited laboratory, ensuring the accuracy and reliability of the monitoring equipment. Photographs of the online monitoring system are provided under point no. (xx) of the specific condition.</p>	3.	Sodium Hypo Stack; Unit 2 Caustic Soda	Cl ₂	4.	HCl Stack; Unit 2 Caustic Soda	HCl
3.	Sodium Hypo Stack; Unit 2 Caustic Soda	Cl ₂						
4.	HCl Stack; Unit 2 Caustic Soda	HCl						
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.	Fugitive emissions within the premises are monitored quarterly by a laboratory recognized under the Environment (Protection) Act, 1986. The monitoring results for fugitive emissions are provided in Annexure-9 .						
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 ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x 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.	Grasim Industries Limited has successfully installed Ambient Air Quality monitoring stations. The corresponding photographs are provided below. Additionally, the quarterly third-party monitoring results for Ambient Air Quality are enclosed as Annexure-4 .						
		 <p style="text-align: center;">Ambient Air Quality Monitoring Station</p>						
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.	To control source and the fugitive emissions suitable pollution control devices are being installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions are being/ will be dispersed through stack of adequate height as per CPCB/SPCB guidelines. Stack emission						

No.	Environmental Clearance Conditions	Reply given by PP in compliance report									
		monitoring results April 2024 to September 2024 has been attached as Annexure 5 .									
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.	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:									
	<table> <tr> <th>Fugitive Emissions</th><th>Plant Unit</th><th>Pollution Control/ Mitigation measures adopted</th></tr> <tr> <td>HCl, Chlorine</td><td> <ul style="list-style-type: none"> Storage & handling of raw materials, solvents, finished products From equipment's leak valves, flanges, pump seals, compressors, sampling connections, open ended lines </td><td> <ul style="list-style-type: none"> Liquid raw materials and intermediates charged into Reactors with pumps or under gravity through closed pipes. Suction Hoods placed near the Man-holes & Charging funnels of Reactors & Filters. All storage tanks of low boiling solvents / chemical with Conservation Vents. Vents of HCl storage tanks with a Water filled trap to prevent Acid fumes from escaping out. Mechanical seals to prevent fugitive emission. Storage tanks with level gauge, dyke wall, automated loading and unloading for the chemicals. Plugs, caps and blinds for open ended lines. Closed loop sampling systems. </td></tr> <tr> <td>CO₂ and other gases</td><td>Vehicles, Open surfaces, ETP, retention ponds</td><td> <ul style="list-style-type: none"> Roads within the premises concreted / paved to avoid vehicular emissions. All transportation vehicles carry a valid PUC (Pollution under Control) Certificate. Proper servicing & maintenance of vehicles. Regular sweeping of all the roads & </td></tr> </table>	Fugitive Emissions	Plant Unit	Pollution Control/ Mitigation measures adopted	HCl, Chlorine	<ul style="list-style-type: none"> Storage & handling of raw materials, solvents, finished products From equipment's leak valves, flanges, pump seals, compressors, sampling connections, open ended lines 	<ul style="list-style-type: none"> Liquid raw materials and intermediates charged into Reactors with pumps or under gravity through closed pipes. Suction Hoods placed near the Man-holes & Charging funnels of Reactors & Filters. All storage tanks of low boiling solvents / chemical with Conservation Vents. Vents of HCl storage tanks with a Water filled trap to prevent Acid fumes from escaping out. Mechanical seals to prevent fugitive emission. Storage tanks with level gauge, dyke wall, automated loading and unloading for the chemicals. Plugs, caps and blinds for open ended lines. Closed loop sampling systems. 	CO ₂ and other gases	Vehicles, Open surfaces, ETP, retention ponds	<ul style="list-style-type: none"> Roads within the premises concreted / paved to avoid vehicular emissions. All transportation vehicles carry a valid PUC (Pollution under Control) Certificate. Proper servicing & maintenance of vehicles. Regular sweeping of all the roads & 	
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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 by M/s Grasim Industries Ltd. (Chemical Division)	Half Yearly Compliance Report (April, 2024- September, 2024)
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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	Chloromethane traces, Methanol traces and HCl	<p>floors to avoid particulate matter dispersion.</p> <p>▪ All vents after guard condenser are directed to volatile reduction chamber (VRC Unit) where it is incinerated. HCl liberated is scrubbed in water and then with caustic solution</p>
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.	The National Emission Standards for the Organic Chemicals Manufacturing Industry, as issued by the Ministry vide G.S.R. 608(E) dated 21st July 2010 and as amended from time to time, will be strictly followed.
vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.	The National Ambient Air Quality Standards (NAAQS) are being fully complied with. Quarterly Ambient Air Quality (AAQ) monitoring results have been conducted and are attached as Annexure-4 .
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)	To ensure Zero Liquid Discharge (ZLD), the unit has installed web cameras with night vision capability and flow meters in the channels and drains carrying effluent within the premises. A detailed note on Zero Liquid Discharge is attached as Annexure-2 .
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).	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 Annexure-2 .
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.	The Plant is operating on Zero liquid discharge; hence no such effluent is discharged outside the plant.
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.	As of now the fresh water consumption is approx. 2596 KLD. Permission for water drawl from Chambal River given by Water resource Department, Ujjain dated 1-06-2006 is attached as Annexure 6 .
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.	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.

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 by M/s Grasim Industries Ltd. (Chemical Division)	Half Yearly Compliance Report (April, 2024- September, 2024)
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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
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.	Industry has adopted zero liquid discharge system for maximum utilization of water through reuse/ recycling. As a responsible industry, we have installed 6 no. rain water harvesting structures in staff colony and 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 Annexure 10 .
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.
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.	Hazardous waste authorization being obtained from MPPCB and waste disposed as per prescribed guidelines.
iii.	The company shall undertake waste minimization measures as below: - a. Metering and control of quantities of active ingredients to minimize waste.	The industry has taken following waste minimization measures- a) All the raw materials are fed in the system through metering system to minimize the

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 by M/s Grasim Industries Ltd. (Chemical Division)	Half Yearly Compliance Report (April, 2024- September, 2024)
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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	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.	waste. Chlorine feed is controlled and no excess chlorine is fed. b) Hydrochloric acid is being used as raw material in 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 adopted in ZLD plant to clean calendria.
VII	Greenbelt	
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. List of the Plant Species in Greenbelt is given below: <i>Acacia auriculiformis</i> , <i>Alstonia acholaris</i> (Devil's tree), <i>Anthocephalus cadamba</i> (Kadam), <i>Araucaria</i> , <i>Azadirachta indica</i> (Neem), <i>Butea frondosa</i> (Dhak), <i>Callistemon</i> sps. (Bottle Brush), <i>Cassia fistala</i> (Amaltas), <i>Cassia siamea</i> , <i>Casurina</i> , <i>Dalbergia sissoo</i> (Shisham), <i>Delonix regia</i> (Gulmohar), <i>Dillenia indica</i> (Chalta), <i>Erythrina</i> sps. (Pangra), <i>Gliricidia</i> , <i>Ficus bengalensis</i> (Bar), <i>Ficus elastica</i> , <i>Ficus benjamina</i> , <i>Ficus</i> sps., <i>Grevillea robusta</i> (Silver oale), <i>Jacaranda</i> , <i>Kigelia pinnata</i> , <i>Lagerstromia</i> sps. (Sawani), <i>Milingtonia horstensis</i> (Akash Neem), <i>Mimusops elengi</i> (Molsari), <i>Parkia</i> , <i>Peltophorum</i> , <i>Leuceana latisiliana</i> (Subabul), <i>Polyalthia pendula</i> (Ashok), <i>Plumeria</i> sps. (Champa), <i>Saraca indica</i> (Sita Ashok), <i>Putramiva</i> , <i>Santlum album</i> (Chandan), <i>Apathodia campanuleta</i> (Fountain tree), <i>Terminalia arjuna</i> (Arjun), <i>Terminalia catappa</i> , <i>Thespesia populnea</i> (Paras Pipal), <i>Pongamia glabra</i> (Karanj), <i>Bamboo</i> sps., <i>Bauhinia</i> sps., etc. Glimpse of plantation and green belt in the complex is shown at point no. (xv) of specific condition
VIII	Safety, Public hearing and Safety issues	

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	The Emergency preparedness plan and Disaster Management Plan is being/will be implemented in the Grasim Industry Limited.
ii.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Adequate arrangement for protection of possible fire hazards during manufacturing process in material handling is made in the industry. Few precautions are as follows: <ul style="list-style-type: none"> ➤ 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 (PPE) as per the norms of Factory Act.	The Personal Protection Equipment (PPE) as per the norms of Factory Act are provided to the employees by Grasim Industry Limited.
iv.	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.	Requisite training on safety and health aspects of chemical handling is being provided to all employees. Routine periodical medical examinations are also conducted regularly for all staff. The medical check-up report of workers and photographs of the camp are attached as Annexure-7 . Additionally, images of the training sessions are provided below.

No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	Training programs	
		
v.	<p>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.</p>	<p>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.</p>



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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>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.</p> <p>Medical report of one of the workers and camp is attached as Annexure 7 for reference.</p> <p>Grasim Industries Ltd. commits to create & maintain safe & healthy work environment for employees, against hazards & risks through:</p> <ul style="list-style-type: none"> ➤ Continuously developing & maintaining safe work practices. ➤ Focusing on operational & occupational hazards & risks. ➤ Creating awareness about preventive health & safety measures.
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	<p>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.</p> <p>The photographs of parking spaces are given at point no. (xxv) of specific condition.</p>
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 st 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.


No.	Environmental Clearance Conditions	Reply given by PP in compliance report
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.	An action plan for implementing the Environmental Management Plan (EMP) and 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.
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Duly Noted The Self environmental audit is conducted annually. The recent Audit is being conducted by JM EnviroNet Pvt. Ltd, in June 2024.
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.	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)

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
	<p><i>Dainik Bhaskar dt. 16/1/2020</i></p> 	<p><i>Patrika dt. 16/1/2020</i></p> 
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.	The copies of environmental clearance are being submitted to the concerned offices.
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.

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (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.	<p>The display board showing criteria pollutants level namely; PM₁₀, SO₂, NO_x 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:</p>  <p>Display board showing criteria pollutants</p>
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.	<p>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).</p> <p>Paste submission Receipt</p>
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

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No.	Environmental Clearance Conditions	Reply given by PP in compliance report
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.	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.
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).	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.	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.	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.
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





Consent Order

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

RED-LARGE

CCA-Renewal

Validity (A/W): 31.01.2025

CONSENT NO: ***

PCB ID: 25471

Outward No:118906,27/09/2023

Consent No:AW-58936

To,
The Occupier,
M/s. Grasim Industries Ltd., (Chemical Division),
Survey No.-22/1, Birlagram Nagda, Industrial Area Mehatwas,
Tal : Nagda, Dist : Ujjain (M.P.)- 456331

Subject: Grant of Renewal of Consent 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 Consent to Operate Application Receipt No. 1299811 Dt. 22/08/2023 and last communication received on Dt.19/08/2023

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 **31/01/2025**, 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 (M.P.)- 456331
Latitude : 23.4373, Longitude : 75.4118
- b. The capital investment : Rs. 964.72 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 **31/01/2025** and has to be renewed before expiry of consent. By the order of Chairman, MPRCB XGN with annual license fees in this regard shall be submitted to this office **6 months before expiry of the** consent. The right to amend/cancel / revoke the above condition in part or whole as and when required.

Signature Not Verified

Digitally Signed by : Chandra
Mohan Thakur,IAS
Date: 27/09/2023 10:11:12 AM

CHANDRA MOHAN THAKUR
Member Secretary

Digitally Signed by : Chandra
Mohan Thakur,IAS
Date: 27/09/2023 10:11:12 AM

under Water Act
* Conditions under Air Act
(Organic Authentication on Aadhar from UIDAI Server)
TPAV # 0143W64BQ8



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

pH	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 ₅ 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 notified by MP PCB 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 ₅ 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-

- Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- 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 shall 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 relieve 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, Shell 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 is 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. 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 (mtrs)	Fuel	Control equipment to be installed	(mg/NM ³)	CEMS
Caustic unit-I	5.5 m ³ /Hr	32	---	Alkali Scrubber,	Chlorine-15	Online real- time emission monitoring systems to be maintained and connected to MPPCB, ESC, Bhopal
	2 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
	2 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
Caustic Unit-II	0.5m ³ /Hr	34	---	Alkali Scrubber,	Chlorine-15	
	1 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
	1 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
Stable bleaching Powder (De-dusting unit)	2 m ³ /hr	30	---	Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl ₂ -15	
	2 m ³ /hr	30	---	Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl ₂ -15	
PAC Liquid	3.5 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
PAC Dryer-I	6 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
PAC Dryer-II	5.5 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
Chloro sulphonic Acid	1.5 m ³ /hr	30	---	H ₂ SO ₄ scrubber	SO ₃ -50	
	1.5 m ³ /hr	30	---	Water Scrubber,	HCl Mist-35, PM-50	
CPW Plant	5 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
				Alkali Scrubber	Cl ₂ -15	
Calcium Chloride Plant	5 m ³ /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 [SO₂] (24 hrs. Basis) - 80 µg/m³
- d. Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m³
- 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 and as stated in below.

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 sensors within the plant premises and the same shall be connected to the public display system.
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 fill after composting
Food Waste	0.833 MT	
Glass Waste	0.167 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
PVC Frills Cooling Tower	0.167 MT	
Paper wastes, Waste Carton, Discarded Poster, Carpet	0.833 MT	
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 Rules 2016, disposal shall be ensured
Other Sludge (Drain & Pit)	25.00 MT	
CaCl ₂	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 authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.



Consent Order

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

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 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 later 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.
- (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.
2. 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.
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.



Consent Order

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

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
M.P. Pollution Control Board**

By the order of Chairman, MPPCB

**CHANDRA MOHAN THAKUR
Member Secretary**



**(Organic Authentication on AADHAR from UIDAI Server)
TPAV # 8L4BW64BQ8**

Consent No: AH/58936
Page 50 of 186

Note on Zero liquid Discharge

Grasim has achieved Zero Liquid Discharge (ZLD) status on March 31st 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, flocculator, 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.



Grasim Industries Limited – Nagda

Note on Zero liquid Discharge

	
Lamella Clarifier with Sand & Carbon Filter	
	
Filter Press	Ultra Filtration System
	
Chemical Dosing System	CIP System for RO Cleaning

Note on Zero liquid Discharge



Double Stage RO Plant



MEE Plant



MEE Plant

Grasim Industries Limited – Nagda

Note on Zero liquid Discharge



ATFD Plant



Consent Order

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:114665.01/02/2022
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

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

Digitally signed by ACHYUT ANAND MISHRA
DN: cn=ACHYUT ANAND MISHRA, o=M.P. Pollution Control Board, ou=MP, email=achyut.mishra@mppcb.org

(Original Authentication Hash and DPV from UIDAI Server)
TPAV #NNYWGYPQ1C

ACHYUT ANAND MISHRA
Member Secretary



Consent Order

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

CONDITIONS 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-

pH	Between	5.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD ₅ 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 ₅ 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 (Qty in klpd - Kilo Ltr per Day)	WC : 3293.000	WWG : 493.000	Water Source
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-

- Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- 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

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

- 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 through 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 height (mtrs)	Fuel	Control equipment to be installed	(mg/NM ³)	CEMS
Caustic unit-I	5.5 m ³ /Hr	32	---	Alkali Scrubber,	Chlorine-15	Online real-time emission monitoring systems to be installed and connected to MPPCB, ESC, Bhopal on or before application for CTO
	2 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
	2 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
Caustic Unit-II	0.5m ³ /Hr	34	---	Alkali Scrubber,	Chlorine-15	
	1 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
	1 m ³ /Hr	34	---	Water Scrubber,	HCl mist-35	
Stable bleaching Powder (De-dusting unit)	2 m ³ /hr	30	---	Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl ₂ -15	
	2 m ³ /hr	30	---	Bag Filter, Cyclone ,Dust Collector, Gravity Settling Chamber, Hood Cover,	PM-50, Cl ₂ -15	
PAC Liquid	3.5 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
PAC Dryer-I	6 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
PAC Dryer-II	5.5 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
Chloro sulphonic Acid	1.5 m ³ /hr	30	---	H ₂ SO ₄ scrubber	SO ₃ -50	
	1.5 m ³ /hr	30	---	Water Scrubber,	HCl Mist-35,PM-50	
CPW Plant	5 m ³ /hr	34	---	Water Scrubber	HCl Mist-35	
				Alkali Scrubber	Cl ₂ -15	
Calcium Chloride Plant	5 m ³ /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:

- Particulate Matter (less than 10 micron) - 100 µg/m³ (PM10 µg/m³ 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m³ (PM2.5 µg/m³ 24 hrs. basis)
- Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 µg/m³
- Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m³
- 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. 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



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 etc.

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:-

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 sensors within the plant premises and the same shall be connected to the public display system .
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.

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

Serial No.	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	2.000-M.T
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 hazardous chemicals /wastes(33.1)	CTSDf, Coprocessing, Pre-processing, authorized recyclers	25.000-M.T
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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19.	Chemical Waste (Solid)(Z33)	Captive Land fill upto December, 2022 CTSDF	200.000-M.T
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- (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.



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 annually.
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/email-it_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.



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	The materials to be sold to the authorized and consented actual users and the intimation of each dispatch shall be given to the Board
PVC Frills Cooling Tower	0.167 MT	
Paper wastes, Waste Carton, Discarded Poster, Carpet	0.833 MT	
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 Rules 2016, disposal shall be ensured
Other Sludge (Drain & Pit)	25.00 MT	
CaCl ₂	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:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- 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.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- 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



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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 :

- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- 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:-

- 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.
- The industry shall obtain the public liability insurance under Public Liability Act 1991 and shall maintain valid copy of the same.
- The industry shall 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 1986 .
- 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 not.
- 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.
- Based on hazard identification and risk analysis, risk mitigation measures, industry shall ensure all possible efforts with co-ordinations local bodies to reduce risk and enhance safety at the plant and its surroundings.
- The industry shall maintain the material balance for each product and submit the same to the Board annually.
- Information of each Mock drill shall be given to local body, local administration & MPPCB RO, Ujjain atleast 07 days in advance.
- The fire safety arrangements shall be maintained properly and tested during each mock drill.
- 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.**
- 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.**
- 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 consent and authorizations granted to other units shall be stand cancelled after issuance 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 shall not be allowed to discharge of effluent and gaseous emission.



(Organic Authentication on AADHAR from UIDAI Server)
TPAV # NNYWCYPQ1C

M.P. Pollution Control Board
ACHYUT ANAND MISHRA
Member Secretary

Consent No. AWH 55153



Consent Order

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

RED-SMALL	CCA-Fresh	Validity(A/W) : 30/11/2028 Validity(H) : 31/12/2028	CONSENT NO: ***	PCB ID: 150195
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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 :-

- Location:** Survey No 401/1/1,402, Birlagram, Nagda, Tal : Nagda, SIDC : I/A Mehatwas Nagda, Dist : Ujjain (M.P.)- 456331
- The capital investment:** Rs. 7.77 Crs
- Product & Production Capacity:**

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

Note:-

- For any change in above industry shall obtain fresh consent from the board.
- The facility operator shall follow CPCB guidelines for secured land fill site operation.
- Guidelines issued by CPCB for Storage of hazardous wastes shall be strictly followed.
- 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



Signature Not Verified
Digitally Signed by : Chandra
Mohan Thakur,IAS
Date: 13/01/2024 05:19:17 PM

CHANDRA MOHAN THAKUR
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # O8SD8HEJ9E



Consent Order

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

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-

pH	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 ₃ 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-

- Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- 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.
- The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.



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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 shall 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 is 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.



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
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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 $\mu\text{g}/\text{m}^3$ (PM10 $\mu\text{g}/\text{m}^3$ 24 hrs. basis)
 - b. Particulate Matter (less than 2.5 micron) - 60 $\mu\text{g}/\text{m}^3$ (PM2.5 $\mu\text{g}/\text{m}^3$ 24 hrs. basis)
 - c. Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 $\mu\text{g}/\text{m}^3$
 - d. Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 $\mu\text{g}/\text{m}^3$
 - e. Carbon Monoxide [CO] (8 hrs. Basis) - 2000 $\mu\text{g}/\text{m}^3$
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.



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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 Slf 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 at 401/1/1,402, 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

Consent No. **AVKH-59528**

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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 annually.
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.



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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 maintained	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.



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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.



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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, MP PCB

CHANDRA MOHAN THAKUR
Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)
TPAV # O8SD8HEJ9E

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30 years of success

J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/05**
 Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240506064**
 Format No.: **7.5 F-02**
 Party Ref. No.: **Nil**
 Reporting Date: **08/05/2024**
 Analysis Completion Date: **08/05/2024**
 Analysis Start Date: **06/05/2024**
 Receipt Date: **06/05/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Membrane Caustic Soda Plant- 2 (Near HCL Plant)**
 Latitude : **23° 26' 25.1" N**
 Longitude : **75° 24' 33.7" E**
 Instrument Used : **RDS & FPS**
 Instrument Code : **JME/RDS/01/36 & JME/FPS/01/51**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **29/04/2024 to 29/04/2024**
 Time of Monitoring : **08:40 to 16:40 Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 39°C, Min 26°C**
 Surrounding Activity : **Plant Operation & Vehicular Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	38.2	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	79.6	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	30.4	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	14.5	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.81	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

- Note:
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J.M. ENVIROLAB PVT. LTD.

CIN No.:U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/06

Name & Address of Unit: M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: JME/A/240506065

Format No.: 7.5 F-02

Party Ref. No.: Nil

Reporting Date: 08/05/2024

Analysis Completion Date: 08/05/2024

Analysis Start Date: 06/05/2024

Receipt Date: 06/05/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation)

Sample Collected by

Sampling Location

Latitude

Longitude

Instrument Used

Instrument Code

Instrument Calibration Status

Meteorological Condition During Monitoring

Date of Monitoring

Time of Monitoring

Actual duration of Monitoring. (minutes)

Ambient Temperature (°C)

Surrounding Activity

Control Measure if Any

Sampling & Analysis Protocol

Parameter Required

Mr. Vijay Ajmera (Manager- EHS)

JMELPL Team

Membrane Caustic Soda Plant- 1

23° 26' 15.9" N

75° 24' 34.4" E

RDS& FPS

JME/RDS/01/36 & JME/FPS/01/51

Calibrated

Clear Sky

30/04/2024 to 30/04/2024

09:15 to 17:15 Hrs.

