

Your (**Environment Clearance**) application has been **Submitted** with following details

<b>Proposal No</b>	EC22B023PB139111
<b>Compliance ID</b>	49903907
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/49903907/2024
<b>Reporting Year</b>	2023
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	30-05-2024
<b>IRO Name</b>	Santosh Tiwari
<b>IRO Email</b>	bh158@ifs.nic.in
<b>State</b>	PUNJAB
<b>IRO Office Address</b>	Integrated Regional Offices, Chandigarh

**Note:-** SMS and E-Mail has been sent to Santosh Tiwari, PUNJAB with Notification to Project Proponent.



Ref: Grasim/LDH/EHS/2024/23

Date: 29/05/2024

To,  
The Chairman (SEIAA)  
The Ministry of Environment, Forests and Climate Change  
Directorate of Environment & Climate Change  
MGSIPA Complex Sector-26,  
Chandigarh-160019

**Subject:** Online Submission of Environmental Clearance Six-monthly Compliance Report with reference to EC No: EC22B023PB139111, File No.: SEIAA/PB/IND/2021/EC/22, Dated: 19<sup>th</sup> January 2022

Dear Sir,

With reference to above mentioned subject, we are hereby submitting the six-monthly EC compliance report from the period of 1<sup>st</sup> Oct 2023 to 30th March 2024 on the online Parivesh Portal.

Please find the enclosed report for your perusal on Parivesh portal.

Thanking you,  
Sincerely,  
For Grasim Industries Limited



(Authorized Signatory)

Grasim Industries Limited

(Birla Paints Division)

Site Address: Plot Nos. B1 & D02, Village- Dhanansu, Hitech Valley, Chandigarh Highway, Ludhiana, Punjab, Pin- 141112

W: www.adityabirla.com

**Half Yearly Compliance Report**  
**2023**  
**01 Jun(01 Oct - 31 Mar)**

**Acknowledgment**

<b>Proposal Name</b>	Integrated Paint Manufacturing Unit in Plot No. B-1, D-02 (P), Hi-Tech Valley, Village Dhanansu, Dist. Ludhiana, State Punjab		
<b>Name of Entity / Corporate Office</b>	M/S. GRASIM INDUSTRIES LIMITED		
<b>Village(s)</b>	N/A		
<b>District</b>	LUDHIANA		
<b>Proposal No.</b>	EC22B023PB139111	<b>Category</b>	Industrial Projects - 1
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	PUNJAB	<b>Entity's PAN</b>	NA
<b>MoEF File No.</b>	SELAA/PB/IND/2021/EC/22	<b>Entity name as per PAN</b>	NA

**Compliance Reporting Details**

**Reporting Year** 2023

**Remarks (if any)** Dear Sir, We are hereby submitting the six-monthly EC compliance report from the period of 1st Sept 2023 to 31st March 2024. We request you to kindly acknowledge the same.  
Thanking you, Sincerely,  
Grasim Industries Limited,  
Ludhiana

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** M/S. GRASIM INDUSTRIES LIMITED

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	24.8382	24.8382
Total	24.8382	24.8382

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Solvent Based Paints	Others:KLPA	N/A	60,000	0	
2	Resins	Others:KLPA	N/A	40,000	0	
3	Water-based paints	Others:KLPA	31/03/2026	3,00,000	10134	2,50,000
4	Emulsion	Others:KLPA	31/03/2026	1,20,000	3150	100000

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	i) The Project Proponent shall make necessary arrangements for control of Air Pollution occurring due to the installation and operation of the Air Polluting machinery installed in the industrial premises.

#### PPs Submission: Complied

This is noted and compliance assured. The sited has provide the adequate air pollution control devices i.e dust collectors, scrubbers system and stack height as per the statutory guidliness. All stack report enclosed.

Date:  
27/05/2024

2	MISCELLANEOUS	ii) The project proponent shall install 24x7 continuous online SPM monitoring system at the inlet and outlet of APCD to monitor and achieve the suspended particulate matter (SPM) emission standards as prescribed by CPCB/SPCB.
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#### PPs Submission: Being Complied

This is noted for the compliance. The site has installed cems monitoring station on boilers stack.

Date:  
28/05/2024

3	MISCELLANEOUS	iii) The project proponent shall submit monthly summary report of continuous stack emission (inclusive of data of continuous SPM monitoring at inlet and outlet of APCD before stack) and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring reports.
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#### PPs Submission: Being Complied

This is noted for compliance. The cems system has been installed at boiler stack at site.

Date:  
27/05/2024

4	MISCELLANEOUS	iv) The project proponent shall obtain NOC from CGWA/PWRDA for abstraction of ground water @ 1158 KLD to meet the Industrial, domestic and green belt water requirements of their Project.
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#### PPs Submission: Being Complied

The site received the valid NOC of ground water extraction permission. NOC enclosed.

Date:  
24/05/2024

5	MISCELLANEOUS	v) The project proponent shall construct two no. of rain water tanks of total capacity 9600 KL to store rain water run off generated from the roof tops etc during monsoon season within its premises.
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<b>PPs Submission: Complied</b> The site has constructed roof & storm water tank with combined total capacity of 9600 kl.		Date: 24/05/2024
6	MISCELLANEOUS	vi) The project proponent shall minimize the water consumption in the industrial plant complex by segregation of used water, practicing cascade use and by recycling treated water.
<b>PPs Submission: Being Complied</b> The condition is being complied.		Date: 24/05/2024
7	MISCELLANEOUS	vii) The project proponent shall provide STP of 30 KLD for treatment of waste water and reutilize the treated water for non-portable use so as to achieve zero liquid discharge condition as per Clause III (iv) of OM dated 09.08.2018 issued by the MoEF&CC for such units.
<b>PPs Submission: Complied</b> The site has installed the STP plant of 30 KLD. The STP is in regular operation of treating the sewage water generated at site. The condition is noted, and compliance assured.		Date: 24/05/2024
8	MISCELLANEOUS	viii) The project proponent shall reuse water of the cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
<b>PPs Submission: Being Complied</b> Noted and compliance assured.		Date: 24/05/2024
9	MISCELLANEOUS	ix) The project proponent shall undertake pre-monsoon and post monsoon monitoring of the Ground water for heavy metals in addition to routine parameters. At least 3 samples i.e. one from within the premises and two from outside the premises of the industry shall be taken.
<b>PPs Submission: Complied</b> Noted and compliance assured. The monitoring report of borewell water attached for the pre & post monsoons. Enclosed the test report of borewell water.		Date: 25/05/2024
10	MISCELLANEOUS	x) The project proponent shall reserve land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking. The area to be reserved should be worked out by considering the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
<b>PPs Submission: Being Complied</b> Noted and Compliance assured. The unit has own parking inside the plant for RM truck, FG truck & Employees.		Date: 24/05/2024
11	MISCELLANEOUS	xi) All the vehicle movement areas as well as approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete to control the dust emissions expected from vehicle movements.
<b>PPs Submission: Complied</b>		Date:

Noted and compliance assured.		Date: 24/05/2024
12	MISCELLANEOUS	xii) The vehicles to be used for loading/unloading purposes shall not be parked along the roadside to avoid traffic congestion and a dedicated parking place to be provided for the same within the Project premises.
PPs Submission: Complied Noted and compliance assured.		Date: 24/05/2024
13	MISCELLANEOUS	xiii) The project proponent shall adopt green technologies to conserve water and energy. Also, provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance and disposal of discarded fire bricks if applicable.
PPs Submission: Being Complied Noted and compliance assured.		Date: 24/05/2024
14	MISCELLANEOUS	xiv) The project proponent shall use natural gas as substitute fuel wherever possible in the existing industry/ for the expansion project as soon as this becomes commercially available.
PPs Submission: Being Complied Noted for compliances. The site has completed the piping work of using the natural gas in boilers.		Date: 24/05/2024
15	MISCELLANEOUS	Additional conditions by SEIAA : (i) The project proponent shall submit detailed Corporate Environmental Responsibility (CER) plan of Rs. 9.1 crores including the timelines for its implementation within a period of 6 months after assessing the need-based requirement of the locals residing in the vicinity of the project to SEIAA Punjab for approval. Efforts should be made to prioritise activities which are directly beneficial for the Environment in preference to those which are of a social nature and can be undertaken under the CSR budget of the company. The approved CER Plan will be included in and form a part of the Environmental Management Plan (EMP) of the project.
PPs Submission: Complied Details CER plan of Rs 9.1 crore was submitted to SEIAA committee. The report of CER activities conducted enclosed.		Date: 29/05/2024
16	MISCELLANEOUS	(ii) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (i) above.
PPs Submission: Complied The condition is noted.		Date: 24/05/2024
17	MISCELLANEOUS	(iii) The project proponent shall adopt adequate safety measures to ensure that the rain water of roof tops and roads is collected for treatment and reuse. Only rainwater falling directly on the green areas may be recharged in the recharging pits located in the green areas.
PPs Submission: Being Complied Noted and compliance assured. The rainwater is collected in the rainwater storage tanks and reused.		Date: 24/05/2024
18	MISCELLANEOUS	(iv) The project proponent shall provide fish tanks at the outlets of

		the STP and ETP to ensure that the important parameter of Dissolved Oxygen (DO) remains within the permissible limits at all times.
PPs Submission: Being Complied This is noted for compliance.		Date: 24/05/2024
19	MISCELLANEOUS	(v) The Project Proponent will provide adequate number of vermicompost pits and mechanical composters to handle the biodegradable waste generated from the plant.
PPs Submission: Being Complied This is noted for compliance.		Date: 24/05/2024
20	MISCELLANEOUS	11) The SEIAA 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. SEIAA may revoke or suspend the environmental clearance if implementation of any of the above conditions is not found to be satisfactory.
PPs Submission: Being Complied This is noted for compliance.		Date: 24/05/2024
21	MISCELLANEOUS	12) 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 This is noted for compliance.		Date: 24/05/2024
22	MISCELLANEOUS	13) 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: Being Complied This is noted for compliance.		Date: 24/05/2024
23	MISCELLANEOUS	14) The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991 read with subsequent amendments therein..
PPs Submission: Being Complied Noted and compliance assured.		Date: 24/05/2024
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	Corporate Environmental Responsibility	i) 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 to all / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC/SEIAA as a part of the six-monthly compliance report.
<b>PPs Submission: Complied</b> This is noted for compliance. Enclosed the environment policy of site.		Date: 26/05/2024
2	Statutory compliance	x. The project proponent shall comply with the CLU conditions imposed by the competent authority, if any.
<b>PPs Submission: Complied</b> Noted and compliance assured.		Date: 25/05/2024
3	WATER QUALITY MONITORING AND PRESERVATION	i. The project proponent will provide for the online continuous monitoring of effluents. The unit shall install web camera with night vision capability and flow meters in the channels / drains carrying effluents within the premises (applicable in case of the projects achieving ZLD).
<b>PPs Submission: Being Complied</b> The site has installed the online monitoring system on final treated water. The flow meter and night vision camera installed. The CPCB registration and net connectivity work are in progress. This status is till 31st March 2024.		Date: 28/05/2024
4	WATER QUALITY MONITORING AND PRESERVATION	ii. As committed by the project proponent, Zero Liquid Discharge shall be ensured, and no waste/treated water shall be discharged outside the premises.
<b>PPs Submission: Complied</b> Note and compliance assured.		Date: 25/05/2024
5	WATER QUALITY MONITORING AND PRESERVATION	iv. Total freshwater requirement shall not exceed the proposed quantity or as specified by the regulatory authority. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
<b>PPs Submission: Complied</b> Note and compliance assured.		Date: 25/05/2024
6	WATER QUALITY MONITORING AND PRESERVATION	v. Process effluent/any wastewater shall not be allowed to mix with storm water.
<b>PPs Submission: Being Complied</b> Noted and compliance assured.		Date: 27/05/2024
7	WATER QUALITY MONITORING AND PRESERVATION	vi. The rainwater from the roof tops of the buildings and storm water drains will be harvested / collected and utilized for different industrial operations within the plant.



PPs Submission: Complied Note and compliance assured.		Date: 25/05/2024
8	WATER QUALITY MONITORING AND PRESERVATION	vii. The project proponent shall regularly monitor the ground water quality at least twice a year (pre and post-monsoon season) through a sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
PPs Submission: Complied The ground water monitoring being done periodically. The compliance noted and assured.		Date: 25/05/2024
9	WATER QUALITY MONITORING AND PRESERVATION	viii. The Project Proponent shall install ETP with capacity of 150 KLD with primary, two stage biological and tertiary treatments followed by advance tertiary treatment like RO & MEEATFD to treat the industrial effluents generated from its processes.
PPs Submission: Complied The site has installed and commissioned successfully the ZLD plant.		Date: 25/05/2024
10	WATER QUALITY MONITORING AND PRESERVATION	ix. Sewage Treatment Plant of capacity 30 KLD shall be installed for treatment of domestic wastewater to meet the prescribed standards. The treated wastewater will be reused for greenbelt development and STP sludge will be used as manure for greenbelt development.
PPs Submission: Complied The site has installed the STP plan of 30 KLD. The compliance assured.		Date: 25/05/2024
11	Noise Monitoring & Prevention	i. Acoustic enclosure shall be provided for DG sets for controlling the noise pollution.
PPs Submission: Complied The noise monitoring of DG being done periodically. Enclosed the test report of DG.		Date: 25/05/2024
12	Noise Monitoring & Prevention	ii. The overall noise levels in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
PPs Submission: Complied The noise monitoring of ambient air being done on periodically. The condition noted and compliance assured.		Date: 25/05/2024
13	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986. The system will be connected online with the SPCB and CPCB online servers and will be periodically calibrated in accordance with the specifications and protocol of the equipment supplier through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
PPs Submission: Being Complied The site has installed the cems system on 3 boiler stacks. This is noted for the compliance.		Date: 27/05/2024