480.0

Max 39°C, Min 26°C

Plant Operation & Vehicular activities

--

IS-5182 & CPCB Guidelines

As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	38.1	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	83.2	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	27.8	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	14.5	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.73	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards, Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11 2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Tested by

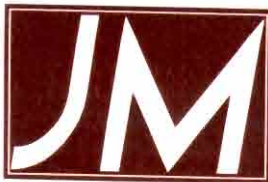
Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number:	JME/GILCD/A/07	Report No.:	JME/A/240506066
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda- 456331 Madhya Pradesh	Format No.:	7.5 F-02
		Party Ref. No.	Nil
		Reporting Date:	08/05/2024
		Analysis Completion Date:	08/05/2024
		Analysis Start Date:	06/05/2024
Sample Description:	AMBIENT AIR QUALITY MONITORING	Receipt Date:	06/05/2024

General Information

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Sampling Location	: Chlorinated Paraffin (CP Plant) Near Control Room
Latitude	: 23° 26' 15.0" N
Longitude	: 75° 24' 47.7" E
Instrument Used	: RDS& FPS
Instrument Code	: JME/RDS/01/36 & JME/FPS/01/51
Instrument Calibration Status	: Calibrated
Meteorological Condition During Monitoring	: Clear Sky
Date of Monitoring	: 01/05/2024 to 01/05/2024
Time of Monitoring	: 08:50 to 16:50 Hrs.
Actual duration of Monitoring, (minutes)	: 480.0
Ambient Temperature (°C)	: Max 38°C, Min 24°C
Surrounding Activity	: Plant Operation & Vehicular Activities
Control Measure if Any	: --
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	40.2	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	79.9	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	28.4	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	15.5	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.78	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number:

Name & Address of Unit

Sample Description:

JME/GILCD/A/08

M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

AMBIENT AIR QUALITY MONITORING

Report No.:

Format No.:

Party Ref. No.

Reporting Date:

Analysis Completion Date:

Analysis Start Date:

Receipt Date:

JME/A/240506067

7.5 F-02

Nil

08/05/2024

08/05/2024

06/05/2024

06/05/2024

General Information

Client Representative (Name & Designation)

Sample Collected by

Sampling Location

Latitude

Longitude

Instrument Used

Instrument Code

Instrument Calibration Status

Meteorological Condition During Monitoring

Date of Monitoring

Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding Activity

Control Measure if Any

Sampling & Analysis Protocol

Parameter Required

Mr. Vijay Ajmera (Manager- EHS)

JMELPL Team

Calcium Chloride Plant (Near Control Room)

23° 26' 14.3" N

75° 24' 42.8" E

RDS& FPS

JME/RDS/01/36 & JME/FPS/01/51

Calibrated

Clear Sky

02/05/2024 to 02/05/2024

09:30 to 17:30 Hrs.

480.0

Max 37°C, Min 22°C

Plant Operation & Vehicular Activities

--

IS-5182 & CPCB Guidelines

As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	37.2	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	80.4	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	26.6	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	15.7	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.65	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII.[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009
**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number: JME/GILCD/A/09
Name & Address of Unit: M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh
Report No.: JME/A/240506068
Format No.: 7.5 F-02
Party Ref. No.: Nil
Reporting Date: 08/05/2024
Analysis Completion Date: 08/05/2024
Analysis Start Date: 06/05/2024
Receipt Date: 06/05/2024
Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Sampling Location : Stable Bleaching Powder (SBP Plant)
Latitude : 23° 26' 14.8" N
Longitude : 75° 24' 38.2" E
Instrument Used : RDS& FPS
Instrument Code : JME/RDS/01/36 & JME/FPS/01/51
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 03/05/2024 to 03/05/2024
Time of Monitoring : 08:30 to 16:30 Hrs.
Actual duration of Monitoring, (minutes) : 480.0
Ambient Temperature (°C) : Max 39°C, Min 24°C
Surrounding Activity : Plant Operation & Loading, Unloading Activities
Control Measure if Any : --
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	38.5	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	75.2	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	27.4	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	14.1	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.70	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009
**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Smt. Ram Yadav
Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/10** Report No.: **JME/A/240506069**
 Name & Address of Unit: **M/s. Grasim Industries Limited** Format No.: **7.5 F-02**
Chemical Division Party Ref. No.: **Nil**
Birlagram, Nagda- 456331 Reporting Date: **08/05/2024**
Madhya Pradesh Analysis Completion Date: **08/05/2024**
 Analysis Start Date: **06/05/2024**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **06/05/2024**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Poly Aluminums Chloride (PAC Plant)**
 Latitude : **23° 26' 18.7" N**
 Longitude : **75° 24' 31.4" E**
 Instrument Used : **RDS& FPS**
 Instrument Code : **JME/RDS/01/36 & JME/FPS/01/51**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **04/05/2024 to 04/05/2024**
 Time of Monitoring : **08:45 to 16:45 Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 40°C, Min 25°C**
 Surrounding Activity : **Plant Operation & Loading Unloading Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	40.0	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	77.5	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	24.1	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	15.3	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.85	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/01
Name & Address of Unit: M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh
Report No.: JME/A/240430060
Format No.: 7.5 F-02
Party Ref. No: Nil
Reporting Date: 02/05/2024
Analysis Completion Date: 02/05/2024
Analysis Start Date: 30/04/2024
Receipt Date: 30/04/2024
Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JME/LPL Team
Sampling Location : Gyan Kutir
Latitude : 23°26' 28.8" N
Longitude : 75°24' 30.7" E
Instrument Used : RDS, FPS & BS
Instrument Code : JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 23/04/2024 to 24/04/2024
Time of Monitoring : 09:20 to 09:20 Hrs.
Actual Duration of Monitoring, (minutes) : 1418.0
Ambient Temperature (°C) : Max 38°C, Min 26°C
Surrounding Activity : Plant Operation, Vehicular & Human Activities
Control Measure if Any : --
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM _{2.5}	IS:5182, (Part-24)	40.7	µg/m ³	60
2.	PM ₁₀	IS:5182, (Part-23)	80.5	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	26.4	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	13.8	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	28.7	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

Page No. 1 of 2

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number: JME/GN/A/01

Report No.: JME/A/240430060

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.87	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	27.4	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2 mg/m³

End of Report



Page No. 2 of 2

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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Corporate Office

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/01
Name & Address of Unit: M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh
Report No.: JME/A/240430060/N
Format No.: 7.5 F-02
Party Ref. No.: Nil
Reporting Date: 02/05/2024
Analysis Completion Date: 02/05/2024
Analysis Start Date: 30/04/2024
Receipt Date: 30/04/2024
Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Sampling Location : Gyan Kutir
Latitude : 23°26' 28.8" N
Longitude : 75°24' 30.7" E
Instrument Used : RDS, FPS & BS
Instrument Code : JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 23/04/2024 to 24/04/2024
Time of Monitoring : 09:20 to 09:20 Hrs.
Actual Duration of Monitoring, (minutes) : 1418.0
Ambient Temperature (°C) : Max 38°C, Min 26°C
Surrounding Activity : Plant Operation, Vehicular & Human Activities
Control Measure if Any : --
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	IS: 5182, (Part-11)	23.5	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/02 Report No.: JME/A/240430061
 Name & Address of Unit: M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh
 Format No.: 7.5 F-02
 Party Ref. No.: Nil
 Reporting Date: 02/05/2024
 Analysis Completion Date: 02/05/2024
 Analysis Start Date: 30/04/2024
 Receipt Date: 30/04/2024
 Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
 Sample Collected by : JMELPL Team
 Sampling Location : Membrane Caustic Soda Plant-2
 Latitude : 23° 26' 16.4" N
 Longitude : 75° 24' 32.2" E
 Instrument Used : RDS, FPS & BS
 Instrument Code : JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
 Instrument Calibration Status : Calibrated
 Meteorological Condition During Monitoring : Clear Sky
 Date of Monitoring : 24/04/2024 to 25/04/2024
 Time of Monitoring : 09:15 to 09:15 Hrs.
 Actual Duration of Monitoring, (minutes) : 1424.0
 Ambient Temperature (°C) : Max 38°C, Min 24°C
 Surrounding Activity : Plant Operation, Vehicular & Human Activities
 Control Measure if Any : --
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM _{2.5}	IS:5182, (Part-24)	35.5	µg/m ³	60
2.	PM ₁₀	IS:5182, (Part-23)	85.0	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	26.4	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	14.6	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	29.2	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

Page No. 1 of 2

Deepak Singh

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Abhishek Tiwari

Checked by

Sita Ram Yadav

Authorized Signatory

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TEST REPORT

Sample Number: JME/GILCD/A/02

Report No.: JME/A/240430061

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.83	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	23.10	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2 mg/m³

End of Report

Page No. 2 of 2

Deepak Singh
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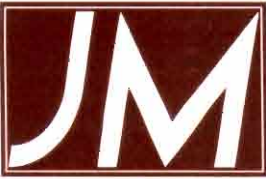
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Checked by

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Golf Course Ext. Road, Sector-61,
Gurugram-122011(Haryana)



TEST REPORT

Sample Number: JME/GILCD/A/02 Report No.: JME/A/240430061/N
Name & Address of Unit: M/s. Grasim Industries Limited Format No.: 7.5 F-02
Chemical Division Party Ref. No.: Nil
Birlagram, Nagda- 456331 Reporting Date: 02/05/2024
Madhya Pradesh Analysis Completion Date: 02/05/2024
Analysis Start Date: 30/04/2024
Receipt Date: 30/04/2024
Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Sampling Location : Membrane Caustic Soda Plant-2
Latitude : 23° 26' 16.4" N
Longitude : 75° 24' 32.2" E
Instrument Used : RDS, FPS & BS
Instrument Code : JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 24/04/2024 to 25/04/2024
Time of Monitoring : 09:15 to 09:15 Hrs.
Actual Duration of Monitoring, (minutes) : 1424.0
Ambient Temperature (°C) : Max 38°C, Min 24°C
Surrounding Activity : Plant Operation, Vehicular & Human Activities
Control Measure if Any : --
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	IS: 5182, (Part-11)	22.8	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

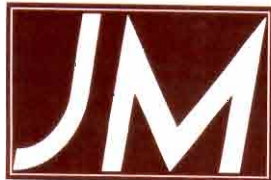
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Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/03
Name & Address of Unit: M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: JME/A/240430062
Format No.: 7.5 F-02
Party Ref. No.: Nil
Reporting Date: 02/05/2024
Analysis Completion Date: 02/05/2024
Analysis Start Date: 30/04/2024
Receipt Date: 30/04/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JME/LPL Team
Sampling Location : Bora Godown Area
Latitude : 23° 26' 26.4" N
Longitude : 75° 24' 37.6" E
Instrument Used : RDS, FPS & BS
Instrument Code : JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 26/04/2024 to 27/04/2024
Time of Monitoring : 09:10 to 09:10 Hrs.
Actual Duration of Monitoring, (minutes) : 1417.0
Ambient Temperature (°C) : Max 33°C, Min 26°C
Surrounding Activity : Near GIL Railway line, Vehicular & Human Activities
Control Measure if Any : --
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM _{2.5}	IS:5182, (Part-24)	42.2	µg/m ³	60
2.	PM ₁₀	IS:5182, (Part-23)	88.1	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	30.5	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	14.9	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	31.8	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

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Deepak Singh

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CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/03

Report No.: JME/A/240430062

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.83	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	23.31	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11 2009

**CO limit as per CTO is 2 mg/m³

End of Report

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TEST REPORT

Sample Number:	JME/GILCD/A/03	Report No.:	JME/A/240430062/N
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda- 456331 Madhya Pradesh	Format No.:	7.5 F-02
		Party Ref. No	Nil
		Reporting Date:	02/05/2024
		Analysis Completion Date:	02/05/2024
		Analysis Start Date:	30/04/2024
		Receipt Date:	30/04/2024
Sample Description:	AMBIENT AIR QUALITY MONITORING		

General Information

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Sampling Location	: Bora Godown Area
Latitude	: 23° 26' 26.4" N
Longitude	: 75° 24' 37.6" E
Instrument Used	: RDS, FPS & BS
Instrument Code	: JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status	: Calibrated
Meteorological Condition During Monitoring	: Clear Sky
Date of Monitoring	: 26/04/2024 to 27/04/2024
Time of Monitoring	: 09:10 to 09:10 Hrs.
Actual Duration of Monitoring, (minutes)	: 1417.0
Ambient Temperature (°C)	: Max 33°C, Min 26°C
Surrounding Activity	: Near GIL Railway line, Vehicular & Human Activities
Control Measure if Any	: --
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	IS: 5182, (Part-11)	21.5	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

Deepak Singh
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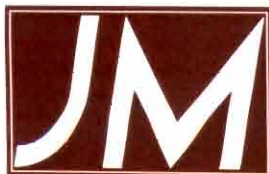
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CIN No.: U74220HR2011PTC085756

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TEST REPORT

Sample Number:	JME/GILCD/A/04	Report No.:	JME/A/240430063
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda- 456331 Madhya Pradesh	Format No.:	7.5 F-02
		Party Ref. No.	Nil
		Reporting Date:	02/05/2024
		Analysis Completion Date:	02/05/2024
		Analysis Start Date:	30/04/2024
Sample Description:	AMBIENT AIR QUALITY MONITORING	Receipt Date:	30/04/2024

General Information

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Sampling Location	: Pardi Gate
Latitude	: 23° 26' 18.4" N
Longitude	: 75° 24' 53.6" E
Instrument Used	: RDS, FPS & BS
Instrument Code	: JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status	: Calibrated
Meteorological Condition During Monitoring	: Clear Sky
Date of Monitoring	: 27/04/2024 to 28/04/2024
Time of Monitoring	: 09:10 to 09:10 Hrs.
Actual Duration of Monitoring, (minutes)	: 1435.0
Ambient Temperature (°C)	: Max 37°C, Min 26°C
Surrounding Activity	: Heavy Vehicular & Human Activities
Control Measure if Any	: --
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM _{2.5}	IS:5182, (Part-24)	39.8	µg/m ³	60
2.	PM ₁₀	IS:5182, (Part-23)	86.7	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	25.9	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	14.5	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	31.2	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

Page No. 1 of 2

Deepak Singh
Deepak Singh

Tested by

Abhishek Tiwari
Abhishek Tiwari

Checked by

Sita Ram Yadav
Sita Ram Yadav

Authorized Signatory

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J.M. ENVIROLAB Pvt. Ltd.

CIN No.: U74220HR2011PTC085758

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/04

Report No.: JME/A/240430063

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.84	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	18.52	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--

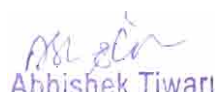
Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2 mg/m³

End of Report

Page No. 2 of 2


Deepak Singh
Tested by


Abhishek Tiwari
Checked by


Sita Ram Yadav
Authorized Signatory

Note:

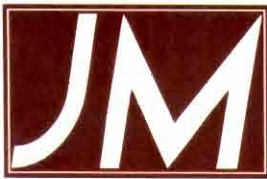
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30 years of success

J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/04
Name & Address of Unit: M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh
Report No.: JME/A/240430063/N
Format No.: 7.5 F-02
Party Ref. No.: Nil
Reporting Date: 02/05/2024
Analysis Completion Date: 02/05/2024
Analysis Start Date: 30/04/2024
Receipt Date: 30/04/2024
Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Sampling Location : Pardi Gate
Latitude : 23° 26' 18.4" N
Longitude : 75° 24' 53.6" E
Instrument Used : RDS, FPS & BS
Instrument Code : JME/RDS/01/36, JME/FPS/01/50 & JME/BS/01/02
Instrument Calibration Status : Calibrated
Meteorological Condition During Monitoring : Clear Sky
Date of Monitoring : 27/04/2024 to 28/04/2024
Time of Monitoring : 09:10 to 09:10 Hrs.
Actual Duration of Monitoring, (minutes) : 1435.0
Ambient Temperature (°C) : Max 37°C, Min 26°C
Surrounding Activity : Heavy Vehicular & Human Activities
Control Measure if Any : --
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	IS: 5182, (Part-11)	23.5	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/11**
 Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240506070**
 Format No.: **7.5 F-02**
 Party Ref. No.: **Nil**
 Reporting Date: **08/05/2024**
 Analysis Completion Date: **08/05/2024**
 Analysis Start Date: **06/05/2024**
 Receipt Date: **06/05/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Chloro Sulphonic Acid Plant**
 Latitude : **23° 26' 31.5" N**
 Longitude : **75° 24' 34.6" E**
 Instrument Used : **RDS& FPS**
 Instrument Code : **JME/RDS/01/36 & JME/FPS/01/51**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **27/04/2024 to 27/04/2024**
 Time of Monitoring : **09:25 to 09:25Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 38°C, Min 25°C**
 Surrounding Activity : **Plant Operation & Vehicular Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS:5182, (P-24)	34.1	µg/m ³	60
2.	PM10	IS:5182, (P-23)	76.5	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (P-6)	25.1	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (P-2)	12.7	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (P-10)	0.79	mg/m ³	**
6.	Chlorine	IS:5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JME/STOP/03 (Issue Date- 04.12.2020)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

Deepak Singh
Tested by

End of Report

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/11**
 Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240801077**
 Format No.: **7.5 F-02**
 Party Ref. No.: **Nil**
 Reporting Date: **05/08/2024**
 Analysis Completion Date: **05/08/2024**
 Analysis Start Date: **01/08/2024**
 Receipt Date: **01/08/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Chloro Sulphonic Acid Plant**
 Latitude : **23° 26' 31.5" N**
 Longitude : **75° 24' 34.6" E**
 Instrument Used : **RDS& FPS**
 Instrument Code : **JME/RDS/01/36 & JME/FPS/01/51**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **26/07/2024 to 26/07/2024**
 Time of Monitoring : **09:25 to 09:25Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 32°C, Min 28°C**
 Surrounding Activity : **Plant Operation & Vehicular Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS:5182, (P-24)	32.8	µg/m ³	60
2.	PM10	IS:5182, (P-23)	73.6	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (P-6)	24.3	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (P-2)	11.6	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (P-10)	0.77	mg/m ³	**
6.	Chlorine	IS:5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JME/STOP/03 (Issue Date- 04.12.2020)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009.

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deep Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number: JME/GILCD/A/05 Report No.: JME/A/240801071
 Name & Address of Unit: M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh
 Format No.: 7.5 F-02
 Party Ref. No.: Nil
 Reporting Date: 05/08/2024
 Analysis Completion Date: 05/08/2024
 Analysis Start Date: 01/08/2024
 Receipt Date: 01/08/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
 Sample Collected by : JMELPL Team
 Sampling Location : Membrane Caustic Soda Plant- 2 (Near HCL Plant)
 Latitude : 23° 26' 25.1" N
 Longitude : 75° 24' 33.7" E
 Instrument Used : RDS & FPS
 Instrument Code : JME/RDS/01/36 & JME/FPS/01/51
 Instrument Calibration Status : Calibrated
 Meteorological Condition During Monitoring : Clear Sky
 Date of Monitoring : 27/07/2024 to 27/07/2024
 Time of Monitoring : 08:50 to 16:50 Hrs.
 Actual duration of Monitoring, (minutes) : 480.0
 Ambient Temperature (°C) : Max 32°C, Min 30°C
 Surrounding Activity : Human & Vehicular Activities
 Control Measure if Any : --
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	30.6	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	63.1	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	24.2	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	11.5	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.64	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(ii)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deen Singh
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Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

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TEST REPORT

Sample Number: JME/GILCD/A/06 Report No.: JME/A/240801072
 Name & Address of Unit: M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh
 Format No.: 7.5 F-02
 Party Ref. No.: Nil
 Reporting Date: 05/08/2024
 Analysis Completion Date: 05/08/2024
 Analysis Start Date: 01/08/2024
 Receipt Date: 01/08/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
 Sample Collected by : JMELPL Team
 Sampling Location : Membrane Caustic Soda Plant- 1
 Latitude : 23° 26' 15.9" N
 Longitude : 75° 24' 34.4" E
 Instrument Used : RDS& FPS
 Instrument Code : JME/RDS/01/36 & JME/FPS/01/51
 Instrument Calibration Status : Calibrated
 Meteorological Condition During Monitoring : Clear Sky
 Date of Monitoring : 29/07/2024 to 29/07/2024
 Time of Monitoring : 09:15 to 17:15 Hrs.
 Actual duration of Monitoring, (minutes) : 480.0
 Ambient Temperature (°C) : Max 32°C, Min 27°C
 Surrounding Activity : Human & Vehicular activities
 Control Measure if Any : --
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	31.8	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	56.4	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	23.3	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	12.0	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.61	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deenak Singh
 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/07**
 Name & Address of Unit: **M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh**

Report No.: **JME/A/240801073**
 Format No.: **7.5 F-02**
 Party Ref. No.: **Nil**
 Reporting Date: **05/08/2024**
 Analysis Completion Date: **05/08/2024**
 Analysis Start Date: **01/08/2024**
 Receipt Date: **01/08/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Chlorinated Paraffin (CP Plant) Near Control Room**
 Latitude : **23° 26' 15.0" N**
 Longitude : **75° 24' 47.7" E**
 Instrument Used : **RDS& FPS**
 Instrument Code : **JME/RDS/01/36 & JME/FPS/01/51**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **30/07/2024 to 30/07/2024**
 Time of Monitoring : **08:50 to 16:50 Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 31°C, Min 28°C**
 Surrounding Activity : **Plant Operation & Vehicular Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	37.8	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	75.2	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	26.7	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	14.6	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.73	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deekhai Singh
 Tested by

Abhishek Thwart
 Checked by

Sita Ram Yadav
 Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/08**
 Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240801074**
 Format No.: **7.5 F-02**
 Party Ref. No.: **Nil**
 Reporting Date: **05/08/2024**
 Analysis Completion Date: **05/08/2024**
 Analysis Start Date: **01/08/2024**
 Receipt Date: **01/08/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Calcium Chloride Plant (Near Control Room)**
 Latitude : **23° 26' 14.3" N**
 Longitude : **75° 24' 42.8" E**
 Instrument Used : **RDS& FPS**
 Instrument Code : **JME/RDS/01/54 & JME/FPS/01/41**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **30/07/2024 to 30/07/2024**
 Time of Monitoring : **09:30 to 17:30 Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 31°C, Min 28°C**
 Surrounding Activity : **Plant Operation & Vehicular Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	31.3	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	62.7	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	25.0	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	14.8	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.61	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deen Singh
 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/09
 Name & Address of Unit: M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh

Report No.: JME/A/240801075
 Format No.: 7.5 F-02
 Party Ref. No.: Nil
 Reporting Date: 05/08/2024
 Analysis Completion Date: 05/08/2024
 Analysis Start Date: 01/08/2024
 Receipt Date: 01/08/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
 Sample Collected by : JME/LPL Team
 Sampling Location : Stable Bleaching Powder (SBP Plant)
 Latitude : 23° 26' 14.8" N
 Longitude : 75° 24' 38.2" E
 Instrument Used : RDS& FPS
 Instrument Code : JME/RDS/01/54 & JME/FPS/01/41
 Instrument Calibration Status : Calibrated
 Meteorological Condition During Monitoring : Clear Sky
 Date of Monitoring : 29/07/2024 to 29/07/2024
 Time of Monitoring : 08:30 to 16:30 Hrs.
 Actual duration of Monitoring, (minutes) : 480.0
 Ambient Temperature (°C) : Max 32°C, Min 28°C
 Surrounding Activity : Plant Operation & Loading, Unloading Activities
 Control Measure if Any : --
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	36.2	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	70.8	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	25.8	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	11.3	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.66	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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CIN No. :U74220HR2011PTC085756

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TEST REPORT

Sample Number: **JME/GILCD/A/10**
 Name & Address of Unit: **M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh**

Report No.: **JME/A/240801076**
 Format No.: **7.5 F-02**
 Party Ref. No.: **Nil**
 Reporting Date: **05/08/2024**
 Analysis Completion Date: **05/08/2024**
 Analysis Start Date: **01/08/2024**
 Receipt Date: **01/08/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Poly Aluminums Chloride (PAC Plant)**
 Latitude : **23° 26' 18.7" N**
 Longitude : **75° 24' 31.4" E**
 Instrument Used : **RDS& FPS**
 Instrument Code : **JME/RDS/01/54 & JME/FPS/01/41**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **27/07/2024 to 27/07/2024**
 Time of Monitoring : **08:45 to 16:45 Hrs.**
 Actual duration of Monitoring, (minutes) : **480.0**
 Ambient Temperature (°C) : **Max 32°C, Min 29°C**
 Surrounding Activity : **Plant Operation & Loading Unloading Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS: 5182, (Part-24)	30.5	µg/m ³	60
2.	PM10	IS: 5182, (Part-23)	64.8	µg/m ³	100
3.	Nitrogen Dioxide	IS: 5182, (Part-6)	24.1	µg/m ³	80
4.	Sulphur Dioxide	IS: 5182, (Part-2)	15.3	µg/m ³	80
5.	Carbon Monoxide	IS: 5182, (Part-10)	0.68	mg/m ³	**
6.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--
7.	Hydrochloric Acid	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2.0 mg/m³

End of Report

Deepak Singh
Deepak Singh
 Tested by

Abhishek Tiwari
Abhishek Tiwari
 Checked by

Sita Ram Yadav
Sita Ram Yadav
 Authorized Signatory

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GIN No.:U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/01**
Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240729031**
Format No.: **7.5 F-02**
Party Ref. No: **Nil**
Reporting Date: **02/08/2024**
Analysis Completion Date: **02/08/2024**
Analysis Start Date: **29/07/2024**
Receipt Date: **29/07/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Sampling Location : **Gyan Kutir**
Latitude : **23°26' 28.8" N**
Longitude : **75°24' 30.7" E**
Instrument Used : **RDS, FPS & BS**
Instrument Code : **JME/RDS/01/36, JME/FPS/01/55 & JME/BS/01/02**
Instrument Calibration Status : **Calibrated**
Meteorological Condition During Monitoring : **Clear Sky**
Date of Monitoring : **22/07/2024 to 23/07/2024**
Time of Monitoring : **08:30 to 08:30 Hrs.**
Actual Duration of Monitoring, (minutes) : **1426.0**
Ambient Temperature (°C) : **Max 33°C, Min 26°C**
Surrounding Activity : **Plant Operation, Vehicular & Human Activities**
Control Measure if Any : **--**
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS:5182, (Part-24)	32.3	µg/m ³	60
2.	PM10	IS:5182, (Part-23)	64.8	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	24.9	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	13.0	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	22.3	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

Page No. 1 of 2

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number: JME/GN/A/01

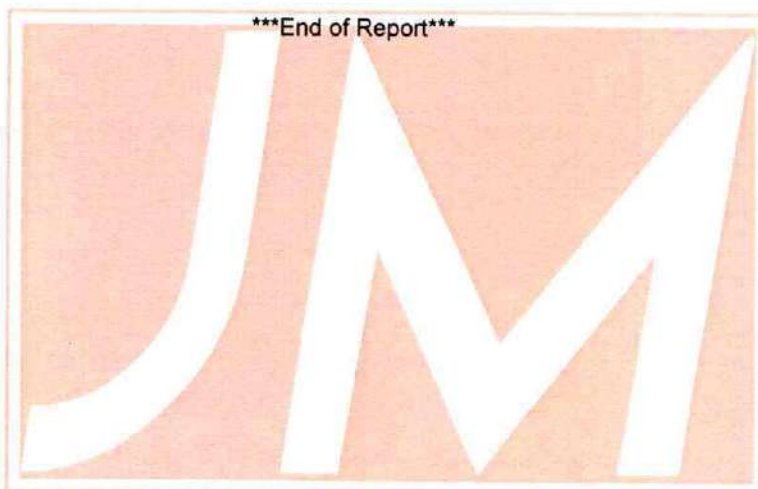
Report No.: JME/A/240729031

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.71	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	24.5	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO Limit as per CTO is 2 mg/m³

End of Report



Page No. 2 of 2

[Signature]
Tested by

[Signature]
Checked by

[Signature]
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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/01** Report No.: **JME/A/240729031/N**
 Name & Address of Unit: **M/s. Grasim Industries Limited** Format No.: **7.5 F-02**
Chemical Division Party Ref. No.: **Nil**
Birlagram, Nagda- 456331 Reporting Date: **02/08/2024**
Madhya Pradesh Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **29/07/2024**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **29/07/2024**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Gyan Kutir**
 Latitude : **23°26' 28.8" N**
 Longitude : **75°24' 30.7" E**
 Instrument Used : **RDS & BS**
 Instrument Code : **JME/RDS/01/36, JME/BS/01/02**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **22/07/2024 to 23/07/2024**
 Time of Monitoring : **08:30 to 08:30 Hrs.**
 Actual Duration of Monitoring, (minutes) : **1426.0**
 Ambient Temperature (°C) : **Max 33°C, Min 26°C**
 Surrounding Activity : **Plant Operation, Vehicular & Human Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	27.9	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

Deepak Singh
Deepak Singh
 Tested by

Abhishek Tiwari
Abhishek Tiwari
 Checked by

Sita Ram Yadav
Sita Ram Yadav
 Authorized Signatory

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CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/02** Report No.: **JME/A/240729032**
 Name & Address of Unit: **M/s. Grasim Industries Limited** Format No.: **7.5 F-02**
Chemical Division Party Ref. No.: **Nil**
Birlagram, Nagda- 456331 Reporting Date: **02/08/2024**
Madhya Pradesh Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **29/07/2024**
 Receipt Date: **29/07/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Sampling Location : **Membrane Caustic Soda Plant-2**
 Latitude : **23° 26' 16.4" N**
 Longitude : **75° 24' 32.2" E**
 Instrument Used : **RDS, FPS & BS**
 Instrument Code : **JME/RDS/01/36, JME/FPS/01/55 & JME/BS/01/02**
 Instrument Calibration Status : **Calibrated**
 Meteorological Condition During Monitoring : **Clear Sky**
 Date of Monitoring : **23/07/2024 to 24/07/2024**
 Time of Monitoring : **09:20 to 09:20 Hrs.**
 Actual Duration of Monitoring, (minutes) : **1430.0**
 Ambient Temperature (°C) : **Max 33°C, Min 27°C**
 Surrounding Activity : **Plant Operation, Vehicular & Human Activities**
 Control Measure if Any : **--**
 Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS:5182, (Part-24)	33.4	µg/m ³	60
2.	PM10	IS:5182, (Part-23)	65.9	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	22.4	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	11.8	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	21.9	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

Page No. 1 of 2


Deepak Singh
 Tested by


Abhishek Tiwari
 Checked by


Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: JME/GILCD/A/02

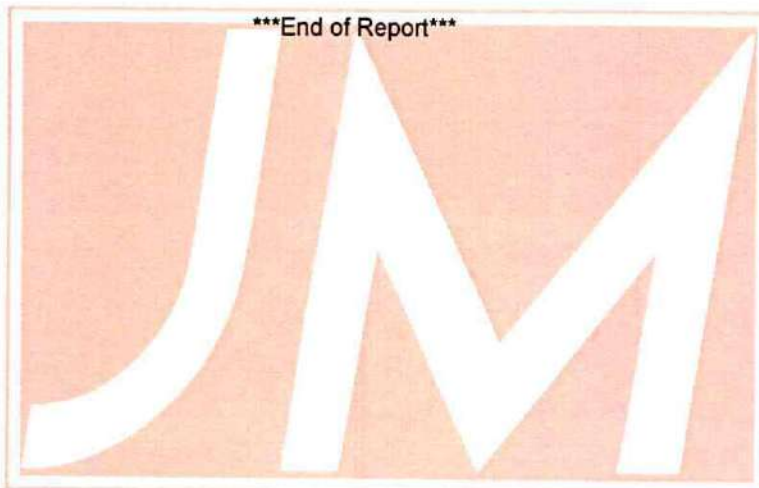
Report No.: JME/A/240729032

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.64	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	22.7	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO limit as per CTO is 2 mg/m³

End of Report



Page No. 2 of 2


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TEST REPORT

Sample Number: **JME/GILCD/A/02**
Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240729032/N**
Format No.: **7.5 F-02**
Party Ref. No.: **Nil**
Reporting Date: **02/08/2024**
Analysis Completion Date: **02/08/2024**
Analysis Start Date: **29/07/2024**
Receipt Date: **29/07/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Sampling Location : **Membrane Caustic Soda Plant-2**
Latitude : **23° 26' 16.4" N**
Longitude : **75° 24' 32.2" E**
Instrument Used : **RDS & BS**
Instrument Code : **JME/RDS/01/36, JME/BS/01/02**
Instrument Calibration Status : **Calibrated**
Meteorological Condition During Monitoring : **Clear Sky**
Date of Monitoring : **23/07/2024 to 24/07/2024**
Time of Monitoring : **09:20 to 09:20 Hrs.**
Actual Duration of Monitoring, (minutes) : **1430.0**
Ambient Temperature (°C) : **Max 33°C, Min 27°C**
Surrounding Activity : **Plant Operation, Vehicular & Human Activities**
Control Measure if Any : **--**
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	25.2	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

Deenak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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30 years of success

J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/03**
Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240729033**
Format No.: **7.5 F-02**
Party Ref. No.: **Nil**
Reporting Date: **02/08/2024**
Analysis Completion Date: **02/08/2024**
Analysis Start Date: **29/07/2024**
Receipt Date: **29/07/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Sampling Location : **Bora Godown Area**
Latitude : **23° 26' 26.4" N**
Longitude : **75° 24' 37.6" E**
Instrument Used : **RDS, FPS & BS**
Instrument Code : **JME/RDS/01/36, JME/FPS/01/55 & JME/BS/01/02**
Instrument Calibration Status : **Calibrated**
Meteorological Condition During Monitoring : **Clear Sky**
Date of Monitoring : **25/07/2024 to 26/07/2024**
Time of Monitoring : **12:10 to 12:10 Hrs.**
Actual Duration of Monitoring, (minutes) : **1409.0**
Ambient Temperature (°C) : **Max 32°C, Min 27°C**
Surrounding Activity : **Near GIL Railway line, Vehicular & Human Activities**
Control Measure if Any : **--**
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS:5182, (Part-24)	35.7	µg/m³	60
2.	PM10	IS:5182, (Part-23)	70.5	µg/m³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	28.5	µg/m³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	14.0	µg/m³	80
5.	Ozone	IS:5182, (Part-9)	23.6	µg/m³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m³	1

Page No. 1 of 2

Deepak Singh
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Abhishek Tiwari
Checked by

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Authorized Signatory

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TEST REPORT

Sample Number: JME/GILCD/A/03

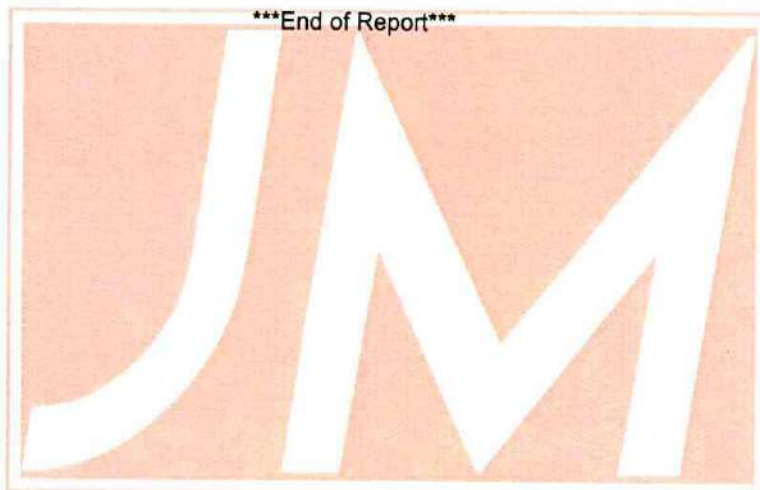
Report No.: JME/A/240729033

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.66	mg/m ³	**
8.	Ammonia	IS: 5182, (Part -25)	25.9	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO Limit as per CTO is 2 mg/m³

End of Report



Page No. 2 of 2

Deepak Singh
Deepak Singh
Tested by

Abhishek Tiwari
Abhishek Tiwari
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number: JME/GILCD/A/03 Report No.: JME/A/240729033/N
 Name & Address of Unit: M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh
 Format No.: 7.5 F-02
 Party Ref. No: Nil
 Reporting Date: 02/08/2024
 Analysis Completion Date: 02/08/2024
 Analysis Start Date: 29/07/2024
 Receipt Date: 29/07/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
 Sample Collected by : JMELPL Team
 Sampling Location : Bora Godown Area
 Latitude : 23° 26' 26.4" N
 Longitude : 75° 24' 37.6" E
 Instrument Used : RDS & BS
 Instrument Code : JME/RDS/01/36, JME/BS/01/02
 Instrument Calibration Status : Calibrated
 Meteorological Condition During Monitoring : Clear Sky
 Date of Monitoring : 25/07/2024 to 26/07/2024
 Time of Monitoring : 13:10 to 13:10 Hrs.
 Actual Duration of Monitoring, (minutes) : 1409.0
 Ambient Temperature (°C) : Max 32°C, Min 27°C
 Surrounding Activity : Near GIL Railway line, Vehicular & Human Activities
 Control Measure if Any : --
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	30.1	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

Page No. 1 of 1

Deepak Singh
 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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TEST REPORT

Sample Number: JME/GILCD/A/04 Report No.: JME/A/240729034
 Name & Address of Unit: M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda- 456331
 Madhya Pradesh
 Format No.: 7.5 F-02
 Party Ref. No.: Nil
 Reporting Date: 02/08/2024
 Analysis Completion Date: 02/08/2024
 Analysis Start Date: 29/07/2024
 Receipt Date: 29/07/2024

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
 Sample Collected by : JMELPL Team
 Sampling Location : Pardi Gate
 Latitude : 23° 26' 18.4" N
 Longitude : 75° 24' 53.6" E
 Instrument Used : RDS, FPS & BS
 Instrument Code : JME/RDS/01/36, JME/FPS/01/55 & JME/BS/01/02
 Instrument Calibration Status : Calibrated
 Meteorological Condition During Monitoring : Clear Sky
 Date of Monitoring : 26/07/2024 to 27/07/2024
 Time of Monitoring : 14:00 to 14:00 Hrs.
 Actual Duration of Monitoring, (minutes) : 1422.0
 Ambient Temperature (°C) : Max 33°C, Min 27°C
 Surrounding Activity : Heavy Vehicular & Human Activities
 Control Measure if Any : --
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	PM2.5	IS:5182, (Part-24)	37.5	µg/m ³	60
2.	PM10	IS:5182, (Part-23)	72.4	µg/m ³	100
3.	Nitrogen Dioxide	IS:5182, (Part-6)	24.0	µg/m ³	80
4.	Sulphur Dioxide	IS:5182, (Part-2)	11.6	µg/m ³	80
5.	Ozone	IS:5182, (Part-9)	24.3	µg/m ³	180
6.	Lead	IS:5182, (Part-22)	BDL (DL 0.02)	µg/m ³	1

Page No. 1 of 2

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Smt. Ram Yadav
Authorized Signatory

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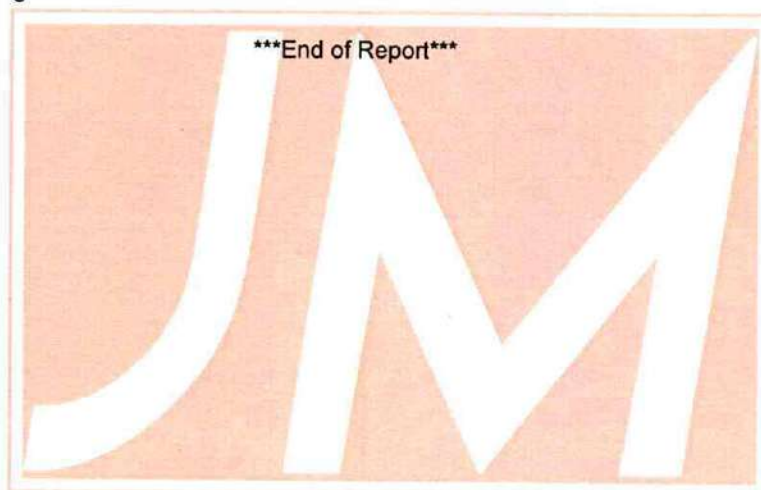
TEST REPORT

Sample Number: JME/GILCD/A/04

Report No.: JME/A/240729034

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
7.	Carbon Monoxide	IS: 5182, (Part-10)	0.78	mg/m ³	**
8.	Ammonia	IS: 5182, (Part-25)	21.2	µg/m ³	400
9.	Benzene	IS: 5182, (Part-11)	BDL (DL 1.0)	µg/m ³	5
10.	Benzo (a) pyrene	IS: 5182, (Part-12)	BDL (DL 0.5)	ng/m ³	1
11.	Arsenic	IS: 5182 (Part-22)	BDL (DL 0.5)	ng/m ³	6
12.	Nickel	IS: 5182 (Part-26)	BDL (DL 1.0)	ng/m ³	20
13.	Chlorine	IS: 5182, (Part-19)	BDL (DL 10.0)	µg/m ³	--

Note: NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

**CO Limit as per CTO is 2 mg/m³

Page No. 2 of 2

Deepak Singh
Deepak Singh
Tested by

Abhishek Tiwari
Abhishek Tiwari
Checked by

Sita Ram Yadav
Sita Ram Yadav
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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number: **JME/GILCD/A/04**
Name & Address of Unit: **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda- 456331
Madhya Pradesh

Report No.: **JME/A/240729034/N**
Format No.: **7.5 F-02**
Party Ref. No.: **Nil**
Reporting Date: **02/08/2024**
Analysis Completion Date: **02/08/2024**
Analysis Start Date: **29/07/2024**
Receipt Date: **29/07/2024**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Sampling Location : **Pardi Gate**
Latitude : **23° 26' 18.4" N**
Longitude : **75° 24' 53.6" E**
Instrument Used : **RDS & BS**
Instrument Code : **JME/RDS/01/36, JME/BS/01/02**
Instrument Calibration Status : **Calibrated**
Meteorological Condition During Monitoring : **Clear Sky**
Date of Monitoring : **26/07/2024 to 27/07/2024**
Time of Monitoring : **14:00 to 14:00 Hrs.**
Actual Duration of Monitoring, (minutes) : **1422.0**
Ambient Temperature (°C) : **Max 33°C, Min 27°C**
Surrounding Activity : **Heavy Vehicular & Human Activities**
Control Measure if Any : **--**
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	TVOC	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	33.4	µg/m ³	--
2.	Acid Mist	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--
3.	Hydrochloric Acid (HCl)	JMELPL/STOP/03 (Issue no 1, Issue Date- 21.09.2022)	BDL (DL 5.0)	µg/m ³	--

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Deepak Singh
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Checked by

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Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/GILCD/ST/01** Report No. **JME/ST/240425051**
Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331, Party Reference No. **Nil**
Madhya Pradesh Reporting Date **27/04/2024**
Analysis Completion Date: **27/04/2024**
Analysis Start Date: **25/04/2024**
Receipt Date **25/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **23/04/2024 (09:10 to 10:02 Hrs.)**
Sampling Location & Code : **DG Set 2000 KVA (Near CAP Area)**
Sampling Duration (Minutes) : **52.0**
Stack Attached to : **DG Set**
Make of Stack : **Iron**
Diameter of Stack : **0.3 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **30.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **--**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **Diesel**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature - Ta (°C) : **30.0**
Temperature of Stack Gases - Ts (°C) : **211.0**
Velocity of Stack Gases (m/sec.) : **11.53**
Flow rate of PM (LPM) : **29.0**
Flow rate of Gas (LPM) : **2.1**
Volumetric Flow (Nm³/Hrs.) : **1734.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter	IS: 11255 (Part - 1)	54.6	mg/Nm ³	75
2.	Oxides of Nitrogen	IS: 11255 (Part -7) PDA Method	282.19	ppmv	710
3.	Sulphur Dioxide	IS: 11255 (Part-2) Titrimetric Method	22.95	mg/Nm ³	--
4.	Carbon Monoxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	89.0	mg/Nm ³	150
5.	Carbon Dioxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	2.8	%	--
6.	Hydrocarbon	IS: 11255 (Part-13)	20.43	mg/Nm ³	--
7.	Non-Methane Hydrocarbon as C	JMELPL/STOP/03 (Issue Date 21.09.2022)	10.07	mg/Nm ³	100

Note: Limit as per Environment (Protection) Rules, 1986
All results are corrected at 15% O₂ level.

End of Report

Deepti Singh
Deepti Singh

Tested by

Abhishek Tiwari
Abhishek Tiwari

Checked by



Authorized Signatory

Page No. 1 of 1

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J.M. ENVIROLAB PVT. LTD.