14	AIR QUALITY MONITORING AND PRESERVATION	ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
15	AIR QUALITY MONITORING AND PRESERVATION	iii. The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for 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° each), covering upwind and downwind directions.
PPs Submission: Being Complied The site has installed the online AAQM monitoring station at 4 locations at site. This is noted for the compliance.		Date: 29/05/2024
16	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied This is noted for the compliance.		Date: 27/05/2024
17	AIR QUALITY MONITORING AND PRESERVATION	v. Raw materials, coal etc shall either be stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
PPs Submission: Complied This is noted and compliance assured.		Date: 27/05/2024
18	AIR QUALITY MONITORING AND PRESERVATION	vi. Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.
PPs Submission: Complied This is noted and compliance assured.		Date: 27/05/2024
19	AIR QUALITY MONITORING AND PRESERVATION	vii. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
PPs Submission: Complied This is noted for the compliance.		Date: 27/05/2024
20	AIR QUALITY MONITORING AND PRESERVATION	viii. Sufficient number of mobile and stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.

PPs Submission: Complied This is noted and compliance assured.		Date: 27/05/2024
21	AIR QUALITY MONITORING AND PRESERVATION	ix. 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 complied with.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
22	AIR QUALITY MONITORING AND PRESERVATION	x. The National Ambient Air Quality Emission Standard issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
23	AIR QUALITY MONITORING AND PRESERVATION	xi. 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 Stack height of 30 M provided on the DG stack as per the statutory guidelines.		Date: 27/05/2024
24	Noise Monitoring & Prevention	iii. Noise level survey shall be carried out as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Office of the MOEF&CC as a part of the six-monthly compliance reports.
PPs Submission: Complied Noise level monitoring being conducted at shopfloor on periodically. Enclosed the test report.		Date: 25/05/2024
25	Noise Monitoring & Prevention	iv. 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.
PPs Submission: Complied Noted and compliance assured.		Date: 25/05/2024
26	ENERGY PRESERVATION MEASURES	i. The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, streetlights, parking around project area and maintain the same regularly.
PPs Submission: Being Complied Noted for compliance.		Date: 25/05/2024
27	ENERGY PRESERVATION MEASURES	ii. The project proponent shall provide LED lights in their offices and residential areas.
PPs Submission: Being Complied This is noted for compliance.		Date: 26/05/2024

28	WASTE MANAGEMENT	i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided wherever required.
PPs Submission: Being Complied This is noted for compliance.		Date: 26/05/2024
29	WASTE MANAGEMENT	ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic residues and evaporation salt shall be disposed off to the TSDF.
PPs Submission: Being Complied The hazardous waste generated at site are being disposed to coprocessing facility with the adherence of hazardous waste management rule 2016.		Date: 27/05/2024
30	WASTE MANAGEMENT	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 processing of raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system in batch reactors. e. Venting equipment to be equipped with vapor recovery system.
PPs Submission: Being Complied This is noted for the compliance.		Date: 26/05/2024
31	WASTE MANAGEMENT	iv. Use of high-pressure hoses for cleaning of equipment to reduce wastewater generation.
PPs Submission: Being Complied High pressure jet guns are being used at shopfloor for cleaning of vessels and equipment. Noted and compliance assured.		Date: 26/05/2024
32	WASTE MANAGEMENT	v. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
PPs Submission: Being Complied This is noted for compliance.		Date: 26/05/2024
33	WASTE MANAGEMENT	vi. Kitchen waste shall be composted or converted to biogas for further use.
PPs Submission: Being Complied This is noted for compliance.		Date: 26/05/2024
34	GREENBELT	An area of 81971 Sqm (equal to 33% of the project area) shall be developed as "Green Belt" area. At least 75% of this area (along the periphery and other open spaces) should be planted with indigenous, preferably broad leaved, tree species whereas balance greening can be done through a mix of ornamental trees, medicinal / ornamental plants, shrubs, grasses etc. The height of the saplings to be planted should not be less than 6 ft and each plant shall be properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the 12,300 saplings to be planted in the Green Belt for a period of three years after plantation. Species with heavy foliage, broad leaves and wide canopy cover should be preferred whereas plantation of water intensive and/or invasive species should be minimized.

<b>PPs Submission: Being Complied</b> This is noted for the compliance. 7000 number of trees have been planted till date in 2 phases. The third phase work has been started for the completion of total 12300 nos of trees for ensuring the compliance.		Date: 26/05/2024
35	PUBLIC HEARING	i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be prepared and implemented in case of any emergencies.
<b>PPs Submission: Being Complied</b> This is noted for compliance.		Date: 26/05/2024
36	PUBLIC HEARING	ii. The unit shall make requisite arrangements for protection from possible fire hazards during all the manufacturing, transportation and storage processes with special emphasis on the vulnerable areas. The proposed Firefighting system shall be installed and tested fully prior to commencement of operations. As proposed, Fire Tender with Water, Foam and DCP will be procured and stationed at the Fire Station (With Two Turnout Crews).
<b>PPs Submission: Being Complied</b> This is noted for compliance.		Date: 26/05/2024
37	PUBLIC HEARING	iii. The project proponent shall provide Personal Protection Equipment (PPE) as per the norms provided under the Factory Act.
<b>PPs Submission: Being Complied</b> The PPEs compliance assured at site.		Date: 26/05/2024
38	PUBLIC HEARING	iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre- employment and routine periodical medical examinations of all employees shall be undertaken on regular basis.
<b>PPs Submission: Complied</b> Training are being regular conducted at site. Condition noted and compliance assured.		Date: 26/05/2024
39	PUBLIC HEARING	v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the construction phase of the project.
<b>PPs Submission: Complied</b> Noted and compliance assured.		Date: 26/05/2024
40	PUBLIC HEARING	vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. Dedicated Occupational Health Care Centre equipped with Ambulance shall be provided within the project premises.
<b>PPs Submission: Complied</b> This is noted and compliance assured.		Date: 26/05/2024
41	PUBLIC HEARING	vii. Adequate space should be provided inside the plant premises

		dedicated for parking of vehicles for raw materials and finished products. No parking should be allowed outside on public places.
PPs Submission: Being Complied This is noted for compliance.		Date: 26/05/2024
42	WATER QUALITY MONITORING AND PRESERVATION	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 of the two is more stringent.
PPs Submission: Complied Note and compliance assured.		Date: 25/05/2024
43	MISCELLANEOUS	i) This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.
PPs Submission: Complied This is noted for the compliance.		Date: 27/05/2024
44	Statutory compliance	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 is involved in the project.
PPs Submission: Complied This condition is not applicable for site.		Date: 24/05/2024
45	Statutory compliance	ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
PPs Submission: Complied The condition is not applicable for site.		Date: 24/05/2024
46	Statutory compliance	iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and obtain its approval from the Chief Wildlife Warden, Punjab. 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-I species in the study area).
PPs Submission: Complied This condition is not applicable to site.		Date: 25/05/2024
47	Statutory compliance	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 Punjab Pollution Control Board.
PPs Submission: Complied The site has obtained the CTE, CTO under provision of Air (Prevention & Control of Pollution) Act and CTO under the provision of water act 1984.		Date: 27/05/2024
48	Statutory compliance	v. The project proponent shall obtain necessary permission from the

		Central Ground Water Authority/ Punjab Water Regulation & Development Authority (PWRDA), in case of withdrawal of groundwater and also in case of surface water required for the project. If the CGWA does not grant permission for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from the competent authority.
<b>PPs Submission: Complied</b> The site has obtained the ground water extraction permission from the Punjab Water Regulation and Development Authority. Enclosed the Ground Water NOC.		Date: 25/05/2024
49	Statutory compliance	vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
<b>PPs Submission: Complied</b> The site has obtained the HWM Certificate under the Hazardous and Other Waste Management Rule 2016. Enclosed the CTO copies.		Date: 25/05/2024
50	Statutory compliance	vii. The project proponent shall obtain authorization for its occupational Health Centre under the Bio-Medical Waste Management Rules, 2016 as amended from time to time.
<b>PPs Submission: Complied</b> The site has obtained the authorization under the Biomedical waste management rule 2016. Enclosed the certificate.		Date: 25/05/2024
51	Statutory compliance	viii. The company shall strictly comply with the rules and guidelines prescribed under Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 as amended from time to time. All transportation of hazardous chemicals shall be as per the Motor Vehicle Act (MVA), 1989
<b>PPs Submission: Being Complied</b> This is noted and compliance assured. Report enclosed.		Date: 27/05/2024
52	Statutory compliance	ix. The project proponent shall comply with the relevant siting criteria, standard operating practices, code of practice and guidelines, if any, prescribed by the SPCB/CPCB/MoEF&CC for such category of units
<b>PPs Submission: Complied</b> Noted and compliance assured.		Date: 25/05/2024
53	MISCELLANEOUS	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.
<b>PPs Submission: Complied</b> This is noted for the compliance.		Date: 27/05/2024
54	Corporate Environmental Responsibility	ii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of a Senior Executive, who will directly report to the head of the organization

PPs Submission: Complied Noted for Compliance & Proposed structure with qualified environmental professional shared during EC grant process		Date: 26/05/2024
55	Corporate Environmental Responsibility	iii) 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 will not be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs. 56.9 Cr. towards capital cost and Rs 2.76 Cr. towards recurring cost (including CER activities) for the implementation of EMP proposed by them as under:
PPs Submission: Complied Noted for compliance and details submitted during EC grant process		Date: 29/05/2024
56	Corporate Environmental Responsibility	Year-wise progress of implementation of action plan along with the Six-Monthly Compliance Report shall be submitted to the Regional Office of the MOEF&CC and SEIAA. Self environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.
PPs Submission: Complied Noted and compliance assured.		Date: 27/05/2024
57	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 in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days. The EC grated to the Project shall also be displayed in the project proponent's website permanently.
PPs Submission: Complied Noted and compliance assured.		Date: 27/05/2024
58	MISCELLANEOUS	ii) Copies of this 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 have to display the same publicly for 30 days from the date of receipt.
PPs Submission: Complied Noted and compliance assured.		Date: 27/05/2024
59	MISCELLANEOUS	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.
PPs Submission: Complied This is noted and compliance assured.		Date: 27/05/2024
60	MISCELLANEOUS	iv) The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display



		the same at a prominent location for disclosure to the public and also upload the same on the website of the company EC.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
61	MISCELLANEOUS	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 (Parivesh Portal).
PPs Submission: Being Complied This is noted for the compliance. Enclosed the last submitted report.		Date: 27/05/2024
62	MISCELLANEOUS	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 also upload the same on the website of the company.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
63	MISCELLANEOUS	vii) The project proponent shall inform the Regional Office of the Ministry and PPCB, 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: Being Complied This is noted for the compliance.		Date: 27/05/2024
64	MISCELLANEOUS	viii) The project authorities must strictly adhere to the relevant stipulations made by the State Pollution Control Board and the State Government.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
65	MISCELLANEOUS	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 those made during their presentation to the SEAC and SEIAA.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
66	MISCELLANEOUS	x) No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.
PPs Submission: Complied Noted and compliance assured.		Date: 27/05/2024
67	MISCELLANEOUS	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.

PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
68	MISCELLANEOUS	xii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
69	MISCELLANEOUS	xiii) The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary and the Project Proponent will be bound to implement the same in a timebound manner.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
70	MISCELLANEOUS	xiv) The Regional Office of the MOEF&CC and the Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. Members of SEIAA / SEAC may also undertake visits to ascertain compliance of EC conditions. The project authorities should extend full cooperation to the officer (s) / Members of the Regional Office of the MOEF&CC, PPCB and Members of SEIAA / SEAC deputed for this purpose and ensure submission of the requisite data / information/monitoring reports to the designated authorities.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
71	MISCELLANEOUS	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.
PPs Submission: Being Complied This is noted for the compliance.		Date: 27/05/2024
<b>Visit Remarks</b>		
Last Site Visit Report Date:		N/A
Additional Remarks:		Dear Sir, We are hereby submitting the six-monthly EC compliance report from the period of 1st Oct 2023 to 31st March 2024. We request you to kindly acknowledge the same. Thanking you, Sincerely, Grasin Industries Limited, Ludhiana

## ANNEXURE

Annexure Number	Annexure Description
Annexure – 1a,1b,1c & 1d	Copy of Consent to Establish, CTE extension certificate, Consent to Operate Air & Water
Annexure – 2	Copy of Ground Water Abstraction NOC from PWRDA
Annexure – 3	Copy of Consent to Operate Hazardous Waste
Annexure – 4	Copy of Application for BMW Authorization
Annexure – 5a,5b & 5c	Copy of receiving of Sch 7,8 and ERP
Annexure – 6	Sample Report of AAQ
Annexure – 7	Details of Stacks
Annexure – 8	Sample Report of Ground Water Analysis
Annexure_9	Agreement with coprocessing facility
Annexure_10	Environment Policy_ Birla Opus Paint
Annexure_11	EHS cell organogram
Annexure_12a,12b & 12c	Details of EMP, Approved CER Plan & CER update
Annexure_13a & 13b	Copy of advertisement in English & Punjabi Newspaper
Annexure_14	Copy of acknowledgement letters (EC copy submission to local authorities)
Annexure-15	Acknowledgement of last EC uploaded on portal
Annexure-16a,16b,16c	Noise monitoring report at site
Annexure 17	AAQM station installation status
Annexure 18	Green belt status
Annexure 19	Stack report