CIN No.: U74220HR2011PTC085758

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/GILCD/ST/02**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240425052**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **27/04/2024**
Analysis Completion Date: **27/04/2024**
Analysis Start Date: **25/04/2024**
Receipt Date **25/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **23/04/2024 (11:30 to 12:20 Hrs.)**
Sampling Location & Code : **DG Set 2000 KVA (VAP,s Area)**
Sampling Duration (Minutes) : **50.0**
Stack Attached to : **DG Set**
Make of Stack : **Iron**
Diameter of Stack : **0.3 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **30.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **--**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **Diesel**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **33.0**
Temperature of Stack Gases - Ts (°C) : **210.0**
Velocity of Stack Gases (m/sec.) : **11.68**
Flow rate of PM (LPM) : **29.0**
Flow rate of Gas (LPM) : **2.8**
Volumetric Flow (Nm³/Hrs.) : **1760.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	Limit
1.	Particulate Matter	IS: 11255 (Part – 1)	43.0	mg/Nm ³	75
2.	Oxides of Nitrogen	IS: 11255 (Part -7) PDA Method	247.12	ppmv	710
3.	Sulphur Dioxide	IS: 11255 (Part-2) Titrimetric Method	17.73	mg/Nm ³	--
4.	Carbon Monoxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	96.0	mg/Nm ³	150
5.	Carbon Dioxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	2.8	%	--
6.	Hydrocarbon	IS: 11255 (Part-13)	19.08	mg/Nm ³	--
7.	Non-Methane Hydrocarbon as C	JMELPL/STOP/03 (Issue Date 21.09.2022)	7.79	mg/Nm ³	100

Note: Limit as per Environment (Protection) Rules, 1986
All results are corrected at 15% O₂ level.

End of Report

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No. :U74220HR2011PTC085756

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TEST REPORT

Sample Number JME/GILCD/ST/03 Report No. JME/ST/240425053
Name & Address of Unit M/s. Grasim Industries Limited Format No. 7.5 F-03
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
Party Reference No. Nil
Reporting Date 27/04/2024
Analysis Completion Date: 27/04/2024
Analysis Start Date: 25/04/2024
Receipt Date 25/04/2024

Sample Description STACK EMISSION MONITORING

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JME/LPL Team
Date of Sampling & Time : 23/04/2024(14:40 to 15:28 Hrs.)
Sampling Location & Code : Spray Dryer Stack-I, Poly Aluminum Chloride Plant
Sampling Duration (Minutes) : 48.0
Stack Attached to : Spray Dryer
Make of Stack : Iron
Diameter of Stack : 1.0 m.
Height of Stack :
(i)From the Source of Emission : --
(ii)From Roof Level : --
(iii)From Ground Level : 34.0 m.
Operating Schedule (Hrs./day) : As per Required
Purpose of Monitoring : Regulatory Requirement
Control Measure if Any : Spray Dryer
Operating Condition at the time of Sampling : On Load
Type of fuel Used : --
Meteorological Condition : Clear Sky
Instrument Code : JME/SMK/01/02
Instrument Calibration status : Calibrated
Ambient Temperature – Ta (°C) : 35.0
Temperature of Stack Gases - Ts (°C) : 46.0
Velocity of Stack Gases (m/sec.) : 8.0
Flow rate of PM (LPM) : 30.0
Flow rate of Gas (LPM) : 3.0
Volumetric Flow (Nm³/Hrs.) : 20286.0
Sampling Condition : Isokinetic
Protocol Used : IS-11255 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	9.5	mg/Nm ³
2.	Hydrochloric Acid	LATS as per CPCB	6.8	mg/Nm ³

End of Report

Page No. 1 of 1

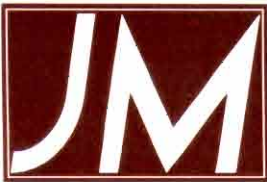
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TEST REPORT

Sample Number JME/GILCD/ST/04
Name & Address of Unit M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. JME/ST/240425054
Format No. 7.5 F-03
Party Reference No. Nil
Reporting Date 27/04/2024
Analysis Completion Date: 27/04/2024
Analysis Start Date: 25/04/2024
Receipt Date 25/04/2024

Sample Description STACK EMISSION MONITORING

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Date of Sampling & Time : 24/04/2024 (09:50 to 10:37 Hrs.)
Sampling Location & Code : Spray Dryer Stack-II, Poly Aluminum Chloride Plant
Sampling Duration (Minutes) : 47.0
Stack Attached to : Spray Dryer
Make of Stack : Iron
Diameter of Stack : 1.0 m.
Height of Stack :
(i) From the Source of Emission : --
(ii) From Roof Level : --
(iii) From Ground Level : 34.0 m.
Operating Schedule (Hrs./day) : As per Required
Purpose of Monitoring : Regulatory Requirement
Control Measure if Any : Spray Dryer
Operating Condition at the time of Sampling : On Load
Type of fuel Used : --
Meteorological Condition : Clear Sky
Instrument Code : JME/SMK/01/02
Instrument Calibration status : Calibrated
Ambient Temperature – Ta (°C) : 30.0
Temperature of Stack Gases - Ts (°C) : 44.0
Velocity of Stack Gases (m/sec.) : 7.98
Flow rate of PM (LPM) : 31.0
Flow rate of Gas (LPM) : 2.1
Volumetric Flow (Nm³/Hrs.) : 20362.0
Sampling Condition : Isokinetic
Protocol Used : IS-11255 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	16.0	mg/Nm ³
2.	Hydrochloric Acid	LATS as per CPCB	7.4	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/05**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Sample Description **STACK EMISSION MONITORING**

Report No. **JME/ST/240425055**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **27/04/2024**
Analysis Completion Date: **27/04/2024**
Analysis Start Date: **25/04/2024**
Receipt Date **25/04/2024**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **24/04/2024 (11:20 to 11:50 Hrs.)**
Sampling Location & Code : **Spray Liquid Stack, Poly Aluminum Chloride Plant**
Sampling Duration (Minutes) : **30.0**
Stack Attached to : **Spray Liquid**
Make of Stack : **Iron**
Diameter of Stack : **1.0 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **30.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Spray Dryer**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **32.0**
Temperature of Stack Gases - Ts (°C) : **--**
Velocity of Stack Gases (m/sec.) : **--**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **--**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	8.3	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/06**
 Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240429056**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **01/05/2024**
 Analysis Completion Date: **01/05/2024**
 Analysis Start Date: **29/04/2024**
 Receipt Date **29/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/04/2024 (10:20 to 11:07 Hrs.)**
 Sampling Location & Code : **Stable Bleaching Powder Stack (Phase 1&2)**
 Sampling Duration (Minutes) : **47.0**
 Stack Attached to : **Stable Bleaching Powder Plant**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m.**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **30.0 m.**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **--**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/02**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (⁰C) : **32.0**
 Temperature of Stack Gases - Ts (⁰C) : **41.0**
 Velocity of Stack Gases (m/sec.) : **7.83**
 Flow rate of PM (LPM) : **32.0**
 Flow rate of Gas (LPM) : **1.8**
 Volumetric Flow (Nm³/Hrs.) : **201.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	9.3	mg/Nm ³
2.	Chlorine	LATS as per CPCB	7.0	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Deepak Singh
Tested by

Ashish Tiwari
Ashish Tiwari
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

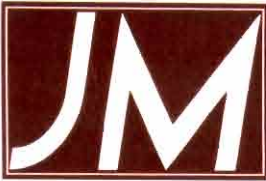
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TEST REPORT

Sample Number **JME/GILCD/ST/07**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240429057**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **01/05/2024**
Analysis Completion Date: **01/05/2024**
Analysis Start Date: **29/04/2024**
Receipt Date **29/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **25/04/2024 (11:50 to 12:38 Hrs.)**
Sampling Location & Code : **Stable Bleaching Powder Stack (Phase 3&4)**
Sampling Duration (Minutes) : **48.0**
Stack Attached to : **Stable Bleaching Powder Plant**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m.**
Height of Stack :
(i)From the Source of Emission : **--**
(ii)From Roof Level : **--**
(iii)From Ground Level : **30.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **--**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **35.0**
Temperature of Stack Gases - Ts (°C) : **43.0**
Velocity of Stack Gases (m/sec.) : **8.1**
Flow rate of PM (LPM) : **31.0**
Flow rate of Gas (LPM) : **2.7**
Volumetric Flow (Nm³/Hrs.) : **207.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	9.0	mg/Nm ³
2.	Chlorine	LATS as per CPCB	7.3	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/08**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240429058**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **01/05/2024**
Analysis Completion Date: **01/05/2024**
Analysis Start Date: **29/04/2024**
Receipt Date **29/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **25/04/2024 (14:40 to 15:20 Hrs.)**
Sampling Location & Code : **Caustic Soda Plant-I, Furnace-H Stack**
Sampling Duration (Minutes) : **40.0**
Stack Attached to : **Furnace-H Water Scrubber**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **34.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Water Scrubber**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **35.0**
Temperature of Stack Gases - Ts (°C) : **--**
Velocity of Stack Gases (m/sec.) : **--**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **--**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	7.6	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No. :U74220HR2011PTC085756

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TEST REPORT

Sample Number **JME/GILCD/ST/09** Report No. **JME/ST/240429059**
Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331, Party Reference No. **Nil**
Madhya Pradesh Reporting Date **01/05/2024**
Analysis Completion Date: **01/05/2024**
Analysis Start Date: **29/04/2024**
Receipt Date **29/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **26/04/2024 (10:30 to 11:00 Hrs.)**
Sampling Location & Code : **Caustic Soda Plant-I, Furnace-G Stack**
Sampling Duration (Minutes) : **30.0**
Stack Attached to : **Furnace-G Water Scrubber**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **34.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Water Scrubber**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **31.0**
Temperature of Stack Gases – Ts (°C) : **42.0**
Velocity of Stack Gases (m/sec.) : **8.67**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **222.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	8.7	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
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Ashish Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No. :U74220HR2011PTC085756

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TEST REPORT

Sample Number **JME/GILCD/ST/10** Report No. **JME/ST/240429060**
Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331, Party Reference No. **Nil**
Madhya Pradesh Reporting Date **01/05/2024**
Analysis Completion Date: **01/05/2024**
Analysis Start Date: **29/04/2024**
Receipt Date **29/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **26/04/2024 (11:35 to 12:05 Hrs.)**
Sampling Location & Code : **Caustic Soda Plant-I, Sodium Hypo Chlorine Stack**
Sampling Duration (Minutes) : **30.0**
Stack Attached to : **Sodium Hypo Chlorine Alkali Scrubber**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **34.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Alkali Scrubber**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **34.0**
Temperature of Stack Gases - Ts (°C) : **38.0**
Velocity of Stack Gases (m/sec.) : **8.73**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **227.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	6.7	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

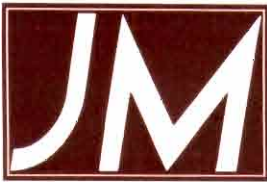
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TEST REPORT

Sample Number JME/GILCD/ST/11
Name & Address of Unit M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
Sample Description STACK EMISSION MONITORING

Report No. JME/ST/240429061
Format No. 7.5 F-03
Party Reference No. Nil
Reporting Date 01/05/2024
Analysis Completion Date: 01/05/2024
Analysis Start Date: 29/04/2024
Receipt Date 29/04/2024

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JME/PL Team
Date of Sampling & Time : 26/04/2024 (14:30 to 15:00 Hrs.)
Sampling Location & Code : Caustic Soda Plant-II, HCl Furnace-50 TPD Stack
Sampling Duration (Minutes) : 30.0
Stack Attached to : HCL Furnace Water Scrubber
Make of Stack : Iron
Diameter of Stack : 0.1 m.
Height of Stack :
(i) From the Source of Emission : --
(ii) From Roof Level : --
(iii) From Ground Level : 34.0 m.
Operating Schedule (Hrs./day) : As per Required
Purpose of Monitoring : Regulatory Requirement
Control Measure if Any : Water Scrubber
Operating Condition at the time of Sampling : On Load
Type of fuel Used : --
Meteorological Condition : Clear Sky
Instrument Code : JME/SMK/01/02
Instrument Calibration status : Calibrated
Ambient Temperature – Ta (°C) : 34.0
Temperature of Stack Gases - Ts (°C) : 40.0
Velocity of Stack Gases (m/sec.) : 8.51
Flow rate of PM (LPM) : --
Flow rate of Gas (LPM) : 2.0
Volumetric Flow (Nm³/Hrs.) : 219.0
Sampling Condition : Isokinetic
Protocol Used : IS-11255 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	5.9	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number JME/GILCD/ST/12 Report No. JME/ST/240429062
Name & Address of Unit M/s. Grasim Industries Limited Format No. 7.5 F-03
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
Party Reference No. Nil
Reporting Date 01/05/2024
Analysis Completion Date: 01/05/2024
Analysis Start Date: 29/04/2024
Receipt Date 29/04/2024
Sample Description STACK EMISSION MONITORING
Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Date of Sampling & Time : 27/04/2024 (09:00 to 09:40 Hrs.)
Sampling Location & Code : Caustic Soda Plant-II, Sodium Hypo Chlorine Stack
Sampling Duration (Minutes) : 40.0
Stack Attached to : Hypo MC-2 Alkali Scrubber
Make of Stack : Iron
Diameter of Stack : 0.1 m.
Height of Stack
(i)From the Source of Emission : --
(ii)From Roof Level : --
(iii)From Ground Level : 34.0 m.
Operating Schedule (Hrs./day) : As per Required
Purpose of Monitoring : Regulatory Requirement
Control Measure if Any : Alkali Scrubber
Operating Condition at the time of Sampling : On Load
Type of fuel Used : --
Meteorological Condition : Clear Sky
Instrument Code : JME/SMK/01/02
Instrument Calibration status : Calibrated
Ambient Temperature – Ta (°C) : 31.0
Temperature of Stack Gases - Ts (°C) : --
Velocity of Stack Gases (m/sec.) : --
Flow rate of PM (LPM) : --
Flow rate of Gas (LPM) : 2.0
Volumetric Flow (Nm³/Hrs.) : --
Sampling Condition : Isokinetic
Protocol Used : IS-11255 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	6.5	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh

Tested by

Abhishek Tiwari

Checked by

Shankam Yadav

Authorized Signatory

Note:

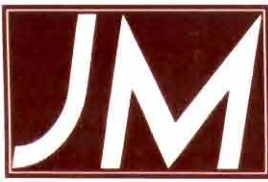
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TEST REPORT

Sample Number JME/GILCD/ST/13
Name & Address of Unit M/s. Grasim Industries Limited
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. JME/ST/240429063
Format No. 7.5 F-03
Party Reference No. Nil
Reporting Date 01/05/2024
Analysis Completion Date: 01/05/2024
Analysis Start Date: 29/04/2024
Receipt Date 29/04/2024

Sample Description STACK EMISSION MONITORING

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by : JMELPL Team
Date of Sampling & Time : 27/04/2024 (11:30 to 12:10 Hrs.)
Sampling Location & Code : 901-A Water Scrubber
Sampling Duration (Minutes) : 40.0
Stack Attached to : Water Scrubber
Make of Stack : Iron
Diameter of Stack : 0.1 m.
Height of Stack :
(i)From the Source of Emission : --
(ii)From Roof Level : --
(iii)From Ground Level : 34.0 m.
Operating Schedule (Hrs./day) : As per Required
Purpose of Monitoring : Regulatory Requirement
Control Measure if Any : Alkali Scrubber
Operating Condition at the time of Sampling : On Load
Type of fuel Used : --
Meteorological Condition : Clear Sky
Instrument Code : JME/SMK/01/02
Instrument Calibration status : Calibrated
Ambient Temperature – Ta (°C) : 35.0
Temperature of Stack Gases - Ts (°C) : --
Velocity of Stack Gases (m/sec.) : --
Flow rate of PM (LPM) : --
Flow rate of Gas (LPM) : 2.0
Volumetric Flow (Nm³/Hrs.) : --
Sampling Condition : Isokinetic
Protocol Used : IS-11255 & CPCB Guidelines
Parameter Required : As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	7.7	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/14	Report No.	JME/ST/240429064
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	01/05/2024
		Analysis Completion Date:	01/05/2024
		Analysis Start Date:	29/04/2024
Sample Description	STACK EMISSION MONITORING	Receipt Date	29/04/2024

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JME/PL Team
Date of Sampling & Time	: 27/04/2024 (14:40 to 15:10 Hrs.)
Sampling Location & Code	: Chlorinated Paraffin Plant Site
Sampling Duration (Minutes)	: 30.0
Stack Attached to	: HCL Water Scrubber Stack
Make of Stack	: Iron
Diameter of Stack	: 0.1 m.
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 34.0 m.
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: Alkali Scrubber
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/02
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 35.0
Temperature of Stack Gases - Ts (°C)	: 47.0
Velocity of Stack Gases (m/sec.)	: 6.2
Flow rate of PM (LPM)	: --
Flow rate of Gas (LPM)	: 2.0
Volumetric Flow (Nm ³ /Hrs.)	: 156.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	6.6	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Deepak Singh

Tested by

Abhishek Tiwari
Abhishek Tiwari

Checked by

Sita Ram Yadav
Sita Ram Yadav

Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/15**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240429065**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **01/05/2024**
Analysis Completion Date: **01/05/2024**
Analysis Start Date: **29/04/2024**
Receipt Date **29/04/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **27/04/2024 (16:40 to 17:10 Hrs.)**
Sampling Location & Code : **Chlorinated Paraffin Plant Site**
Sampling Duration (Minutes) : **30.0**
Stack Attached to : **Chlorinated Paraffin**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m.**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **34.0 m.**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Alkali Scrubber**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/02**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **34.0**
Temperature of Stack Gases – Ts (°C) : **42.0**
Velocity of Stack Gases (m/sec.) : **5.88**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **151.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	BDL (DL 1.0)	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/16	Report No.	JME/ST/240425066
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
Sample Description	STACK EMISSION MONITORING	Party Reference No.	Nil
		Reporting Date	27/04/2024
		Analysis Completion Date:	27/04/2024
		Analysis Start Date:	25/04/2024
		Receipt Date	25/04/2024
Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)		
Sample Collected by	: JMELPL Team		
Date of Sampling & Time	: 23/04/2024 (15:40 to 16:10 Hrs.)		
Sampling Location & Code	: Calcium Chloride Stack		
Sampling Duration (Minutes)	: 30.0		
Stack Attached to	: Calcium Chloride water Scrubber		
Make of Stack	: Iron		
Diameter of Stack	: 0.1 m.		
Height of Stack	:		
(i) From the Source of Emission	: --		
(ii) From Roof Level	: --		
(iii) From Ground Level	: 34.0 m.		
Operating Schedule (Hrs./day)	: As per Required		
Purpose of Monitoring	: Regulatory Requirement		
Control Measure if Any	: Water Scrubber		
Operating Condition at the time of Sampling	: On Load		
Type of fuel Used	: --		
Meteorological Condition	: Clear Sky		
Instrument Code	: JME/SMK/01/02		
Instrument Calibration status	: Calibrated		
Ambient Temperature – Ta (°C)	: 34.0		
Temperature of Stack Gases - Ts (°C)	: 43.0		
Velocity of Stack Gases (m/sec.)	: 9.29		
Flow rate of PM (LPM)	: --		
Flow rate of Gas (LPM)	: 2.0		
Volumetric Flow (Nm ³ /Hrs.)	: 237.0		
Sampling Condition	: Isokinetic		
Protocol Used	: IS-11255 & CPCB Guidelines		
Parameter Required	: As per work order		

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	8.0	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Deepak Singh
Tested by

Abhishek Tiwari
Abhishek Tiwari
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/01	Report No.	JME/ST/240726111
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 22/07/2024 (08:30 to 09:22 Hrs.)
Sampling Location & Code	: DG Set 2000 KVA (Near CAP Area)
Sampling Duration (Minutes)	: 52.0
Stack Attached to	: DG Set
Make of Stack	: Iron
Diameter of Stack	: 0.3 m
Height of Stack	:
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 30.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: --
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: Diesel
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 27.0
Temperature of Stack Gases - Ts (°C)	: 209.0
Velocity of Stack Gases (m/sec.)	: 11.24
Flow rate of PM (LPM)	: 28.0
Flow rate of Gas (LPM)	: 2.0
Volumetric Flow (Nm ³ /Hrs.)	: 1713.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter	IS: 11255 (Part – 1)	52.8	mg/Nm ³	75
2.	Oxides of Nitrogen (as NO ₂)	IS: 11255 (Part -7) PDA Method	201.43	ppmv	710
3.	Sulphur Dioxide	IS: 11255 (Part-2) Titrimetric Method	20.07	mg/Nm ³	--
4.	Carbon Monoxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	85.4	mg/Nm ³	150
5.	Carbon Dioxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	2.2	%	--
6.	Hydrocarbon as Methane	Method 26a	15.23	mg/Nm ³	--
7.	Non-Methane Hydrocarbon as C	JMELPL/STOP/03 (Issue Date 21.09.2022)	12.06	mg/Nm ³	100

Note: Limit as per Environment (Protection) Rules, 1986
All results are corrected at 15% O₂ level.

End of Report

Deepraj Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/02	Report No.	JME/ST/240726112
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024
Sample Description	STACK EMISSION MONITORING		

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 22/07/2024 (10:40 to 11:35 Hrs.)
Sampling Location & Code	: DG Set 2000 KVA (VAP Area)
Sampling Duration (Minutes)	: 55.0
Stack Attached to	: DG Set
Make of Stack	: Iron
Diameter of Stack	: 0.3 m
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 30.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: --
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: Diesel
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature - Ta (°C)	: 30.0
Temperature of Stack Gases - Ts (°C)	: 203.0
Velocity of Stack Gases (m/sec.)	: 10.05
Flow rate of PM (LPM)	: 27.0
Flow rate of Gas (LPM)	: 2.0
Volumetric Flow (Nm³/Hrs.)	: 1621.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	Limit
1.	Particulate Matter	IS: 11255 (Part - 1)	39.5	mg/Nm³	75
2.	Oxides of Nitrogen (as NO2)	IS: 11255 (Part -7) PDA Method	192.23	ppmv	710
3.	Sulphur Dioxide	IS: 11255 (Part-2) Titrimetric Method	15.91	mg/Nm³	--
4.	Carbon Monoxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	88.4	mg/Nm³	150
5.	Carbon Dioxide	JMELPL/STOP/03 (Issue Date 21.09.2022)	2.2	%	--
6.	Hydrocarbon as Methane	Method 26a	13.67	mg/Nm³	--
7.	Non-Methane Hydrocarbon as C	JMELPL/STOP/03 (Issue Date 21.09.2022)	11.61	mg/Nm³	100

Note: Limit as per Environment (Protection) Rules, 1986
All results are corrected at 15% O2 level.