## PUNJAB POLLUTION CONTROL BOARD

Invest Punjab, PBIP, Udyog Bhawan, Sector 17, Chandigarh

Website:- www.ppcb.gov.in



Office Dispatch No: PBIP/2023/3053

Date: 09/11/2023

To:

MANOJ SINGH

PLOT NOS. B-1, D-02 (P), HI-TECH VALLEY, VILLAGE DHANANSU, DISTRICT LUDHIANA, PUNJAB  
LUDHIANA, LUDHIANA-EAST - 141112

Subject:- Fresh Authorization for operating a facility for 'collection, Generation, Storage, Transportation, Reception, Treatment, Disposal' of Hazardous Wastes as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Manoj Singh Plot B-1, D-02 (P) Hi Tech Valley village Dhananshu Ludhiana-141112 is hereby granted an authorisation based on the enclosed signed inspection report for Collection, Generation, Storage, Transportation, Treatment, Disposal, on the premises situated at Ludhiana-East, Ludhiana, 141112

## 1. Particulars of Authorization granted to the Industry:

PIN	210891528
Application No.	2310778832
Date of Issue	09-Nov-2023
Date of Expiry	31-Mar-2026
Authorization No.	HWM/AUTH/PBIP/LDH-I/2310778832
Previous Authorization Date of Issue	1-Jan-1970
Previous Authorization Date of Expiry	1-Jan-1970
Certificate Type	Fresh

## 2. Particulars of the Industry:

Name & Designation of the Applicant	Manoj Singh, (Authorized Signatory)
Name of Business Entity	Grasim Industries Limited
Name of the Project/Unit	Grasim Industries Limited
Address of Project/Unit	Plot B-1, D-02 (P) Hi Tech Valley village Dhananshu Ludhiana-141112, Ludhiana-East, Ludhiana
Capital Investment of the Industry (in lakhs)	104163.91
Category of Industry	Red
Type of Industry	1021 - Manufacturing of paints varnishes, pigments and intermediate (excluding blending/mixing)
Scale of the Industry	Large - > Rs. 50 Crore
Office District	Ludhiana-I

### 3. Particulars of Wastes:

Category of Hazardous Waste as per the schedule I,II and III of these rules:	<p>Schedule1 3.1-Cargo residue, washing water and sludge containing oil 8 T,  Schedule1 3.3-Sludge and filters contaminated with oil 5 T,  Schedule1 5.1-Used or spent oil 30 T,  Schedule1 20.1-Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse 20 T,  Schedule1 20.3-Distillation residues 71 T,  Schedule1 21.1-Process wastes, residues and sludges 90 T,  Schedule1 23.1-Wastes or residues (not made with vegetable or animal materials) 68 T,  Schedule1 33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 19 T,  Schedule1 33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 80 T,  Schedule1 35.1-Exhaust Air or Gas cleaning residue 4 T,  Schedule1 35.2-Spent ion exchange resin containing toxic metals 8 T,  Schedule1 35.3-Chemical sludge from waste water treatment 150 T,  Schedule1 35.4-Oil and grease skimming 10 T,  Schedule1 36.2-Spent carbon or filter medium 7.5 T,  Schedule1 33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 60000 Number,</p>
Authorization mode of disposal or recycling or utilisation or co-processing etc:	Generation, Storage, Disposal,

4. The Authorisation is Subject to the general and specific conditions as appended with the Authorization



Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

Encl: No

Date:

A copy of the above is forwarded to the following for information and necessary action please:

1. Senior Environmental Engineer, Zonal Office-I, Ludhiana.
2. Environmental Engineer, Regional Office-I, Ludhiana.

Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)


## A. GENERAL CONDITIONS

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.

  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

## B. SPECIAL CONDITIONS

1. The industry shall not generate/store/collect/dispose any other category of hazardous waste from its premise except the category of hazardous waste(s) for which it has been granted this authorisation under the EWM Rules, 2016.
2. The industry shall comply with the conditions of Environmental Clearance granted to it by the SEIAA Punjab vide SEIAA/PB/IND/2021/EC/22 dated 19.01.2022, in true letter & spirit.
3. The industry shall always comply with guidelines issued by PPCB/CPCB for time to time.
4. The industry shall adopt & follow the Lead Free Paint Guidelines in true letter & spirit.
5. The industry shall ensure compliance of SOP issued by CPCB for spent solvent recovery (as & when solvent recovery plant installed with permission from the Board).
6. The industry shall dispose of its hazardous waste category 3.1 & 3.3.1 to the authorized unit / recycler/ utilizer and remaining categories of hazardous waste shall be lifted either to TSDF or to pre-processor/ co-processor having valid Registration Certificate-cum-Pass Book from Punjab Pollution Control Board / Central Pollution Control Board and valid authorization of the State Board under the said Rules and consents to operate under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981 and authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, under proper manifest and shall maintain proper record in this regard at all times.
7. The industry shall store its hazardous wastes generated from different manufacturing activities, otherwise, within its premises in an environmentally sound manner as per provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
8. The industry shall ensure regular lifting of hazardous waste and also ensure that the quantity of hazardous waste generated per year shall not be stored beyond 90 days (extendable upto 180 days) in its premises at any time.
9. The industry shall handle the hazardous waste(s) strictly in accordance with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and guidelines issued by Central Pollution Control Board / Ministry of Environment & Forests and Climate Change, New Delhi.
10. In case, the industry fails to comply with the above conditions of authorization as well as provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and/or any other environmental law applicable to the industry and Rules, Circulars & Directions issued by the Board from time to time, the Board shall be constrained to take action against the industry under the provisions of the Pollution Control Laws.

  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)





**PUNJAB POLLUTION CONTROL BOARD**  
Invest Punjab, PEIP, Udyog Bhawan, Sector 17, Chandigarh  
Website:- www.ppcb.gov.in



Office Dispatch No. PBIP/I/661892/2023

Date: 12.10.2023

To

**MANOJ SINGH**  
PLOT NOS. B-1, D-02 (P), HI-TECH VALLEY, VILLAGE DHANANSU, DISTRICT LUDHIANA, PUNJAB.  
LUDHIANA, LUDHIANA-EAST -141112

**Subject:- Grant of Consent to Operate an outlet u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for discharge of effluent.**

With reference to your application for obtaining Consent to Operate an outlet for discharge of the effluent u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974, you are, hereby, authorized to operate an industrial unit for discharge of the effluent(s) arising out of your premises, subject to the Terms and Conditions as mentioned in this Certificate.

**1. Particulars of Consent to Operate under Water Act, 1974 granted to the Industry.**

PIN	210891528
Application No.	2309109161
Date of Issue:	11-Oct-2023
Date of Expiry:	31-Mar-2026
Certificate Type	Fresh
Certificate No.	CTOW/Fresh/PBIP/LDH-I/2023/2309109161

**2. Particulars of the Industry:**

Name & Designation of the Applicant	Manoj Singh, (Authorized Signatory)
Name of Business Entity	Grasim Industries Limited
Name of the Project/Unit	Grasim Industries Ltd.
Address of Project/Unit	Plot nos. B-1, D-02 (P), Hi-Tech Valley, Village Dhanansu, District Ludhiana, Punjab, Ludhiana-East, Ludhiana
Capital Investment of the Industry (in lakhs)	104168.9
Category of Industry	Red
Type of Industry	1021- Manufacturing of paints, varnishes, pigments, and intermediate (excluding blending/mixing)
Scale of the Industry	Large -> Rs. 50 Crore
Office District	Ludhiana-I
Consent Fee Details	Rs. 2160500/- vide R. No. 359065967 dated 19.09.2023 under Water Act, 1974
Raw Materials (Name with quantity per day)	Pigment such as Rutile @ 60000 MT/Annum, Extenders such as clay, calcium carbonate, silica, marble powder, dolomite @ 120000 MT/Annum, Additives such as Natrosol HEC

	6000 MT/Anm, Solvent such as dipentene MCEE ten @ 3000 KL/Year, Monomers @ 60000 KL/Year and Polycol like glycol ammonia texanol 10000 KL/Year
Products (Name with quantity per day):	Water based paint @ 250000 KL/Year Emulsion @ 100000 KL/Year
By Products, if any (Name with quantity per day) :	—
Details of the machinery and processes:	As per application form.
Details of Effluent Treatment Plant:	Domestic Effluent @23.0 KLD - Sewage Treatment Plant (STP) of capacity 30 KLD. Trade Effluent @ 91.0 KLD - Effluent Treatment Plant (ETP) of capacity 150 KLD, followed by RO, MEE & Agitate Thin Film Evaporator, based on Zero Liquid discharge (ZLD) system
Mode of disposal of Effluent:	Treated domestic effluent @ 23 KLD - onto land for plantation/ gardening of green area within the premises of the project. Treated Trade Effluent @ 91 KLD - to be reused back as cooling water makeup & other process(es) within the premises of the unit (Zero Liquid Discharge).
Standard to be achieved under Water(Prevention & Control of Pollution) Act, 1974:	As prescribed by the CPCB/MoEF&CC/PPCB, from time to time.



Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

Endst. No.

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

1. Senior Environmental Engineer, Zonal Office-I, Ludhiana.
2. Environmental Engineer, Regional Office-I, Ludhiana.

<sup>-Sol-</sup>  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

## **A. GENERAL CONDITIONS**

1. This consent is not valid for getting power load from the Punjab State Power Corporation Limited or for getting loan from the financial institutions.
2. The industry shall apply for renewal/further extension in validity of consent atleast two months before expiry of the consent.
3. The industry shall ensure that the effluent discharging through the authorized outlet shall confirm to the prescribed standards as applicable from time to time.
4. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.
5. The achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/recirculation system installed shall be the entire responsibility of the industry.
6. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Wastes(Management, Handling and Trans boundary Movement) Rules, 2008 as amended time to time , without any adverse effect on the environment, in any manner
7. The responsibility to monitor the effluent discharged from the authorized outlet and to maintain a record of the same rests with the industry. The Board shall only test check the accuracy of these reports for which the industry shall deposit the samples collection and testing fee with the Board as and when required.
8. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year
9. The industry shall submit a yearly certificate to the effect that no addition/up-gradation/modification/modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
10. During the period beginning from the date of issuance and the date of expiration of this consent, the applicant shall not discharge floating solids or visible foam.
11. Any amendments/revisions made by the Board in the tolerance limits for discharges shall be applicable to the industry from the date of such amendments/revisions
12. The industry shall not change or alter the manufacturing process(es) so as to change the quality and/or quantity of the effluents generated without the written permission of the Board.
13. Any upset conditions in the plant/plants of the factory, which is likely to result in increased effluent and/or result in violation of the standards lay down by the Board shall be reported to the Environmental Engineer,Punjab Pollution Control Board of concerned Regional Office immediately failing which any stoppage and upset conditions that come to the notice of the Board/its officers, will be deemed to be intentional violation of the conditions of consent.
14. The industry shall provide terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking Samples.
15. The industry shall for the purpose of measuring and recording the quantity of water consumed and effluent discharged, affix meters of such standards and at such places as approved by the Environmental Engineer,Punjab Pollution Control Board of the concerned Regional Office.
16. The industry shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.

17. The industry shall provide online monitoring equipment for the parameters as decided by concerned Regional Office with the effluent treatment plant/air pollution control devices installed, if applicable.

18. The pollution control devices shall be interlocked with the manufacturing process of the industry.

19. The authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board

20. The industry shall comply with the conditions imposed by the SEIAA / MOEF in the environmental clearance granted to it as required under EIA notification dated 14/9/06, if applicable.

21. The industry shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991

22. The industry shall not use any unauthorized out-let(s) for discharging effluents from its premises. All unauthorized outlets, if any, shall be connected to the authorized outlet within one month from the date of issue of this consent.

23. The industry shall make necessary arrangements for the monitoring of effluent being discharged by the industry and shall monitor its effluents:-

(i) Once in Year for Small Scale Industries

(ii) Four in a Year for Large/Medium Scale Industries

(iii) The industry will submit monthly reading/ data of the separate energy meter installed for running of effluent treatment plant/re-circulation system to the concerned Regional Office of the Board by the 5th of the following month

24. The industry shall provide electromagnetic flow meters at the source of water supply, at inlet/outlet of effluent treatment plant within one month and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th of the following month.

25. The Board reserves the right to revoke this consent at any time in case the industry is found violating any of the conditions of this consent and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 as amended from time to time.

26. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.

27. The consent does not authorize or approve the construction of any physical structures or facilities for undertaking of any work in any natural watercourse

28. Nothing in this consent shall be deemed to neither 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 subjected under this or any other Act.

29. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of septic tank.

30. The diversion or bye 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 some property damage or

(ii) Where excessive storm drainage or run off would damage facilities necessary for compliance with terms and conditions of this consent. The applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.