End of Report

Dee...
Tested by

Abhishek Tiwari
Checked by

Sita Ram...
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/03	Report No.	JME/ST/240726113
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 22/07/2024 (14:00 to 14:47 Hrs.)
Sampling Location & Code	: Spray Dryer Stack-I, Poly Aluminum Chloride Plant
Sampling Duration (Minutes)	: 47.0
Stack Attached to	: Spray Dryer
Make of Stack	: Iron
Diameter of Stack	: 1.0 m
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 34.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: Spray Dryer
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 32.0
Temperature of Stack Gases - Ts (°C)	: 44.0
Velocity of Stack Gases (m/sec.)	: 8.19
Flow rate of PM (LPM)	: 32.0
Flow rate of Gas (LPM)	: --
Volumetric Flow (Nm ³ /Hrs.)	: 21099.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	8.9	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/04	Report No.	JME/ST/240726114
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024
Sample Description	STACK EMISSION MONITORING		

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 22/07/2024 (14:00 to 14:47 Hrs.)
Sampling Location & Code	: Spray Dryer Stack-I, Poly Aluminum Chloride Plant
Sampling Duration (Minutes)	: 47.0
Stack Attached to	: Spray Dryer
Make of Stack	: Iron
Diameter of Stack	: 1.0 m
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 34.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: Spray Dryer
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 32.0
Temperature of Stack Gases - Ts (°C)	: 44.0
Velocity of Stack Gases (m/sec.)	: 8.19
Flow rate of PM (LPM)	: 30.0
Flow rate of Gas (LPM)	: 2.0
Volumetric Flow (Nm³/Hrs.)	: 21099.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	6.4	mg/Nm³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/05** Report No. **JME/ST/240726115**
 Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **23/07/2024 (09:50 to 10:45 Hrs.)**
 Sampling Location & Code : **Spray Dryer Stack-II, Poly Aluminum Chloride Plant**
 Sampling Duration (Minutes) : **55.0**
 Stack Attached to : **Spray Dryer**
 Make of Stack : **Iron**
 Diameter of Stack : **1.0 m**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Spray Dryer**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **29.0**
 Temperature of Stack Gases – Ts (°C) : **42.0**
 Velocity of Stack Gases (m/sec.) : **7.15**
 Flow rate of PM (LPM) : **32.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (Nm³/Hrs.) : **18536.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	11.7	mg/Nm ³

End of Report

Page No. 1 of 1

[Signature]
Tested by

[Signature]
Checked by

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TEST REPORT

Sample Number	JME/GILCD/ST/06	Report No.	JME/ST/240726116
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 23/07/2024 (09:50 to 10:45 Hrs.)
Sampling Location & Code	: Spray Dryer Stack-II, Poly Aluminum Chloride Plant
Sampling Duration (Minutes)	: 55.0
Stack Attached to	: Spray Dryer
Make of Stack	: Iron
Diameter of Stack	: 1.0 m
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 34.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: Spray Dryer
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 27.0
Temperature of Stack Gases - Ts (°C)	: 42.0
Velocity of Stack Gases (m/sec.)	: 7.15
Flow rate of PM (LPM)	: 30.0
Flow rate of Gas (LPM)	: 1.8
Volumetric Flow (Nm ³ /Hrs.)	: 18536.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	6.5	mg/Nm ³

End of Report

Page No. 1 of 1

Devi Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/07**
 Name & Address of Unit **M/s. Grasim Industries Limited
 Chemical Division
 Birlagram, Nagda-456331,
 Madhya Pradesh**

Report No. **JME/ST/240726117**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **23/07/2024 (14:00 to 14:30 Hrs.)**
 Sampling Location & Code : **Spray Liquid Stack, Poly Aluminum Chloride Plant**
 Sampling Duration (Minutes) : **30.0**
 Stack Attached to : **Spray Liquid**
 Make of Stack : **Iron**
 Diameter of Stack : **1.0 m**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **30.0 m**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Spray Dryer**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **30.0**
 Temperature of Stack Gases - Ts (°C) : **35.0**
 Velocity of Stack Gases (m/sec.) : **7.18**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **19037.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	7.7	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/08	Report No.	JME/ST/240726118
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
Sample Description	STACK EMISSION MONITORING	Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JME/LPL Team
Date of Sampling & Time	: 23/07/2024 (15:20 to 16:07 Hrs.)
Sampling Location & Code	: Stable Bleaching Powder Stack (Phase 1&2)
Sampling Duration (Minutes)	: 47.0
Stack Attached to	: Stable Bleaching Powder Plant
Make of Stack	: Iron
Diameter of Stack	: 0.1 m
Height of Stack	: --
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 30.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: --
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 32.0
Temperature of Stack Gases - Ts (°C)	: 40.0
Velocity of Stack Gases (m/sec.)	: 7.09
Flow rate of PM (LPM)	: 28.0
Flow rate of Gas (LPM)	: --
Volumetric Flow (Nm ³ /Hrs.)	: 184.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part – 1)	8.6	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/09	Report No.	JME/ST/240726119
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024
Sample Description	STACK EMISSION MONITORING		

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JME/PL Team
Date of Sampling & Time	: 23/07/2024 (15:20 to 16:07 Hrs.)
Sampling Location & Code	: Stable Bleaching Powder Stack (Phase 1&2)
Sampling Duration (Minutes)	: 47.0
Stack Attached to	: Stable Bleaching Powder Plant
Make of Stack	: Iron
Diameter of Stack	: 0.1 m
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 30.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: --
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 32.0
Temperature of Stack Gases - Ts (°C)	: 40.0
Velocity of Stack Gases (m/sec.)	: 7.09
Flow rate of PM (LPM)	: 26.0
Flow rate of Gas (LPM)	: 1.9
Volumetric Flow (Nm³/Hrs.)	: 184.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	6.3	mg/Nm³

End of Report

Page No. 1 of 1

Devi Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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CIN No.: U74220HR2011PTC005756

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TEST REPORT

Sample Number **JME/GILCD/ST/10**
 Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240726120**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **24/07/2024 (09:30 to 10:20 Hrs.)**
 Sampling Location & Code : **Stable Bleaching Powder Stack (Phase 3&4)**
 Sampling Duration (Minutes) : **50.0**
 Stack Attached to : **Stable Bleaching Powder Plant**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m**
 Height of Stack : **0.1 m**
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **30.0 m**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **--**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature - Ta (°C) : **32.0**
 Temperature of Stack Gases - Ts (°C) : **42.0**
 Velocity of Stack Gases (m/sec.) : **7.81**
 Flow rate of PM (LPM) : **30.0**
 Flow rate of Gas (LPM) : **--**
 Volumetric Flow (Nm³/Hrs.) : **202.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Particulate Matter	IS: 11255 (Part - 1)	8.2	mg/Nm ³

End of Report

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 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/11	Report No.	JME/ST/240726121
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 24/07/2024 (09:30 to 10:20 Hrs.)
Sampling Location & Code	: Stable Bleaching Powder Stack (Phase 3&4)
Sampling Duration (Minutes)	: 50.0
Stack Attached to	: Stable Bleaching Powder Plant
Make of Stack	: Iron
Diameter of Stack	: 0.1 m
Height of Stack	: 0.1 m
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 30.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: --
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature – Ta (°C)	: 32.0
Temperature of Stack Gases - Ts (°C)	: 42.0
Velocity of Stack Gases (m/sec.)	: 7.81
Flow rate of PM (LPM)	: 28.0
sFlow rate of Gas (LPM)	: 2.2
Volumetric Flow (Nm³/Hrs.)	: 202.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	6.5	mg/Nm³

End of Report

Page No. 1 of 1

Deedar Singh
Deedar Singh
Tested by

Abhishek Tiwari
Abhishek Tiwari
Checked by

Sita Ram Yadav
Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number	JME/GILCD/ST/13	Report No.	JME/ST/240726123
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	02/08/2024
		Analysis Completion Date:	02/08/2024
		Analysis Start Date:	26/07/2024
		Receipt Date	26/07/2024
Sample Description	STACK EMISSION MONITORING		

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 24/07/2024 (14:30 to 15:00 Hrs.)
Sampling Location & Code	: Chlorinated Paraffin Plant Site
Sampling Duration (Minutes)	: 30.0
Stack Attached to	: HCL Water Scrubber Stack
Make of Stack	: Iron
Diameter of Stack	: 0.1 m
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 34.0 m
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: Water Scrubber Stack
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature - Ta (°C)	: 35.0
Temperature of Stack Gases - Ts (°C)	: 45.0
Velocity of Stack Gases (m/sec.)	: 5.7
Flow rate of PM (LPM)	: --
Flow rate of Gas (LPM)	: 2.0
Volumetric Flow (Nm³/Hrs.)	: 146.0
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	6.1	mg/Nm³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/14**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240726124**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **02/08/2024**
Analysis Completion Date: **02/08/2024**
Analysis Start Date: **26/07/2024**
Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **24/07/2024 (16:35 to 17:05 Hrs.)**
Sampling Location & Code : **Chlorinated Paraffin Stack**
Sampling Duration (Minutes) : **30.0**
Stack Attached to : **Chlorinated Paraffin**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **34.0 m**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Alkali Scrubber**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/20**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **34.0**
Temperature of Stack Gases - Ts (°C) : **44.0**
Velocity of Stack Gases (m/sec.) : **6.1**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **157.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	BDL (DL 1.0)	mg/Nm³

End of Report

Page No. 1 of 1

Deep Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/15** Report No. **JME/ST/240726125**
 Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/07/2024 (08:45 to 09:15 Hrs.)**
 Sampling Location & Code : **Calcium Chloride Stack**
 Sampling Duration (Minutes) : **30.0**
 Stack Attached to : **Calcium Chloride Water Scrubber**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Water Scrubber**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **34.0**
 Temperature of Stack Gases - Ts (°C) : **40.0**
 Velocity of Stack Gases (m/sec.) : **8.9**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **239.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	7.0	mg/Nm ³

End of Report

Page No. 1 of 1

Tested by

Checked by

Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/16** Report No. **JME/ST/240726126**
 Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/07/2024 (10:40 to 11:20 Hrs.)**
 Sampling Location & Code : **Caustic Soda Plant-I, Furnace-H Stack**
 Sampling Duration (Minutes) : **40.0**
 Stack Attached to : **Furnace-H Water Scrubber**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m.**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m.**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Water Scrubber**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature - Ta (°C) : **34.0**
 Temperature of Stack Gases - Ts (°C) : **39.0**
 Velocity of Stack Gases (m/sec.) : **8.2**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **214.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	7.2	mg/Nm³

End of Report

Page No. 1 of 1

Deeksh Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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TEST REPORT

Sample Number **JME/GILCD/ST/17**
 Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240726127**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/07/2024 (12:10 to 12:40 Hrs.)**
 Sampling Location & Code : **Caustic Soda Plant-I, Furnace-G Stack**
 Sampling Duration (Minutes) : **30.0**
 Stack Attached to : **Furnace-G Water Scrubber**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m.**
 Height of Stack

(i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m.**

Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Water Scrubber**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **31.0**
 Temperature of Stack Gases – Ts (°C) : **41.0**
 Velocity of Stack Gases (m/sec.) : **8.35**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **217.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	8.4	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,
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 E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,
 Golf Course Ext. Road, Sector-61,
 Gurugram-122011(Haryana)



30 years of success

J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/GILCD/ST/18** Report No. **JME/ST/240726128**
 Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/07/2024 (13:45 to 14:15 Hrs.)**
 Sampling Location & Code : **Caustic Soda Plant-I, Sodium Hypo Chlorine Stack**
 Sampling Duration (Minutes) : **30.0**
 Stack Attached to : **Sodium Hypo Chlorine Alkali Scrubber**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m.**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m.**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Alkali Scrubber**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **32.0**
 Temperature of Stack Gases - Ts (°C) : **40.0**
 Velocity of Stack Gases (m/sec.) : **8.05**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **210.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	6.1	mg/Nm ³

End of Report

Page No. 1 of 1

Deedak Singh
Tested by

Abhishek Tiwari
Checked by

Sita Ram Yadav
Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/GILCD/ST/19** Report No. **JME/ST/240726129**
 Name & Address of Unit **M/s. Grasim Industries Limited** Format No. **7.5 F-03**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/07/2024 (14:45 to 15:15 Hrs.)**
 Sampling Location & Code : **Caustic Soda Plant-II, HCl Furnace-50 TPD Stack**
 Sampling Duration (Minutes) : **30.0**
 Stack Attached to : **HCL Furnace Water Scrubber**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m.**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m.**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Water Scrubber**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **30.0**
 Temperature of Stack Gases - Ts (°C) : **42.0**
 Velocity of Stack Gases (m/sec.) : **8.94**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **231.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	5.7	mg/Nm ³

End of Report

Page No. 1 of 1

Deepak Singh
 Tested by

Abhishek Tiwari
 Checked by

Sita Ram Yadav
 Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number	JME/GILCD/ST/12	Report No.	JME/ST/240406130
Name & Address of Unit	M/s. Grasim Industries Limited Chemical Division Birlagram, Nagda-456331, Madhya Pradesh	Format No.	7.5 F-03
		Party Reference No.	Nil
		Reporting Date	08/04/2024
		Analysis Completion Date:	08/04/2024
		Analysis Start Date:	06/04/2024
		Receipt Date	06/04/2024

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation)	: Mr. Vijay Ajmera (Manager- EHS)
Sample Collected by	: JMELPL Team
Date of Sampling & Time	: 25/07/2024 (08:00 to 08:30 Hrs.)
Sampling Location & Code	: 901-A Water Scrubber
Sampling Duration (Minutes)	: 30.0
Stack Attached to	: Water Scrubber
Make of Stack	: Iron
Diameter of Stack	: 0.1 m.
Height of Stack	
(i) From the Source of Emission	: --
(ii) From Roof Level	: --
(iii) From Ground Level	: 34.0 m.
Operating Schedule (Hrs./day)	: As per Required
Purpose of Monitoring	: Regulatory Requirement
Control Measure if Any	: Alkali Scrubber
Operating Condition at the time of Sampling	: On Load
Type of fuel Used	: --
Meteorological Condition	: Clear Sky
Instrument Code	: JME/SMK/01/20
Instrument Calibration status	: Calibrated
Ambient Temperature - Ta (°C)	: 27.0
Temperature of Stack Gases - Ts (°C)	: --
Velocity of Stack Gases (m/sec.)	: --
Flow rate of PM (LPM)	: --
Flow rate of Gas (LPM)	: 2.0
Volumetric Flow (Nm³/Hrs.)	: --
Sampling Condition	: Isokinetic
Protocol Used	: IS-11255 & CPCB Guidelines
Parameter Required	: As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Hydrochloric Acid	LATS as per CPCB	6.5	mg/Nm³

End of Report

Page No. 1 of 1

Tested by
[Signature]

Checked by
[Signature]
Abhishek Tiwari

Authorized Signatory
[Signature]
Sita Ram Yadav

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Sample Number **JME/GILCD/ST/14**
Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240726124**
Format No. **7.5 F-03**
Party Reference No. **Nil**
Reporting Date **02/08/2024**
Analysis Completion Date: **02/08/2024**
Analysis Start Date: **26/07/2024**
Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
Sample Collected by : **JMELPL Team**
Date of Sampling & Time : **24/07/2024 (16:35 to 17:05 Hrs.)**
Sampling Location & Code : **Chlorinated Paraffin Stack**
Sampling Duration (Minutes) : **30.0**
Stack Attached to : **Alkali Scrubber**
Make of Stack : **Iron**
Diameter of Stack : **0.1 m**
Height of Stack :
(i) From the Source of Emission : **--**
(ii) From Roof Level : **--**
(iii) From Ground Level : **34.0 m**
Operating Schedule (Hrs./day) : **As per Required**
Purpose of Monitoring : **Regulatory Requirement**
Control Measure if Any : **Alkali Scrubber**
Operating Condition at the time of Sampling : **On Load**
Type of fuel Used : **--**
Meteorological Condition : **Clear Sky**
Instrument Code : **JME/SMK/01/20**
Instrument Calibration status : **Calibrated**
Ambient Temperature – Ta (°C) : **34.0**
Temperature of Stack Gases - Ts (°C) : **44.0**
Velocity of Stack Gases (m/sec.) : **6.1**
Flow rate of PM (LPM) : **--**
Flow rate of Gas (LPM) : **2.0**
Volumetric Flow (Nm³/Hrs.) : **157.0**
Sampling Condition : **Isokinetic**
Protocol Used : **IS-11255 & CPCB Guidelines**
Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	BDL (DL 1.0)	mg/Nm ³

End of Report

Page No. 1 of 1

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TEST REPORT

Sample Number **JME/GILCD/ST/20**
 Name & Address of Unit **M/s. Grasim Industries Limited**
Chemical Division
Birlagram, Nagda-456331,
Madhya Pradesh

Report No. **JME/ST/240726131**
 Format No. **7.5 F-03**
 Party Reference No. **Nil**
 Reporting Date **02/08/2024**
 Analysis Completion Date: **02/08/2024**
 Analysis Start Date: **26/07/2024**
 Receipt Date **26/07/2024**

Sample Description **STACK EMISSION MONITORING**

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**
 Sample Collected by : **JMELPL Team**
 Date of Sampling & Time : **25/07/2024 (15:40 to 16:20 Hrs.)**
 Sampling Location & Code : **Caustic Soda Plant-II, Sodium Hypo Chlorine Stack**
 Sampling Duration (Minutes) : **40.0**
 Stack Attached to : **Hypo MC-2 Alkali Scrubber**
 Make of Stack : **Iron**
 Diameter of Stack : **0.1 m.**
 Height of Stack :
 (i) From the Source of Emission : **--**
 (ii) From Roof Level : **--**
 (iii) From Ground Level : **34.0 m.**
 Operating Schedule (Hrs./day) : **As per Required**
 Purpose of Monitoring : **Regulatory Requirement**
 Control Measure if Any : **Alkali Scrubber**
 Operating Condition at the time of Sampling : **On Load**
 Type of fuel Used : **--**
 Meteorological Condition : **Clear Sky**
 Instrument Code : **JME/SMK/01/20**
 Instrument Calibration status : **Calibrated**
 Ambient Temperature – Ta (°C) : **30.0**
 Temperature of Stack Gases - Ts (°C) : **33.0**
 Velocity of Stack Gases (m/sec.) : **7.7**
 Flow rate of PM (LPM) : **--**
 Flow rate of Gas (LPM) : **2.0**
 Volumetric Flow (Nm³/Hrs.) : **205.0**
 Sampling Condition : **Isokinetic**
 Protocol Used : **IS-11255 & CPCB Guidelines**
 Parameter Required : **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Chlorine	LATS as per CPCB	6.3	mg/Nm ³

End of Report

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कार्यालय कार्यपालन यंत्री, जल संसाधन संभाग, उज्जैन
पत्र क्र. 3634 / राजस्व / 2011-12 /

उज्जैन दिनांक 7/9/11

प्रति,

प्रबंधक,
ग्रेसिम उद्योग
नागदा।

विषय - अनुबंध 30 वर्षों के लिये मान्य करने बाबत।

संदर्भ - इस कार्यालय का पत्र क्रमांक 3821 / राजस्व / ग्रेसिम / 06 /
दिनांक 31-08-2006।