31. The industry shall ensure that no water pollution problem is created in the area due to discharge of effluents from its industrial premises

32. The industry shall comply with the code of practice as notified by the Government/ Board for the type of industries where the siting guidelines/ code of practice have been notified
33. Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed off in such a manner to prevent any pollutants from such materials from entering into natural water.
34. The industry shall re-circulate the entire cooling water and shall also re-circulate/reuse to the maximum extent the treated effluent in processes
35. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of re-circulation system/ effluent treatment plant.
36. The industry shall make proper disposal of the effluent so as to ensure that no stagnation occurs inside and outside the industrial premises during rainy season and no demand period
37. Where excessive storm water drainage or run off, would damage facilities necessary for compliance with terms and conditions of this consent, the applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.
38. The industry shall submit a detailed plan showing therein the distribution system for conveying waste-water for application on land for irrigation along with the crop pattern for the year.
39. The industry shall ensure that the effluent discharged by it is toxicity free
40. The industry shall not irrigate the vegetable crops with the treated effluents which are used/ consumed as raw.
41. Drains causing oil & grease contamination shall will be segregated. Oil & grease trap shall be provided to recover oil & grease from the effluent.
42. The industry shall establish sufficient number of piezometer wells in consultation with the concerned Regional Office, of the Board to monitor the impact on the Ground Water Quantity due to the industrial operations, and the monitoring shall be submitted to the Environmental Engineer of the concerned Regional Office by the 5th of every month.
43. The industry shall ensure that its production capacity & quantity of trade effluent do not exceed the quantity mentioned in the consent and shall not carry out any expansion without the prior permission/NOC of the Board.


  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

## **B. SPECIAL CONDITIONS**

1. This consent to operate has been granted for manufacturing of Water based paint @ 250000 KL/Year and Emulsion @ 100000 KL/Year, only.
2. The industry shall only manufacture the products and limit their quantities, for which it has been granted consent to operate from the Board. It shall not manufacture any other product without the prior written permission of the Board/ Competent Authority.
3. The industry shall not increase the production capacity of the unit beyond the quantities mentioned in the Environmental Clearance issued to it by SEIAA, Punjab without obtaining revised Environmental Clearance from the Competent Authority..
4. The industry shall comply with the conditions of Environmental Clearance granted to it by the SEIAA, Punjab, vide SEIAA/PB/IND/2021/EC/22 dated 19.01.2022, in true letter & spirit.
5. The industry shall always comply with guidelines issued by PPCB/CPCB for time to time.
6. The industry shall adopt & follow the Lead Free Paint Guidelines in true letter & spirit.
7. The adequacy and efficacy of the Effluent Treatment Plant (ETP), Sewage Treatment Plant (STP) and Multi Effect Evaporator (MEE) installed by the industry its premises, is the entire responsibility of the industry.
8. The industry shall adopt Zero Liquid Discharge (ZLD) system, at all times and use the entire quantity of treated trade effluent back into the process and shall not discharge the same within or outside its premises, under any circumstance. The industry shall maintain the record of the readings of the Flow meter provided at the re-circulation line, at all times.
9. The industry shall regularly operate & maintain its effluent treatment plant and the treated effluent shall be reused in the process in accordance with the water balance submitted by it.
10. The industry shall keep the record of freshwater consumed/ treated wastewater/ re-circulated water and treated water discharged onto land for plantation within and outside the industry on daily basis and shall submit the same to the Board on monthly basis.
11. The industry shall maintain adequate plantation area as well as permanent pipeline network for uniform distribution of wastewater in the entire plantation area, so that no stagnation of wastewater occurs inside, outside or in the plantation area at any time.
12. The industry shall not discharge any trade & domestic effluent (treated or untreated) into choc / drain /river or inland surface water at any time or any other unauthorized place by any unauthorized means and shall reuse the treated effluent in the process in accordance with the water balance submitted by it. Further, the industry shall stick to the water balance submitted by it.
13. The project proponent shall minimize the water consumption in the industrial plant complex by segregation of used water, practicing cascade use and by recycling treated water.
14. The industry shall comply with the guidelines issued by the PWRDA, from time to time.
15. The project proponent shall reuse water of the cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse
16. The project proponent shall undertake pre-monsoon and post monsoon monitoring of the Ground water for heavy metals in addition to routine parameters. At least 3 samples i.e. one from within the premises and two from outside the premises of the industry shall be taken.
17. The industry shall comply with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
18. The industry shall comply with the provisions of Solid Waste Management Rules, 2016.
19. The industry shall comply with the provisions of the Plastic Waste Management Rules, 2016.
20. The industry shall obtain all the statutory approvals/clearances from the concerned departments.
21. This Consent is being issued to the industry based upon the documents/ information submitted by it

along with the online application form. The Board would be at liberty to take penal action against the industry and its responsible/ concerned person(s) in case information/document is detected as incorrect/false/misleading at any point of time, without any opportunity of Personal Hearing.

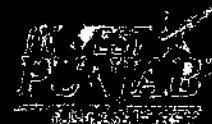
22. In case the industry fails to comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and/or any other environmental law applicable to the project and Rules, Circulars & Directions issued by the Board from time to time, action as deemed fit shall be taken against the industry.

  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)





**PUNJAB POLLUTION CONTROL BOARD**  
Invest Punjab, PBIP, Udyog Bhawan, Sector 17, Chandigarh  
Website:- www.ppcb.gov.in



Office Dispatch No. PBIP/I/661865/2023

Date: 12.10.2023

To

MANOJ SINGH

PLOT NOS. B-1, D-02 (P), HI-TECH VALLEY, VILLAGE DHANANSU, DISTRICT LUDHIANA, PUNJAB.  
LUDHIANA, LUDHIANA-EAST - 141112

Subject:- Grant of 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

With reference to your application for obtaining fresh 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are, hereby, authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

**1. Particulars of Consent to Operate under Air Act, 1981 granted to the Industry:**

PIN	210891528
Application No.	2309952754
Date of Issue	11-Oct-2023
Date of Expiry	31-Mar-2026
Certificate Type	Fresh
Certificate No.	CTOA/Fresh/PBIP/LDH-I/2023/2309952754

**2. Particulars of the Industry:**

Name & Designation of the Applicant	Manoj Singh, (Authorized Signatory)
Name of Business Entity	Grasim Industries Limited
Name of the Project/Unit	Grasim Industries Limited
Address of Project/Unit	Plot nos. B-1, D-02 (P), Hi-Tech Valley, Village Dhanansu, District Ludhiana, Punjab, Ludhiana-East, Ludhiana
Capital Investment of the Industry (in lakhs)	104163.9
Category of Industry	Red
Type of Industry	1021 - Manufacturing of paints, varnishes, pigments and intermediate (excluding blending/mixing)
Scale of the Industry	Large -> Rs. 50 Crore
Office District	Ludhiana-I
Consent Fee Details	Rs. 2160500/- vide R. No. 359065967 dated 19.09.2023 under Air Act, 1981
Raw Materials (Name with quantity per day)	Pigment such as Rutile @ 60000 MT/Ann, Extenders such as clay calcium carbonate silica-marble powder dolomite @ 120000 MT/Ann, Additives such as Natrosol HEC