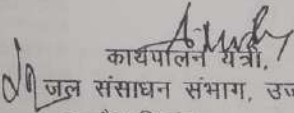
~~~~~

संदर्भित पत्र द्वारा औद्योगिक कार्य में उपयोग आने वाले जल का अनुबंध दिनांक 01-06-2006 से प्रथम बार दिनांक 31-05-2007 तक किया था, जो कि शासन के आदेशानुसार दिनांक 01-06-2006 से आगामी 30 वर्षों के लिये मान्य है। अनुबंध का भी अवलोकन करें, जिसमें 30 वर्ष के अनुबंध का प्रावधान है।

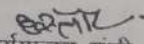
शासन द्वारा समय-समय पर जो भी जल दर निर्धारित / पुनर्निर्धारित की जावेगी उसी के अनुरूप भुगतान बंधनकारी होगा।

सहपत्र :- शून्य

पृ. पत्र क्र. / राजस्व / 11 /  
प्रतिलिपि:-

  
कार्यपालन यंत्री,  
जल संसाधन संभाग, उज्जैन  
उज्जैन दिनांक

- (1) अधीक्षण यंत्री, जल संसाधन मण्डल उज्जैन।
- (1) अनुविभागीय अधिकारी जल संसाधन उपखण्ड खाचरोद की ओर सूचनार्थ प्रेषित।

  
कार्यपालन यंत्री,  
जल संसाधन संभाग, उज्जैन

Copy of the letter is sent to the Officer on 22/11/11  
733



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

Copy of  
agreement  
as decided. 4/7/11

This agreement made on this day **01.04.2011** between the Governor of Madhya Pradesh acting through **Executive Engineer** 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 **Grasim Industries Ltd.** A company registered under the Indian Companies Act 1955 (No. 1 of 1956) and having its registered office at **Birlagram, Nagda** (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 Ujjain** (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.

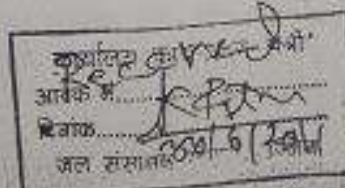
And whereas prior to the execution of these presents, the company has deposited with the Government, the sum of **Rs 37.50 Lakhs (Rs Thirty seven lakh Fifty Thousand Only)** being the water rates for the quantity of water to be drawn by the company in three months.

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.

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




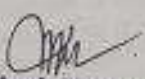
मानव संसाधन विभाग  
उज्जैन  
(M.P.)

- (2) The company shall pay to the government water rates for water drawn 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 paise 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.
- (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  
Grasim Industries Limited  
Bhilai - 456331 (M.P.)

  
Dr. Prakash Maheshwari  
Group Executive President  
Grasim Industries Limited  
Bhilai - 456331 (M.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 within three months from the date of the bill for water supplied. Non payment of

  
  
**Dr. Prakash Maheshwari**  
Group Executive President  
Grasim Industries Limited  
Bilaspur - 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 prejudice 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 the company.
- (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 deem fit.

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

(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 be 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**


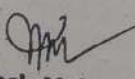
(22.1) Company shall draw water from the four dams constructed by the company across non perennial river Chambal and the reservoir at village Takrawada. The source of water shall termed as " Self Constructed water source" in view of water resources Department memo no. 18/1/91/m/31/400 dated 14.02.2006 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.

(22.4) The quantity of water drawn shall be measured at intake well of the company.

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

  
  
**Dr. Prakash Maheshwari**  
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 implementation agreement, the company may also assign any of its rights hereunder to the extent such assignment is made to the lenders subject to the terms 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 on any occasion to insist upon the performance 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 constitute a waiver of such breach or acceptance of any variations.

(25) IN WITNESS WHEREOF 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.

SIGNED

SEALED

DELIVERED

(by Executive Engineer, Water resource division, UJJAIN For and on behalf of Governor of Madhya Pradesh in presence of)

1. ....

2. ....


(THE COMMON SEAL OF ..... was pursuant to the resolution of the board of the directors of the company dated the ..... and ..... Directors of the company who in token thereof have hereto set their respective hand in presence of).



Witness signature

  
**Dr. Prakash Maheshwari**  
Group Executive President  
Grasim Industries Limited  
Bilaspur - 456331 (M.P.)

1.

2.  (Rajesh Sharma)

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

मध्य प्रदेश सरकार  
ग्रुप एग्जीक्यूटिव प्रेसिडेंट  
ग्रैसिम इंडस्ट्रीज लिमिटेड  
(B.P.) 456331 - बिलासपुर



### Fresh water Consumption in KL 2024-25

| S.No | Month     | Manufacturing Process | Cooling +Boiling | Domestic | Total | Average-KLD |
|------|-----------|-----------------------|------------------|----------|-------|-------------|
| 1    | April     | 45243                 | 47970            | 2120     | 95333 | 3178        |
| 2    | May       | 50697                 | 46220            | 2108     | 99025 | 3194        |
| 3    | June      | 45142                 | 48036            | 1890     | 95068 | 3169        |
| 4    | July      | 41700                 | 40802            | 2325     | 84827 | 2736        |
| 5    | August    | 41694                 | 40795            | 2230     | 84719 | 2733        |
| 6    | September | 39810                 | 38374            | 2200     | 80384 | 2679        |

### Fresh water Consumption in KL 2023-24

| S.No | Month     | Manufacturing Process | Cooling +Boiling | Domestic | Total | Average-KLD |
|------|-----------|-----------------------|------------------|----------|-------|-------------|
| 1    | April     | 42075                 | 40200            | 2370     | 84645 | 2822        |
| 2    | May       | 42146                 | 40200            | 2604     | 84950 | 2832        |
| 3    | June      | 40350                 | 39700            | 2490     | 82540 | 2751        |
| 4    | July      | 39663                 | 39500            | 2449     | 81612 | 2720        |
| 5    | August    | 37750                 | 37694            | 2325     | 77769 | 2592        |
| 6    | September | 33189                 | 34310            | 2160     | 69659 | 2322        |
| 7    | October   | 44934                 | 44700            | 2068     | 91702 | 3057        |
| 8    | November  | 39499                 | 39109            | 2190     | 80798 | 2693        |
| 9    | December  | 37007                 | 36985            | 2294     | 76286 | 2543        |
| 10   | January   | 37398                 | 37145            | 2325     | 76868 | 2562        |
| 11   | February  | 37008                 | 36950            | 2349     | 76307 | 2544        |
| 12   | March     | 42300                 | 41862            | 2480     | 86642 | 2888        |

### Fresh water Consumption in KL 2022-23

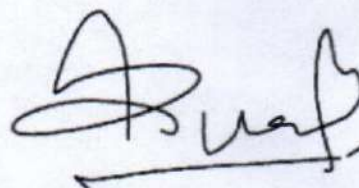
| S.No | Month     | Manufacturing Process | Cooling +Boiling | Domestic | Total  | Average-KLD |
|------|-----------|-----------------------|------------------|----------|--------|-------------|
| 1    | April     | 45200                 | 50635            | 2370     | 98205  | 3274        |
| 2    | May       | 46686                 | 48219            | 2604     | 971509 | 3250        |
| 3    | June      | 43297                 | 48903            | 2430     | 94630  | 3154        |
| 4    | July      | 43000                 | 45190            | 2356     | 90546  | 3018        |
| 5    | August    | 38637                 | 39001            | 2232     | 79870  | 2662        |
| 6    | September | 38330                 | 38995            | 2490     | 79815  | 2661        |
| 7    | October   | 39305                 | 39741            | 2356     | 81402  | 2713        |
| 8    | November  | 35580                 | 35999            | 2370     | 73949  | 2465        |
| 9    | December  | 35180                 | 35599            | 2604     | 73383  | 2446        |
| 10   | January   | 33713                 | 34025            | 2387     | 70125  | 2338        |
| 11   | February  | 33246                 | 32104            | 2408     | 67758  | 2259        |
| 12   | March     | 33745                 | 33300            | 2511     | 69556  | 2319        |

**Monthly Average Fresh water Consumption in KLD – FY 2022-24 (Till  
September 2024)**

| <b>S.No</b> | <b>Month</b> | <b>FY-2022-23</b> | <b>FY-2023-24</b> | <b>FY-2024-25</b> |
|-------------|--------------|-------------------|-------------------|-------------------|
| 1           | April        | 3274              | 2822              | 3178              |
| 2           | May          | 3250              | 2832              | 3194              |
| 3           | June         | 3154              | 2751              | 3169              |
| 4           | July         | 3018              | 2720              | 2736              |
| 5           | August       | 2662              | 2592              | 2733              |
| 6           | September    | 2661              | 2322              | 2679              |
| 7           | October      | 2713              | 3057              |                   |
| 8           | November     | 2465              | 2693              |                   |
| 9           | December     | 2446              | 2543              |                   |
| 10          | January      | 2338              | 2562              |                   |
| 11          | February     | 2259              | 2544              |                   |
| 12          | March        | 2319              | 2888              |                   |

**FORM 32**  
**Certificate of Fitness for Dangerous Operations**  
(Prescribed under Rule 107)  
Counterfoil

1. Serial Number 9928268
2. Name of person examined Narayan
3. Father's name Ramlal
4. Sex Male
5. Address \_\_\_\_\_
6. Name of the factory in which employed/in which wishes to be employed-  
- Grasim Industries Ltd. Chemical division, Birlagram, Nagda
7. Process of department in which employed/wishes to be employed  
Canteen
8. Whether certificate granted Yes
9. Whether declared unfit and certificate refused Fit
10. Reference number of previous certificate granted or refused "NA"



**Dr Kunal Sharma**  
**Regd M.P 25072**  
**MBBS, AFIH**  
**Uno.care**

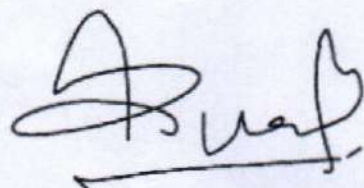
.....  
Signature of L.T.I. of  
Person examined

.....  
Signature of  
Certifying Surgeon



**FORM 32**  
**Certificate of Fitness for Dangerous Operations**  
(Prescribed under Rule 107)  
Counterfoil

1. Serial Number 004025
2. Name of person examined Sukhvinder Burmi
3. Father's name Harbans Singh Burmi
4. Sex Male
5. Address \_\_\_\_\_
6. Name of the factory in which employed/in which wishes to be employed-  
- Grasim Industries Ltd. Chemical division, Birlagram, Nagda
7. Process of department in which employed/wishes to be employed  
Cl2 Filling
8. Whether certificate granted Yes
9. Whether declared unfit and certificate refused Fit
10. Reference number of previous certificate granted or refused "NA"



**Dr Kunal Sharma**  
**Regd M.P 25072**  
**MBBS, AFIH**  
**Uno.care**

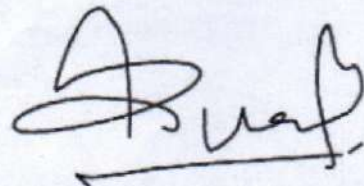
.....  
Signature of L.T.I. of  
Person examined

.....  
Signature of  
Certifying Surgeon



**FORM 32**  
**Certificate of Fitness for Dangerous Operations**  
(Prescribed under Rule 107)  
Counterfoil

1. Serial Number 1815387211
2. Name of person examined Sunil
3. Father's name Nirbhay Singh
4. Sex Male
5. Address \_\_\_\_\_
6. Name of the factory in which employed/in which wishes to be employed-  
- Grasim Industries Ltd. Chemical division, Birlagram, Nagda
7. Process of department in which employed/wishes to be employed  
Salt
8. Whether certificate granted Yes
9. Whether declared unfit and certificate refused Fit
10. Reference number of previous certificate granted or refused "NA"



**Dr Kunal Sharma**  
**Regd M.P 25072**  
**MBBS, AFIH**  
**Uno.care**

.....  
Signature of L.T.I. of  
Person examined

.....  
Signature of  
Certifying Surgeon





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)

**CC:** 1. Divisional Forest Officer, General Forest Division, Ujjain, Madhya Pradesh  
2. Grasim Chemical Division, Nagda, MP

Grasim Industries Limited  
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.)

|                                                                                                                                       |  |                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|
| <b>HDFC BANK</b>                                                                                                                      |  | A/C Payee                                                             |  |
| HDFC BANK LTD., GROUND FLOOR, JEHANGIR BUILDING, M G ROAD, FORT, MUMBAI, MUMBAI-400001, MAHARASHTRA<br>RTGS / NEFT IFSC : HDFC0000060 |  | 2 7 1 2 2 0 2 2<br>D D M M Y Y Y Y<br>Valid for 3 months only         |  |
| Pay <b>M.P. TIGER FOUNDATION SOCIETY 10571048460</b>                                                                                  |  | By Order                                                              |  |
| Rupees रुपये <b>TWENTY FOUR LAKH TWENTY THOUSAND ONLY</b>                                                                             |  | आदेश अनुसार                                                           |  |
| A/c No. 00600110000444<br>Bkn: 0060 Pdt: 011<br>C/A                                                                                   |  | अदा करें ***2,420,000.00*                                             |  |
| Payable at par through clearing transfer at all branches of HDFC BANK LTD.                                                            |  | For GRASIM INDS LTD STAPLE FIBRE DIVN, NAGDA                          |  |
|                                                                                                                                       |  |                                                                       |  |
|                                                                                                                                       |  | Authorised Signatories<br>Please sign above/कृपया नीचे हस्ताक्षर करें |  |

⑈772427⑈ 400240015⑈ 901138⑈ 30





30 years of success

# J.M. ENVIROLAB PVT. LTD.

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/FD/01  
Name & Address of Unit: M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh

Report No.: JME/FD/240427021  
Format No.: 7.6 F-02  
Party Ref. No.: Nil  
Reporting Date: 29/04/2024  
Analysis Completion Date: 29/04/2024  
Analysis Start Date: 27/04/2024  
Receipt Date: 27/04/2024

Sample Description: FUGITIVE DUST EMISSION

### General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
Sample Collected by : JMELPL Team  
Sampling Location : Membrane Caustic Soda Plant- 1 (Near HCL Plant)  
Latitude : 23° 26' 25.1" N  
Longitude : 75° 24' 33.7" E  
Instrument Used : High Volume Sampler  
Instrument Code : JME/HVS/01/01  
Instrument Calibration Status : Calibrated  
Meteorological Condition During Monitoring : Clear Sky  
Date of Monitoring : 23/04/2024 to 23/04/2024  
Time of Monitoring : 13:20 to 17:20 Hrs.  
Actual Duration of Monitoring, (minutes) : 240.0  
Ambient Temperature (°C) : Max 37°C, Min 30°C  
Surrounding Activity : Plant Operation & Vehicular Activities  
Control Measure if Any : --  
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
Parameter Required : As per work order

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 176.0  | µg/m <sup>3</sup> |

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

Deepak Singh  
Tested by

Abhishek Tiwari  
Checked by

Sita Ram Yadav  
Authorized Signatory

- Note:
- This test report has been at your request and test results pertain to the tested sample received.
  - This reports is for your reference only and not to be used for any legal purpose.
  - Any discrepancy in the test report or any remarks regarding the test results shall be brought to our knowledge within 7 days of the issue of this report.
  - Total liability or any claim in case of dispute is limited to the invoice raised by the laboratory.
  - The sample will be destroyed after retention time unless otherwise specified specially.
  - Endorsement of the product tested by the laboratory is neither inferred nor implied.
  - Report shall not be reproduce except in full without approval of the laboratory.
  - All disputes are subject to exclusive jurisdiction of Jaipur court only.

Reg. Office & Lab.  
424, Ground Floor, Udyog Vihar,  
Phase-IV, Gurugram-122015 (Haryana)  
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org  
Corporate Office  
Emaar Digital Greens, Tower-B, Unit No.1517,  
Golf Course Ext. Road, Sector-61,  
Gurugram-122011(Haryana)



30 years of success

J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/FD/02  
Name & Address of Unit  
M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh

Report No.: JME/FD/240427022  
Format No.: 7.5 F-02  
Party Ref. No.: Nil  
Reporting Date: 29/04/2024  
Analysis Completion Date: 29/04/2024  
Analysis Start Date: 27/04/2024  
Receipt Date: 27/04/2024

Sample Description: FUGITIVE DUST EMISSION

### General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
Sample Collected by : JME/LPL Team  
Sampling Location : Membrane Caustic Soda Plant- 2  
Latitude : 23° 26' 15.9" N  
Longitude : 75° 24' 34.4" E  
Instrument Used : High Volume Sampler  
Instrument Code : JME/HVS/01/02  
Instrument Calibration Status : Calibrated  
Meteorological Condition During Monitoring : Clear Sky  
Date of Monitoring : 23/04/2024 to 23/04/2024  
Time of Monitoring : 08:30 to 12:30 Hrs.  
Actual Duration of Monitoring, (minutes) : 240.0  
Ambient Temperature (°C) : Max 37°C, Min 29°C  
Surrounding Activity : Plant Operation & Vehicular Activities  
Control Measure if Any : --  
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
Parameter Required : As per work order

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 197.0  | µg/m <sup>3</sup> |

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

Deepak Singh  
Tested by

Abhishek Tiwari  
Checked by

Shri Ram Yadav  
Authorized Signatory

#### Note:

1. This test report has been at your request and test results pertain to the tested sample received.
2. This reports is for your reference only and not to be used for any legal purpose.
3. Any discrepancy in the test report or any remarks regarding the test results shall be brought to our knowledge within 7 days of the issue of this report.
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#### Reg. Office & Lab.

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# J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: **JME/GILCD/FD/03**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh**

Report No.: **JME/FD/240427023**  
Format No.: **7.6 F-02**  
Party Ref. No.: **Nil**  
Reporting Date: **29/04/2024**  
Analysis Completion Date: **29/04/2024**  
Analysis Start Date: **27/04/2024**  
Receipt Date: **27/04/2024**

Sample Description: **FUGITIVE DUST EMISSION**

### General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**  
Sample Collected by : **JMELPL Team**  
Sampling Location : **ZLD Area (Near ETP)**  
Latitude : **23°26' 31.0" N**  
Longitude : **75°24' 34.0" E**  
Instrument Used : **High Volume Sampler**  
Instrument Code : **JME/HVS/01/01**  
Instrument Calibration Status : **Calibrated**  
Meteorological Condition During Monitoring : **Clear Sky**  
Date of Monitoring : **24/04/2024 to 24/04/2024**  
Time of Monitoring : **08:50 to 12:50 Hrs.**  
Actual Duration of Monitoring, (minutes) : **240.0**  
Ambient Temperature (°C) : **Max 36°C, Min 29°C**  
Surrounding Activity : **Plant Operation & Vehicular Activities**  
Control Measure if Any : **--**  
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**  
Parameter Required : **As per work order**

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 189.0  | µg/m <sup>3</sup> |

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

Deepak Singh

Tested by

Abhishek Tiwari

Checked by

Sita Ram Yadav

Authorized Signatory

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# J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: **JME/GILCD/FD/04**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh**

Report No.: **JME/FD/240427024**  
Format No.: **7.5 F-02**  
Party Ref. No.: **Nil**  
Reporting Date: **29/04/2024**  
Analysis Completion Date: **29/04/2024**  
Analysis Start Date: **27/04/2024**  
Receipt Date: **27/04/2024**

Sample Description: **FUGITIVE DUST EMISSION**

### General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**  
Sample Collected by : **JMELPL Team**  
Sampling Location : **Calcium Chloride Plant (Near Control Room)**  
Latitude : **23° 26' 14.3" N**  
Longitude : **75° 24' 42.8" E**  
Instrument Used : **High Volume Sampler**  
Instrument Code : **JME/HVS/01/02**  
Instrument Calibration Status : **Calibrated**  
Meteorological Condition During Monitoring : **Clear Sky**  
Date of Monitoring : **24/04/2024 to 24/04/2024**  
Time of Monitoring : **13:35 to 17:35 Hrs.**  
Actual Duration of Monitoring, (minutes) : **240.0**  
Ambient Temperature (°C) : **Max 37°C, Min 31°C**  
Surrounding Activity : **Plant Operation & Vehicular Activities**  
Control Measure if Any : **--**  
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**  
Parameter Required : **As per work order**

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS-5182 (Part-4) | 195.0  | µg/m <sup>3</sup> |

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

**Deepak Singh**  
**Tested by**

**Abhishek Tiwari**  
**Checked by**

**Sita Ram Yadav**  
**Authorized Signatory**

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# J.M. ENVIROLAB PVT. LTD.

CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: **JME/GILCD/FD/05**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh**

Report No.: **JME/FD/240427025**  
Format No.: **7.5 F-02**  
Party Ref. No.: **Nil**  
Reporting Date: **29/04/2024**  
Analysis Completion Date: **29/04/2024**  
Analysis Start Date: **27/04/2024**  
Receipt Date: **27/04/2024**

Sample Description: **FUGITIVE DUST EMISSION**

### General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**  
Sample Collected by : **JMELPL Team**  
Sampling Location : **Stable Bleaching Powder Plant (Near Cooling Tower)**  
Latitude : **23° 26' 14.8" N**  
Longitude : **75° 24' 38.2" E**  
Instrument Used : **High Volume Sampler**  
Instrument Code : **JME/HVS/01/01**  
Instrument Calibration Status : **Calibrated**  
Meteorological Condition During Monitoring : **Clear Sky**  
Date of Monitoring : **25/04/2024 to 25/04/2024**  
Time of Monitoring : **08:40 to 12:40 Hrs.**  
Actual Duration of Monitoring, (minutes) : **240.0**  
Ambient Temperature (°C) : **Max 36°C, Min 29°C**  
Surrounding Activity : **Plant Operation & Loading, Unloading Activities**  
Control Measure if Any : **--**  
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**  
Parameter Required : **As per work order**

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 184.0  | µg/m <sup>3</sup> |

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

Deedar Singh

Tested by

Abhishek Tiwari

Checked by

Sita Ram Yadav  
Authorized Signatory

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# J.M. ENVIROLAB Pvt. Ltd.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/A/06  
Name & Address of Unit: M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh

Report No.: JME/FD/240427026  
Format No.: 7.5 F-02  
Party Ref. No: Nil  
Reporting Date: 29/04/2024  
Analysis Completion Date: 29/04/2024  
Analysis Start Date: 27/04/2024  
Receipt Date: 27/04/2024

Sample Description: FUGITIVE DUST EMISSION

### General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
Sample Collected by : JME/LPL Team  
Sampling Location : Poly Aluminums Chloride (PAC Plant)  
Latitude : 23° 26' 18.7" N  
Longitude : 75° 24' 31.4" E  
Instrument Used : High Volume Sampler  
Instrument Code : JME/HVS/01/02  
Instrument Calibration Status : Calibrated  
Meteorological Condition During Monitoring : Clear Sky  
Date of Monitoring : 26/04/2024 to 26/04/2024  
Time of Monitoring : 09:25 to 13:25 Hrs.  
Actual Duration of Monitoring, (minutes) : 240.0  
Ambient Temperature (°C) : Max 38°C, Min 30°C  
Surrounding Activity : Plant Operation & Loading Unloading Activities  
Control Measure if Any : --  
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
Parameter Required : As per work order

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 203.0  | µg/m <sup>3</sup> |

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

Deepak Singh  
Tested by

Abhishek Tiwari  
Checked by

Sita Ram Yadav  
Authorized Signatory

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# J.M. ENVIROLAB PVT. LTD.

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## TEST REPORT

|                        |                                                                                                   |                           |                  |
|------------------------|---------------------------------------------------------------------------------------------------|---------------------------|------------------|
| Sample Number:         | JME/GILCD/FD/01                                                                                   | Report No.:               | JME/FD/240725011 |
| Name & Address of Unit | M/s. Grasim Industries Limited<br>Chemical Division<br>Birlagram, Nagda- 456331<br>Madhya Pradesh | Format No.:               | 7.5 F-02         |
|                        |                                                                                                   | Party Ref. No.            | Nil              |
|                        |                                                                                                   | Reporting Date:           | 27/07/2024       |
|                        |                                                                                                   | Analysis Completion Date: | 27/07/2024       |
|                        |                                                                                                   | Analysis Start Date:      | 25/07/2024       |
| Sample Description:    | FUGITIVE DUST EMISSION                                                                            | Receipt Date:             | 25/07/2024       |

### General Information

|                                            |                                                   |
|--------------------------------------------|---------------------------------------------------|
| Client Representative (Name & Designation) | : Mr. Vijay Ajmera (Manager- EHS)                 |
| Sample Collected by                        | : JME/LPL Team                                    |
| Sampling Location                          | : Membrane Caustic Soda Plant- 1 (Near HCL Plant) |
| Latitude                                   | : 23° 26' 25.1" N                                 |
| Longitude                                  | : 75° 24' 33.7" E                                 |
| Instrument Used                            | : High Volume Sampler                             |
| Instrument Code                            | : JME/HVS/01/01                                   |
| Instrument Calibration Status              | : Calibrated                                      |
| Meteorological Condition During Monitoring | : Clear Sky                                       |
| Date of Monitoring                         | : 22/07/2024 to 22/07/2024                        |
| Time of Monitoring                         | : 13:40 to 17:40 Hrs.                             |
| Actual Duration of Monitoring, (minutes)   | : 240.0                                           |
| Ambient Temperature (°C)                   | : Max 29°C, Min 26°C                              |
| Surrounding Activity                       | : Human & Vehicular Activities                    |
| Control Measure if Any                     | : --                                              |
| Sampling & Analysis Protocol               | : IS-5182 & CPCB Guidelines                       |
| Parameter Required                         | : As per work order                               |

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 139.0  | µg/m <sup>3</sup> |

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

  
Deepak Singh  
Tested by

  
Abhishek Tiwari  
Checked by

  
Sita Ram Yadav  
Authorized Signatory

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Approved from MoEF&amp;CC &amp; Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/FD/02  
 Name & Address of Unit: M/s. Grasim Industries Limited  
 Chemical Division  
 Birlagram, Nagda- 456331  
 Madhya Pradesh

Report No.: JME/FD/240725012  
 Format No.: 7.5 F-02  
 Party Ref. No.: Nil  
 Reporting Date: 27/07/2024  
 Analysis Completion Date: 27/07/2024  
 Analysis Start Date: 25/07/2024  
 Receipt Date: 25/07/2024

Sample Description: FUGITIVE DUST EMISSION

## General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
 Sample Collected by : JME/LPL Team  
 Sampling Location : Membrane Caustic Soda Plant- 2  
 Latitude : 23° 26' 15.9" N  
 Longitude : 75° 24' 34.4" E  
 Instrument Used : High Volume Sampler  
 Instrument Code : JME/HVS/01/02  
 Instrument Calibration Status : Calibrated  
 Meteorological Condition During Monitoring : Clear Sky  
 Date of Monitoring : 22/07/2024 to 22/07/2024  
 Time of Monitoring : 08:50 to 12:50 Hrs.  
 Actual Duration of Monitoring, (minutes) : 240.0  
 Ambient Temperature (°C) : Max 28°C, Min 26°C  
 Surrounding Activity : Human & Vehicular Activities  
 Control Measure if Any : --  
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
 Parameter Required : As per work order

## TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 140.0  | µg/m <sup>3</sup> |

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

Deepak Singh  
 Tested by

Abhishek Tiwari  
 Checked by

Smt. Rani Yadav  
 Authorized Signatory

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30 years of success

Approved from MoEF&amp;CC &amp; Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/FD/03  
 Name & Address of Unit: M/s. Grasim Industries Limited  
 Chemical Division  
 Birlagram, Nagda- 456331  
 Madhya Pradesh

Report No.: JME/FD/240725013  
 Format No.: 7.5 F-02  
 Party Ref. No.: Nil  
 Reporting Date: 27/07/2024  
 Analysis Completion Date: 27/07/2024  
 Analysis Start Date: 25/07/2024  
 Receipt Date: 25/07/2024

Sample Description: FUGITIVE DUST EMISSION

### General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
 Sample Collected by : JME/LPL Team  
 Sampling Location : ZLD Area (Near ETP)  
 Latitude : 23°26' 31.0" N  
 Longitude : 75°24' 34.0" E  
 Instrument Used : High Volume Sampler  
 Instrument Code : JME/HVS/01/01  
 Instrument Calibration Status : Calibrated  
 Meteorological Condition During Monitoring : Clear Sky  
 Date of Monitoring : 23/07/2024 to 23/07/2024  
 Time of Monitoring : 09:10 to 13:10 Hrs.  
 Actual Duration of Monitoring, (minutes) : 240.0  
 Ambient Temperature (°C) : Max 32°C, Min 27°C  
 Surrounding Activity : Plant Operation & Vehicular Activities  
 Control Measure if Any : --  
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
 Parameter Required : As per work order

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 165.0  | µg/m <sup>3</sup> |

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

Deepak Singh  
 Tested by

Abhishek Tiwari  
 Checked by

Sita Ram Yadav  
 Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/FD/04  
Name & Address of Unit: M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh

Report No.: JME/FD/240725014  
Format No.: 7.5 F-02  
Party Ref. No.: Nil  
Reporting Date: 27/07/2024  
Analysis Completion Date: 27/07/2024  
Analysis Start Date: 25/07/2024  
Receipt Date: 25/07/2024

Sample Description: FUGITIVE DUST EMISSION

### General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
Sample Collected by : JMELPL Team  
Sampling Location : Calcium Chloride Plant (Near Control Room)  
Latitude : 23° 26' 14.3" N  
Longitude : 75° 24' 42.8" E  
Instrument Used : High Volume Sampler  
Instrument Code : JME/HVS/01/02  
Instrument Calibration Status : Calibrated  
Meteorological Condition During Monitoring : Clear Sky  
Date of Monitoring : 23/07/2024 to 23/07/2024  
Time of Monitoring : 13:45 to 17:45 Hrs.  
Actual Duration of Monitoring. (minutes) : 240.0  
Ambient Temperature (°C) : Max 31°C, Min 27°C  
Surrounding Activity : Plant Operation & Vehicular Activities  
Control Measure if Any : --  
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
Parameter Required : As per work order

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 166.9  | µg/m <sup>3</sup> |

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

Deebak Singh  
Tested by

Abhishek Tiwari  
Checked by

Sita Ram Yadav  
Authorized Signatory

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30 years of success

# J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: **JME/GILCD/FD/05**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda- 456331  
Madhya Pradesh**

Report No.: **JME/FD/240725015**  
Format No.: **7.5 F-02**  
Party Ref. No.: **Nil**  
Reporting Date: **27/07/2024**  
Analysis Completion Date: **27/07/2024**  
Analysis Start Date: **25/07/2024**  
Receipt Date: **25/07/2024**

Sample Description: **FUGITIVE DUST EMISSION**

### General Information

Client Representative (Name & Designation) : **Mr. Vijay Ajmera (Manager- EHS)**  
Sample Collected by : **JMELPL Team**  
Sampling Location : **Stable Bleaching Powder Plant (Near Cooling Tower)**  
Latitude : **23° 26' 14.8" N**  
Longitude : **75° 24' 38.2" E**  
Instrument Used : **High Volume Sampler**  
Instrument Code : **JME/HVS/01/01**  
Instrument Calibration Status : **Calibrated**  
Meteorological Condition During Monitoring : **Scattered Clouds**  
Date of Monitoring : **24/07/2024 to 24/07/2024**  
Time of Monitoring : **08:50 to 12:50 Hrs.**  
Actual Duration of Monitoring, (minutes) : **240.0**  
Ambient Temperature (°C) : **Max 32°C, Min 28°C**  
Surrounding Activity : **Plant Operation & Loading, Unloading Activities**  
Control Measure if Any : **--**  
Sampling & Analysis Protocol : **IS-5182 & CPCB Guidelines**  
Parameter Required : **As per work order**

### TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 172.0  | µg/m <sup>3</sup> |

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

**Deshak Singh**  
Tested by

**Abhishek Tiwari**  
Checked by

**Sita Ram Yadav**  
Authorized Signatory

#### Note:

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J.M. ENVIROLAB PVT. LTD.

Approved from MoEF&amp;CC &amp; Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/A/06  
 Name & Address of Unit: M/s. Grasim Industries Limited  
 Chemical Division  
 Birlagram, Nagda- 456331  
 Madhya Pradesh

Report No.: JME/FD/240725016  
 Format No.: 7.5 F-02  
 Party Ref. No.: Nil  
 Reporting Date: 27/07/2024  
 Analysis Completion Date: 27/07/2024  
 Analysis Start Date: 25/07/2024  
 Receipt Date: 25/07/2024

Sample Description: FUGITIVE DUST EMISSION

## General Information

Client Representative (Name & Designation) : Mr. Vijay Ajmera (Manager- EHS)  
 Sample Collected by : JME/LPL Team  
 Sampling Location : Poly Aluminums Chloride (PAC Plant)  
 Latitude : 23° 26' 18.7" N  
 Longitude : 75° 24' 31.4" E  
 Instrument Used : High Volume Sampler  
 Instrument Code : JME/HVS/01/02  
 Instrument Calibration Status : Calibrated  
 Meteorological Condition During Monitoring : Scattered Clouds  
 Date of Monitoring : 24/07/2024 to 24/07/2024  
 Time of Monitoring : 09:05 to 13:05 Hrs.  
 Actual Duration of Monitoring, (minutes) : 240.0  
 Ambient Temperature (°C) : Max 31°C, Min 29°C  
 Surrounding Activity : Plant Operation & Loading Unloading Activities  
 Control Measure if Any : --  
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines  
 Parameter Required : As per work order

## TEST RESULTS

| S. No. | Parameters | Testing Protocol | Result | Unit              |
|--------|------------|------------------|--------|-------------------|
| 1.     | SPM        | IS:5182 (Part-4) | 180.0  | µg/m <sup>3</sup> |

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

Deenak Singh  
 Tested by

Abhishek Thwari  
 Checked by

Sita Ram Yadav  
 Authorized Signatory

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CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

|                        |                                                                                                             |                          |                         |
|------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sample Number:         | <b>JME/GILCD/AN/01</b>                                                                                      | Report No.:              | <b>JME/AN/240429011</b> |
| Name & Address of Unit | <b>M/s. Grasim Industries Limited<br/>Chemical Division<br/>Birlagram, Nagda-456331,<br/>Madhya Pradesh</b> | Format No.:              | <b>7.5 F-04</b>         |
|                        |                                                                                                             | Party Ref. No.           | <b>Nil</b>              |
|                        |                                                                                                             | Reporting Date:          | <b>01/05/2024</b>       |
|                        |                                                                                                             | Analysis Completion Date | <b>01/05/2024</b>       |
|                        |                                                                                                             | Analysis Start Date      | <b>29/04/2024</b>       |
| Sample Description:    | <b>AMBIENT NOISE LEVEL MONITORING</b>                                                                       | Receipt Date:            | <b>29/04/2024</b>       |

### General Information

|                                            |                                   |
|--------------------------------------------|-----------------------------------|
| Client Representative (Name & Designation) | : Mr. Vijay Ajmera (Manager- EHS) |
| Sample collected by                        | : JMELPL Team                     |
| Sampling Location                          | : ZLD (Near RO Plant)             |
| Latitude                                   | : 23°26' 31.0" N                  |
| Longitude                                  | : 75°24' 34.0" E                  |
| Instrument used                            | : Sound Level Meter               |
| Instrument code                            | : JME/SLM/01/17                   |
| Instrument calibration status              | : Calibrated                      |
| Meteorological condition during monitoring | : Clear Sky                       |
| Date of Monitoring                         | : 23/04/2024 to 24/04/2024        |
| Time of Monitoring                         | : 06:00 to 06:00 Hrs.             |
| Actual duration of Monitoring, (minutes)   | : 24 Hrs.                         |
| Ambient Temperature (°C)                   | : Max 36°C, Min 22°C              |
| Surrounding activity                       | : Human & Vehicular Activities    |
| Sampling & Analysis Protocol               | : IS-9989                         |
| Parameter Required                         | : As per work order               |

### TEST RESULTS

| S. No. | Parameters                                    | Testing Protocol          | Test Results dB (A)                |                                      | Unit  |
|--------|-----------------------------------------------|---------------------------|------------------------------------|--------------------------------------|-------|
|        |                                               |                           | Day Time<br>(06:00 AM to 10:00 PM) | Night Time<br>(10:00 PM to 06:00 AM) |       |
| 1.     | Lmax                                          | CPCB Guidelines / IS-9989 | 69.8                               | 64.4                                 | dB(A) |
| 2.     | Lmin                                          | CPCB Guidelines / IS-9989 | 57.3                               | 53.3                                 | dB(A) |
| 3.     | Leq                                           | CPCB Guidelines / IS-9989 | 63.7                               | 58.5                                 | dB(A) |
| 4.     | CPCB Limits in dB(A) Leq<br>(Industrial area) | --                        | 75.0                               | 70.0                                 | dB(A) |

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

  
Deepak Singh  
Tested by

  
Sita Ram Yadav  
Checked by

  
Raj Kumar Yadav  
Authorized Signatory

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## TEST REPORT

Sample Number: **JME/GILCD/WN/02**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda-456331,  
Madhya Pradesh**

Report No.: **JME/WN/240429012**  
Format No.: **7.5 F-04**  
Party Ref. No.: **Nil**  
Reporting Date: **01/05/2024**  
Analysis Completion Date: **01/05/2024**  
Analysis Start Date: **29/04/2024**  
Receipt Date: **29/04/2024**

Sample Description: **WORK PLACE NOISE LEVEL MONITORING**

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Membrane Caustic Soda Plant – 1**  
**23/04/2024 to 24/04/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/16**  
**Calibrated**  
**Clear Sky**  
**Regulatory Requirement**  
**--**  
**IS-9989**  
**As per work order**

### TEST RESULTS

| S. No. | Location                        | Test Results |           | Unit  | Protocol |
|--------|---------------------------------|--------------|-----------|-------|----------|
|        |                                 | Leq Day      | Leq Night |       |          |
| 1.     | Near Furnace Area (HCL Section) | 71.4         | 61.4      | dB(A) | IS: 9989 |
| 2.     | Near Cell House                 | 70.1         | 63.2      | dB(A) | IS: 9989 |
| 3.     | Near Electrical Work Shop       | 71.8         | 64.7      | dB(A) | IS: 9989 |
| 4.     | Chlorine Section                | 69.2         | 61.6      | dB(A) | IS: 9989 |
| 5.     | Brine Section                   | 73.5         | 65.0      | dB(A) | IS: 9989 |
| 6.     | Hypo Section                    | 72.0         | 63.5      | dB(A) | IS: 9989 |
| 7.     | Near Cooling Tower Area         | 73.3         | 67.2      | dB(A) | IS: 9989 |

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

Page No. 1 of 1

**Deepak Singh**  
Tested by

**Sita Ram Yadav**  
Checked by

**Rajkumar Yadav**  
Authorized Signatory

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## TEST REPORT

|                         |                                                                                                             |                          |                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sample Number:          | <b>JME/GILCD/WN/03</b>                                                                                      | Report No.:              | <b>JME/WN/240429013</b> |
| Name & Address of Unit: | <b>M/s. Grasim Industries Limited<br/>Chemical Division<br/>Birlagram, Nagda-456331,<br/>Madhya Pradesh</b> | Format No.:              | <b>7.5 F-04</b>         |
|                         |                                                                                                             | Party Ref. No.           | <b>Nil</b>              |
|                         |                                                                                                             | Reporting Date:          | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Completion Date | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Start Date      | <b>29/04/2024</b>       |
| Sample Description:     | <b>WORK PLACE NOISE LEVEL MONITORING</b>                                                                    | Receipt Date:            | <b>29/04/2024</b>       |

### General Information

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Client Representative (Name & Designation) | <b>Mr. Vijay Ajmera (Manager- EHS)</b> |
| Sample collected by                        | <b>JMEPL Team</b>                      |
| Sampling Area                              | <b>Poly Aluminum Chloride Plant</b>    |
| Date of Monitoring                         | <b>24/04/2024 to 25/04/2024</b>        |
| Time of Monitoring                         | <b>06:00 to 06:00 hrs.</b>             |
| Instrument used                            | <b>Sound Level Meter</b>               |
| Instrument code                            | <b>JME/SLM/01/17</b>                   |
| Instrument calibration status              | <b>Calibrated</b>                      |
| Meteorological condition during monitoring | <b>Clear Sky</b>                       |
| Scope of Monitoring                        | <b>Regulatory Requirement</b>          |
| Control measure if any                     | <b>--</b>                              |
| Sampling & Analysis Protocol               | <b>IS-9989</b>                         |
| Parameter Required                         | <b>As per work order</b>               |

### TEST RESULTS

| S. No. | Location                             | Test Results |           | Unit  | Protocol |
|--------|--------------------------------------|--------------|-----------|-------|----------|
|        |                                      | Leq Day      | Leq Night |       |          |
| 1.     | Near Godown area                     | 71.3         | 62.5      | dB(A) | IS: 9989 |
| 2.     | Near PAC Control Room                | 70.9         | 60.3      | dB(A) | IS: 9989 |
| 3.     | Near Mechanical Workshop             | 71.7         | 61.0      | dB(A) | IS: 9989 |
| 4.     | Near Bleed Water Tank (Liquid Plant) | 72.5         | 64.7      | dB(A) | IS: 9989 |
| 5.     | Near Cooling Tower Area              | 72.1         | 63.9      | dB(A) | IS: 9989 |

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

Page No. 1 of 1

  
**Deepak Singh**  
Tested by

  
**Sita Ram Yadav**  
Checked by

  
**Rakesh Kumar Yadav**  
Authorized Signatory

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## TEST REPORT

|                         |                                                                                                             |                          |                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sample Number:          | <b>JME/GILCD/WN/04</b>                                                                                      | Report No.:              | <b>JME/WN/240429014</b> |
| Name & Address of Unit: | <b>M/s. Grasim Industries Limited<br/>Chemical Division<br/>Birlagram, Nagda-456331,<br/>Madhya Pradesh</b> | Format No.:              | <b>7.5 F-04</b>         |
|                         |                                                                                                             | Party Ref. No.           | <b>Nil</b>              |
|                         |                                                                                                             | Reporting Date:          | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Completion Date | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Start Date      | <b>29/04/2024</b>       |
| Sample Description:     | <b>WORK PLACE NOISE LEVEL MONITORING</b>                                                                    | Receipt Date:            | <b>29/04/2024</b>       |

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Calcium Chloride Plant**  
**25/04/2024 to 26/04/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/16**  
**Calibrated**  
**Clear Sky**  
**Regulatory Requirement**  
**--**  
**IS-9989**  
**As per work order**

### TEST RESULTS

| S. No. | Location                       | Test Results |           | Unit  | Protocol |
|--------|--------------------------------|--------------|-----------|-------|----------|
|        |                                | Leq Day      | Leq Night |       |          |
| 1.     | Near Control Room              | 71.0         | 62.4      | dB(A) | IS: 9989 |
| 2.     | Near Storage Tank              | 68.2         | 60.6      | dB(A) | IS: 9989 |
| 3.     | Near Slurry Area (Sludge Area) | 72.7         | 63.9      | dB(A) | IS: 9989 |
| 4.     | Near Ware House (Godown)       | 69.5         | 61.5      | dB(A) | IS: 9989 |
| 5.     | Near Cooling Tower             | 72.4         | 64.4      | dB(A) | IS: 9989 |

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

Page No. 1 of 1

**Deepak Singh**  
Tested by

**Sita Ram Yadav**  
Checked by

**Raj Kumar Yadav**  
Authorized Signatory

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## TEST REPORT

Sample Number: **JME/GILCD/WN/05**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda-456331,  
Madhya Pradesh**

Report No.: **JME/WN/240429015**  
Format No.: **7.5 F-04**  
Party Ref. No.: **Nil**  
Reporting Date: **01/05/2024**  
Analysis Completion Date: **01/05/2024**  
Analysis Start Date: **29/04/2024**  
Receipt Date: **29/04/2024**

Sample Description: **WORK PLACE NOISE LEVEL MONITORING**

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Membrane Caustic Soda Plant – 2**  
**25/04/2024 to 26/04/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/17**  
**Calibrated**  
**Clear Sky**  
**Regulatory Requirement**  
**--**  
**IS-9989**  
**As per work order**

### TEST RESULTS

| S. No. | Location                                   | Test Results |           | Unit  | Protocol |
|--------|--------------------------------------------|--------------|-----------|-------|----------|
|        |                                            | Leq Day      | Leq Night |       |          |
| 1.     | Near Furnace Area (HCL Section)            | 67.2         | 60.5      | dB(A) | IS: 9989 |
| 2.     | Near Caustic Concentration                 | 72.1         | 65.6      | dB(A) | IS: 9989 |
| 3.     | Near Mechanical Work Shop                  | 71.9         | 67.1      | dB(A) | IS: 9989 |
| 4.     | Near Washery MCC Room (Near Cooling Tower) | 72.7         | 66.0      | dB(A) | IS: 9989 |
| 5.     | CSF Area                                   | 70.4         | 61.6      | dB(A) | IS: 9989 |
| 6.     | Chlorine Section                           | 72.5         | 65.4      | dB(A) | IS: 9989 |
| 7.     | Brine Section                              | 72.7         | 63.0      | dB(A) | IS: 9989 |
| 8.     | CSF Filling (Godown Area)                  | 71.2         | 62.8      | dB(A) | IS: 9989 |
| 9.     | Hypo Section                               | 72.6         | 64.3      | dB(A) | IS: 9989 |

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

**Deepak Singh**  
Tested by

**Sita Ram Yadav**  
Checked by

**Rajkumar Yadav**  
Authorized Signatory

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## TEST REPORT

|                         |                                                                                                             |                          |                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sample Number:          | <b>JME/GILCD/WN/06</b>                                                                                      | Report No.:              | <b>JME/WN/240429016</b> |
| Name & Address of Unit: | <b>M/s. Grasim Industries Limited<br/>Chemical Division<br/>Birlagram, Nagda-456331,<br/>Madhya Pradesh</b> | Format No.:              | <b>7.5 F-04</b>         |
|                         |                                                                                                             | Party Ref. No.           | <b>Nil</b>              |
|                         |                                                                                                             | Reporting Date:          | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Completion Date | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Start Date      | <b>29/04/2024</b>       |
| Sample Description:     | <b>WORK PLACE NOISE LEVEL MONITORING</b>                                                                    | Receipt Date:            | <b>29/04/2024</b>       |

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Stable Bleaching Powder Plant**  
**26/04/2024 To 27/04/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/17**  
**Calibrated**  
**Clear Sky**  
**Regulatory Requirement**  
**--**  
**IS-9989**  
**As per work order**

### TEST RESULTS

| S. No. | Location                                                   | Test Results |           | Unit  | Protocol |
|--------|------------------------------------------------------------|--------------|-----------|-------|----------|
|        |                                                            | Leq Day      | Leq Night |       |          |
| 1.     | Near SBP Ware House I (Near Drum)                          | 67.5         | 58.2      | dB(A) | IS: 9989 |
| 2.     | Near SBP Ware House II (Near Drum)                         | 68.3         | 56.6      | dB(A) | IS: 9989 |
| 3.     | Near Mechanical Workshop                                   | 70.1         | 59.0      | dB(A) | IS: 9989 |
| 4.     | Near Cooling Tower (1 <sup>st</sup> Phase)                 | 73.6         | 64.4      | dB(A) | IS: 9989 |
| 5.     | Near Cooling Tower (2 <sup>nd</sup> Phase – Near Roadside) | 72.0         | 63.7      | dB(A) | IS: 9989 |
| 6.     | Lime Godown Area (Near Hopper)                             | 61.4         | 50.2      | dB(A) | IS: 9989 |

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

Page No. 1 of 1

**Deepak Singh**  
Tested by

**Sita Ram Yadav**  
Checked by

**Rajkumar Yadav**  
Authorized Signatory

#### Note:

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#### Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,  
Phase-IV, Gurugram-122015 (Haryana)  
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

#### Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,  
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Gurugram-122011(Haryana)





25 years of success

# J.M. ENVIROLAB PVT. LTD.

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

|                         |                                                                                                             |                          |                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Sample Number:          | <b>JME/GILCD/WN/07</b>                                                                                      | Report No.:              | <b>JME/WN/240429017</b> |
| Name & Address of Unit: | <b>M/s. Grasim Industries Limited<br/>Chemical Division<br/>Birlagram, Nagda-456331,<br/>Madhya Pradesh</b> | Format No.:              | <b>7.5 F-04</b>         |
|                         |                                                                                                             | Party Ref. No.           | <b>Nil</b>              |
|                         |                                                                                                             | Reporting Date:          | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Completion Date | <b>01/05/2024</b>       |
|                         |                                                                                                             | Analysis Start Date      | <b>29/04/2024</b>       |
| Sample Description:     | <b>WORK PLACE NOISE LEVEL MONITORING</b>                                                                    | Receipt Date:            | <b>29/04/2024</b>       |

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Chlorinated Paraffin**  
**26/04/2024 To 27/04/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/16**  
**Calibrated**  
**Clear Sky**  
**Regulatory Requirement**  
**--**  
**IS-9989**  
**As per work order**

### TEST RESULTS

| S. No. | Location                           | Test Results |           | Unit  | Protocol |
|--------|------------------------------------|--------------|-----------|-------|----------|
|        |                                    | Leq Day      | Leq Night |       |          |
| 1.     | Near C. P. Loading Area            | 71.7         | 62.7      | dB(A) | IS: 9989 |
| 2.     | Near Tank Area                     | 60.8         | 51.2      | dB(A) | IS: 9989 |
| 3.     | Near Cooling Tower                 | 72.0         | 65.5      | dB(A) | IS: 9989 |
| 4.     | Near Ware House                    | 62.6         | 54.1      | dB(A) | IS: 9989 |
| 5.     | Plant Area (1 <sup>st</sup> Floor) | 72.5         | 64.3      | dB(A) | IS: 9989 |

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

Page No. 1 of 1

**Deepak Singh**  
Tested by

**Sita Ram Yadav**  
Checked by

**Raj Kumar Yadav**  
Authorized Signatory

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E-mail: [jmenvirolab@hotmail.com](mailto:jmenvirolab@hotmail.com) | [www.jmenvironet.org](http://www.jmenvironet.org)

#### Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,  
Golf Course Ext. Road, Sector-61,  
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# J.M. ENVIROLAB PVT. LTD.

30 years of success

Approved from MoEF&amp;CC &amp; Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/WN/02  
 Name & Address of Unit: M/s. Grasim Industries Limited  
 Chemical Division  
 Birlagram, Nagda-456331,  
 Madhya Pradesh

Report No.: JME/WN/240429010  
 Format No.: 7.5 F-04  
 Party Ref. No.: Nil  
 Reporting Date: 02/08/2024  
 Analysis Completion Date: 02/08/2024  
 Analysis Start Date: 27/07/2024  
 Receipt Date: 27/07/2024

Sample Description: WORK PLACE NOISE LEVEL MONITORING

### General Information

Client Representative (Name & Designation)  
 Sample collected by  
 Sampling Area  
 Date of Monitoring  
 Time of Monitoring  
 Instrument used  
 Instrument code  
 Instrument calibration status  
 Meteorological condition during monitoring  
 Scope of Monitoring  
 Control measure if any  
 Sampling & Analysis Protocol  
 Parameter Required

Mr. Vijay Ajmera (Manager- EHS)  
 JMEPL Team  
 Membrane Caustic Soda Plant – 1  
 25/07/2024 to 26/07/2024  
 06:00 to 06:00 hrs.  
 Sound Level Meter  
 JME/SLM/01/24  
 Calibrated  
 Clear Sky  
 Regulatory Requirement  
 --  
 IS-9989  
 As per work order

### TEST RESULTS

| S. No. | Location                        | Test Results |           | Unit  | Protocol |
|--------|---------------------------------|--------------|-----------|-------|----------|
|        |                                 | Leq Day      | Leq Night |       |          |
| 1.     | Near Furnace Area (HCL Section) | 69.1         | 60.1      | dB(A) | IS: 9989 |
| 2.     | Near Cell House                 | 68.4         | 62.4      | dB(A) | IS: 9989 |
| 3.     | Near Electrical Work Shop       | 69.5         | 63.2      | dB(A) | IS: 9989 |
| 4.     | Chlorine Section                | 68.1         | 60.4      | dB(A) | IS: 9989 |
| 5.     | Brine Section                   | 71.6         | 64.1      | dB(A) | IS: 9989 |
| 6.     | Hypo Section                    | 70.3         | 62.1      | dB(A) | IS: 9989 |
| 7.     | Near Cooling Tower Area         | 72.8         | 66.3      | dB(A) | IS: 9989 |

\*\*End of Report\*\*

*Deepak Singh*  
 Tested by

*Abhishek Tiwari*  
 Checked by

*Sita Ram Yadav*  
 Authorized Signatory

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#### Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,  
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# J.M. ENVIROLAB PVT. LTD.

CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: **JME/GILCD/WN/05**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda-456331,  
Madhya Pradesh**

Report No.: **JME/WN/240429011**  
Format No.: **7.5 F-04**  
Party Ref. No.: **Nil**  
Reporting Date: **02/08/2024**  
Analysis Completion Date: **02/08/2024**  
Analysis Start Date: **27/07/2024**  
Receipt Date: **27/07/2024**

Sample Description: **WORK PLACE NOISE LEVEL MONITORING**

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Membrane Caustic Soda Plant – 2**  
**22/07/2024 to 23/07/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/16**  
**Calibrated**  
**Clear Sky**  
**Regulatory Requirement**  
**--**  
**IS-9989**  
**As per work order**

### TEST RESULTS

| S. No. | Location                                   | Test Results |           | Unit  | Protocol |
|--------|--------------------------------------------|--------------|-----------|-------|----------|
|        |                                            | Leq Day      | Leq Night |       |          |
| 1.     | Near Furnace Area (HCL Section)            | 65.9         | 59.8      | dB(A) | IS: 9989 |
| 2.     | Near Caustic Concentration                 | 71.1         | 64.2      | dB(A) | IS: 9989 |
| 3.     | Near Mechanical Work Shop                  | 69.6         | 66.2      | dB(A) | IS: 9989 |
| 4.     | Near Washery MCC Room (Near Cooling Tower) | 70.4         | 65.4      | dB(A) | IS: 9989 |
| 5.     | CSF Area                                   | 68.2         | 60.5      | dB(A) | IS: 9989 |
| 6.     | Chlorine Section                           | 70.3         | 64.5      | dB(A) | IS: 9989 |
| 7.     | Brine Section                              | 69.8         | 60.8      | dB(A) | IS: 9989 |
| 8.     | CSF Filling (Godown Area)                  | 69.7         | 61.6      | dB(A) | IS: 9989 |
| 9.     | Hypo Section                               | 71.3         | 63.3      | dB(A) | IS: 9989 |

*Dee Singh*  
Tested by

*Abhishek Tiwari*  
Checked by

*Sita Ram Yadav*  
Authorized Signatory

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#### Corporate Office

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# J.M. ENVIROLAB PVT. LTD.

CIN No.: U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/AN/01  
Name & Address of Unit: M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda-456331,  
Madhya Pradesh

Report No.: JME/AN/240727005  
Format No.: 7.5 F-04  
Party Ref. No.: Nil  
Reporting Date: 02/08/2024  
Analysis Completion Date: 02/08/2024  
Analysis Start Date: 27/07/2024  
Receipt Date: 27/07/2024

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information

Client Representative (Name & Designation): Mr. Vijay Ajmera (Manager- EHS)  
Sample collected by: JMELPL Team  
Sampling Location: ZLD (Near RO Plant)  
Latitude: 23°26' 31.0" N  
Longitude: 75°24' 34.0" E  
Instrument used: Sound Level Meter  
Instrument code: JME/SLM/01/24  
Instrument calibration status: Calibrated  
Meteorological condition during monitoring: Clear Sky  
Date of Monitoring: 22/07/2024 to 23/07/2024  
Time of Monitoring: 06:00 to 06:00 Hrs.  
Actual duration of Monitoring, (minutes): 24 Hrs.  
Ambient Temperature (°C): Max 29°C, Min 26°C  
Surrounding activity: Human & Vehicular Activities  
Sampling & Analysis Protocol: IS-9989 and CPCB Guidelines  
Parameter Required: As per work order

### TEST RESULTS

| S. No. | Parameters                                    | Testing Protocol | Test Results dB (A)                |                                      | Unit  |
|--------|-----------------------------------------------|------------------|------------------------------------|--------------------------------------|-------|
|        |                                               |                  | Day Time<br>(06:00 AM to 10:00 PM) | Night Time<br>(10:00 PM to 06:00 AM) |       |
| 1.     | Lmax                                          | IS-9989          | 68.4                               | 62.1                                 | dB(A) |
| 2.     | Lmin                                          | IS-9989          | 56.2                               | 50.4                                 | dB(A) |
| 3.     | Leq                                           | IS-9989          | 63.5                               | 54.2                                 | dB(A) |
| 4.     | CPCB Limits in dB(A) Leq<br>(Industrial area) | --               | 75.0                               | 70.0                                 | dB(A) |

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

Page No. 1 of 1

Deebak Singh  
Tested by

Abhishek Tiwari  
Checked by

Sita Ram Yadav  
Authorized Signatory

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## TEST REPORT

Sample Number: JME/GILCD/WN/02  
 Name & Address of Unit: M/s. Grasim Industries Limited  
 Chemical Division  
 Birlagram, Nagda-456331,  
 Madhya Pradesh

Report No.: JME/WN/240429006  
 Format No.: 7.5 F-04  
 Party Ref. No.: Nil  
 Reporting Date: 02/08/2024  
 Analysis Completion Date: 02/08/2024  
 Analysis Start Date: 27/07/2024  
 Receipt Date: 27/07/2024

Sample Description: WORK PLACE NOISE LEVEL MONITORING

## General Information

Client Representative (Name & Designation)  
 Sample collected by  
 Sampling Area  
 Date of Monitoring  
 Time of Monitoring  
 Instrument used  
 Instrument code  
 Instrument calibration status  
 Meteorological condition during monitoring  
 Scope of Monitoring  
 Control measure if any  
 Sampling & Analysis Protocol  
 Parameter Required

Mr. Vijay Ajmera (Manager- EHS)  
 JMEPL Team  
 Poly Aluminum Chloride Plant  
 23/07/2024 to 24/07/2024  
 06:00 to 06:00 hrs.  
 Sound Level Meter  
 JME/SLM/01/24  
 Calibrated  
 Scattered Clouds  
 Regulatory Requirement  
 --  
 IS-9989 and CPCB Guidelines  
 As per work order

## TEST RESULTS

| S. No. | Location                             | Testing Protocol | Test Results |           | Unit  |
|--------|--------------------------------------|------------------|--------------|-----------|-------|
|        |                                      |                  | Leq Day      | Leq Night |       |
| 1.     | Near Godown area                     | IS: 9989         | 64.9         | 61.3      | dB(A) |
| 2.     | Near PAC Control Room                | IS: 9989         | 68.5         | 59.1      | dB(A) |
| 3.     | Near Mechanical Workshop             | IS: 9989         | 70.3         | 61.4      | dB(A) |
| 4.     | Near Bleed Water Tank (Liquid Plant) | IS: 9989         | 69.1         | 63.7      | dB(A) |
| 5.     | Near Cooling Tower Area              | IS: 9989         | 70.7         | 62.6      | dB(A) |

\*\*End of Report\*\*

Page No. 1 of 1

Deepak Singh  
 Tested by

Abhishek Tiwari  
 Checked by

Sita Ram Tiwari  
 Authorized Signatory

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 Gurugram-122011(Haryana)





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# J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: JME/GILCD/WN/03  
Name & Address of Unit: M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda-456331,  
Madhya Pradesh

Report No.: JME/WN/240429007  
Format No.: 7.5 F-04  
Party Ref. No.: Nil  
Reporting Date: 02/08/2024  
Analysis Completion Date: 02/08/2024  
Analysis Start Date: 27/07/2024  
Receipt Date: 27/07/2024

Sample Description: WORK PLACE NOISE LEVEL MONITORING

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

Mr. Vijay Ajmera (Manager- EHS)  
JMEPL Team  
Calcium Chloride Plant  
23/07/2024 to 24/07/2024  
06:00 to 06:00 hrs.  
Sound Level Meter  
JME/SLM/01/16  
Calibrated  
Scattered Clouds  
Regulatory Requirement  
--  
IS-9989 and CPCB Guidelines  
As per work order

### TEST RESULTS

| S. No. | Location                       | Testing Protocol | Test Results |           | Unit  |
|--------|--------------------------------|------------------|--------------|-----------|-------|
|        |                                |                  | Leq Day      | Leq Night |       |
| 1.     | Near Control Room              | IS: 9989         | 63.6         | 59.2      | dB(A) |
| 2.     | Near Storage Tank              | IS: 9989         | 66.8         | 59.4      | dB(A) |
| 3.     | Near Slurry Area (Sludge Area) | IS: 9989         | 70.2         | 62.6      | dB(A) |
| 4.     | Near Ware House (Godown)       | IS: 9989         | 64.1         | 56.3      | dB(A) |
| 5.     | Near Cooling Tower             | IS: 9989         | 71.4         | 63.1      | dB(A) |

\*\*End of Report\*\*

Page No. 1 of 1

Deebar Singh  
Tested by

Abhishek Tiwari  
Checked by

Sita Ram Yadav  
Authorized Signatory

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## TEST REPORT

Sample Number: **JME/GILCD/WN/04**  
 Name & Address of Unit: **M/s. Grasim Industries Limited  
 Chemical Division  
 Birlagram, Nagda-456331,  
 Madhya Pradesh**

Report No.: **JME/WN/240429008**  
 Format No.: **7.5 F-04**  
 Party Ref. No.: **Nil**  
 Reporting Date: **02/08/2024**  
 Analysis Completion Date: **02/08/2024**  
 Analysis Start Date: **27/07/2024**  
 Receipt Date: **27/07/2024**

Sample Description: **WORK PLACE NOISE LEVEL MONITORING**

### General Information

Client Representative (Name & Designation)  
 Sample collected by  
 Sampling Area  
 Date of Monitoring  
 Time of Monitoring  
 Instrument used  
 Instrument code  
 Instrument calibration status  
 Meteorological condition during monitoring  
 Scope of Monitoring  
 Control measure if any  
 Sampling & Analysis Protocol  
 Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Stable Bleaching Powder Plant**  
**24/07/2024 to 25/07/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/24**  
**Calibrated**  
**Scattered Clouds**  
**Regulatory Requirement**  
**--**  
**IS-9989 and CPCB Guidelines**  
**As per work order**

### TEST RESULTS

| S. No. | Location                                                   | Testing Protocol | Test Results |           | Unit  |
|--------|------------------------------------------------------------|------------------|--------------|-----------|-------|
|        |                                                            |                  | Leq Day      | Leq Night |       |
| 1.     | Near SBP Ware House I (Near Drum)                          | IS: 9989         | 64.2         | 53.8      | dB(A) |
| 2.     | Near SBP Ware House II (Near Drum)                         | IS: 9989         | 66.9         | 55.5      | dB(A) |
| 3.     | Near Mechanical Workshop                                   | IS: 9989         | 62.7         | 51.3      | dB(A) |
| 4.     | Near Cooling Tower (1 <sup>st</sup> Phase)                 | IS: 9989         | 71.1         | 63.6      | dB(A) |
| 5.     | Near Cooling Tower (2 <sup>nd</sup> Phase – Near Roadside) | IS: 9989         | 70.6         | 62.4      | dB(A) |
| 6.     | Lime Godown Area (Near Hopper)                             | IS: 9989         | 62.3         | 49.5      | dB(A) |

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

Page No. 1 of 1

**Deenak Singh**  
 Tested by

**Abhishek Tiwari**  
 Checked by

**Sita Ram Yadav**  
 Authorized Signatory

### Note:

1. This test report has been at your request and test results pertain to the tested sample received.
2. This reports is for your reference only and not to be used for any legal purpose.
3. Any discrepancy in the test report or any remarks regarding the test results shall be brought to our knowledge within 7 days of the issue of this report.
4. Total liability or any claim in case of dispute is limited to the invoice raised by the laboratory.
5. The sample will be destroyed after retention time unless otherwise specified specially.
6. Endorsement of the product tested by the laboratory is neither inferred nor implied.
7. Report shall not be reproduce except in full without approval of the laboratory.
8. All disputes are subject to exclusive jurisdiction of Jaipur court only.

### Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,  
 Phase-IV, Gurugram-122015 (Haryana)  
 E-mail: [jmenvirolab@hotmail.com](mailto:jmenvirolab@hotmail.com) | [www.jmenvironet.org](http://www.jmenvironet.org)

### Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517,  
 Golf Course Ext. Road, Sector-61,  
 Gurugram-122011(Haryana)





30 years of success

# J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## TEST REPORT

Sample Number: **JME/GILCD/WN/05**  
Name & Address of Unit: **M/s. Grasim Industries Limited  
Chemical Division  
Birlagram, Nagda-456331,  
Madhya Pradesh**

Report No.: **JME/WN/240429009**  
Format No.: **7.5 F-04**  
Party Ref. No.: **Nil**  
Reporting Date: **02/08/2024**  
Analysis Completion Date: **02/08/2024**  
Analysis Start Date: **27/07/2024**  
Receipt Date: **27/07/2024**

Sample Description: **WORK PLACE NOISE LEVEL MONITORING**

### General Information

Client Representative (Name & Designation)  
Sample collected by  
Sampling Area  
Date of Monitoring  
Time of Monitoring  
Instrument used  
Instrument code  
Instrument calibration status  
Meteorological condition during monitoring  
Scope of Monitoring  
Control measure if any  
Sampling & Analysis Protocol  
Parameter Required

**Mr. Vijay Ajmera (Manager- EHS)**  
**JMEPL Team**  
**Chlorinated Paraffin**  
**25/07/2024 To 26/07/2024**  
**06:00 to 06:00 hrs.**  
**Sound Level Meter**  
**JME/SLM/01/16**  
**Calibrated**  
**Scattered Clouds**  
**Regulatory Requirement**  
**--**  
**IS-9989 and CPCB Guidelines**  
**As per work order**

### TEST RESULTS

| S. No. | Location                           | Testing Protocol | Test Results |           | Unit  |
|--------|------------------------------------|------------------|--------------|-----------|-------|
|        |                                    |                  | Leq Day      | Leq Night |       |
| 1.     | Near C. P. Loading Area            | IS: 9989         | 70.3         | 61.4      | dB(A) |
| 2.     | Near Tank Area                     | IS: 9989         | 62.6         | 50.2      | dB(A) |
| 3.     | Near Cooling Tower                 | IS: 9989         | 70.4         | 64.5      | dB(A) |
| 4.     | Near Ware House                    | IS: 9989         | 62.7         | 53.9      | dB(A) |
| 5.     | Plant Area (1 <sup>st</sup> Floor) | IS: 9989         | 71.4         | 63.7      | dB(A) |

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

Page No. 1 of 1

**Deepak Singh**  
Tested by

**Abhishek Tiwari**  
Checked by

**Sita Ram Yadav**  
Authorized Signatory

#### Note:

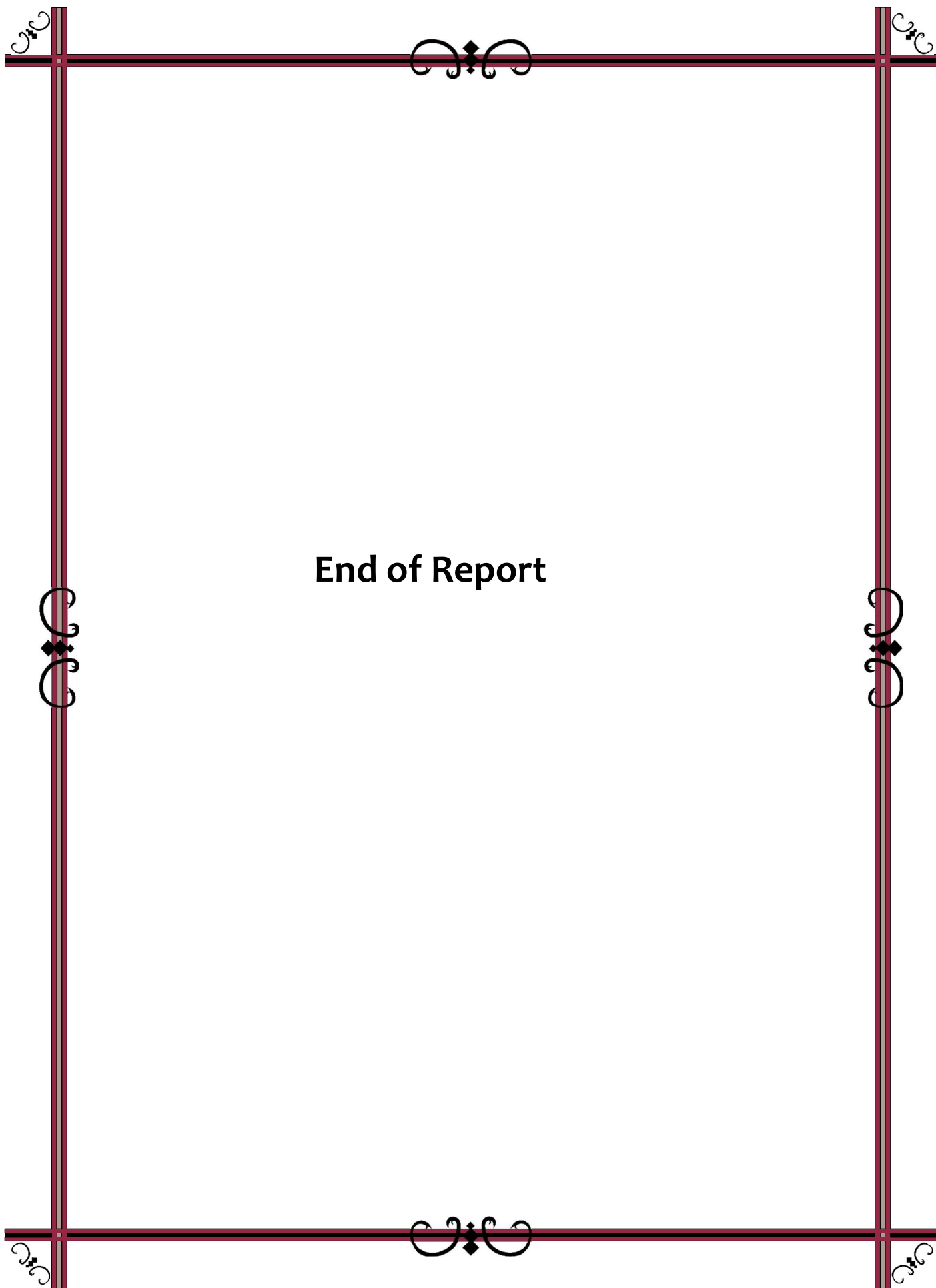
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**End of Report**