	6000 MT/Anm, Solvent such as dipentene MCEE ten @ 3000 KL/Year, Monomers @ 60000 KL/Year and Polycol like glycol ammonia texanol 10000 KL/Year
Products (Name with quantity per day):	Water based paint @ 250000 KL/Year Emulsion @ 100000 KL/Year
By Products, if any (Name with quantity per day) :	—
Details of the machinery and processes:	As per application form
Sources of emissions and type of pollutants:	1. 2 no. Boilers of capacity 2 TPH each – SPM/SOx/NOx 2. 1 no. Boiler of capacity 0.5 TPH each – SPM/SOx/NOx 3. 2 no. DG set of capacity 2000 KVA each – SPM/SOx/NOx 4. Process Emission: WPB – SPM 5. Process Emission: EB – SPM 6. Process Emission: TSD – SPM
Mode of disposal of emissions with stack height:	1. 2 no. Boilers of capacity 2 TPH each – 30 m AGL 2. 1 no. Boiler of capacity 0.5 TPH each – 30 m AGL 3. 2 no. DG set of capacity 2000 KVA each – Stack of height as per following formula: $H = h + 0.2 (KVA)^{0.5}$ where h = height of the building in meters where the generator set is installed. APCD with powder feeding section – Stack of height 3 m Above Roof Level. 4. Process Emission: WPB – 26.85 m AGL 5. Process Emission: EB – 26.26 m AGL 6. Process Emission: TSD – 28.8 m AGL
Quantity of fuel required in TPD:	1. 2 no. Boilers of capacity 2 TPH each – HSD @ 116 kg/hr and PNG @ 137 SCM3 /hr each 2. 1 no. Boiler of capacity 0.5 TPH each – HSD @ 29.22 kg/hr and PNG @ 36.30 SCM3 /hr 3. 2 no. DG set of capacity 2000 KVA each – HSD @ 5794 ltr/day. 4. DG set of capacity 500 KVA- HSD @ 7320 ltr/day.
Type of Air Pollution Control Devices to be installed:	1. 2 no. Boilers of capacity 2 TPH each – Stacks of adequate height 2. 1 no. Boiler of capacity 0.5 TPH each – Stack of adequate height 3. 2 no. DG set of capacity 2000 KVA each – Canopy Provided. 4. Process Emission: WPB – Wet Scrubber 5. Process Emission: EB – Wet Scrubber 6. Process Emission: TSD – Dust Collectors (3 Nos.)
Standard to be achieved under Air(Prevention & Control of Pollution) Act, 1981:	As prescribed by the CPCB/MoEF&CC/PPCB, from time to time.


  
 Environmental Engineer (PBIP)  
 for & on behalf of  
 Chief Environmental Engineer (PBIP)

Endst. No.

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

1. Senior Environmental Engineer, Zonal Office-I, Ludhiana.
2. Environmental Engineer, Regional Office-I, Ludhiana.

  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

## A. GENERAL CONDITIONS

1. The industry shall apply for consent of the Board as required under the provision of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 & Authorization under Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, two months before the commissioning of the industry.
2. The industry shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipments etc. which are likely to cause environmental pollution.
3. The Industry shall apply for further extension in the validity of the CTE atleast two months before the expiry of this CTE, if applicable.
4. The industry shall comply with any other conditions laid down or directions issued by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 from time to time.
5. The project has been approved by the Board from pollution angle and the industry shall obtain the approval of site from other concerned departments, if need be.
6. The industry shall get its building plans approved under the provisions of section 3-A of Punjab Factory Rules, 1952
7. The industry shall put up display board indicating the Environment data in the prescribed format at the main entrance gate
8. The industry shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets

### Specifications of the port-holes shall be as under:

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter ( $D_e$ ) shall be calculated from the following equation to determine upstream, downstream distance:-

$$D_e = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.

- ii) The sampling port shall be 7 to 10 cm in diameter

9. The industry shall discharge all gases through a stack of minimum height as specified in the following standards laid down by the Board.

### (i) Stack height for boiler plants

S.No.	Boiler with Steam Generating Capacity	Stack heights
1	Less than 2 ton/hr	9 meters or 2.5 times the height of neighboring building which ever is more
2	More than 2 ton/hr to 5 ton/hr	12 meters
3	More than 5 ton/hr to 10 ton/hr	15 meters
4	More than 10 ton/hr to 15 ton/hr	18 meters
5	More than 15 ton/hr to 20 ton/hr	21 meters
6	More than 20 ton/hr to 25 ton/hr	24 meters

7	More than 25 ton/hr to 30 ton/hr	27 meters
8	More than 30 ton/hr	30 meters or using the formula $H = 14 Q_g 0.3$ or $H = 74 (Q_p) 0.24$ Where $Q_g$ = Quantity of SO <sub>2</sub> in Kg/hr. $Q_p$ = Quantity of particulate matter in Ton/day.

**Note :** Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

Capacity of diesel generating set		Height of the Stack
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt
100-150 KVA	-do-	+ 2.5 mt
150-200 KVA	-do-	+ 3.0 mt
200-250 KVA	-do-	+ 3.5 mt
250-300 KVA	-do-	+ 3.5 mt

For higher KVA rating stack height H (in meter) shall be worked out according to the formula:

$$H = h + 0.2 (KVA) 0.5$$

where h = height of the building in meters where the generator set is installed.

10. The industry shall put up canopy on its DG sets and also provide stack of adequate height as per norms prescribed by the Board and shall ensure the compliance of instructions issued by the Board vide office order no. Admin./SA-2/F.No.783/2011/448 dated 8/6/2010.

11. The industry shall provide flow meters at the source of water supply, at the outlet of effluent treatment plant and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th day of the following month.

12. The industry shall make necessary arrangements for the monitoring of stack emissions and shall get its emissions analyzed from lab approved / authorized by the Board:-

(i) Once in Year for Small Scale Industries.

(ii) Twice/thrice/four time in a Year for Large/Medium Scale Industries

13. The pollution control devices shall be interlocked with the manufacturing process of the industry.

14. The Board reserves the right to revoke this "consent to establish" (NOC) at any time, in case the industry is found violating any of the conditions of this "consent to establish" and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time


15. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per acre along the boundary of the industrial premises.

(iii) Register showing the stock of absorbents and other chemicals to be used for scrubbers.

34. The industry shall ensure that there will not be significant visible dust emissions beyond the property line.

35. The industry shall establish sufficient number of piezometer wells in consultation with the concerned Regional Office, of the Board to monitor the impact on the Ground Water Quantity due to the industrial operations, if applicable.

36. The industry shall provide adequate and appropriate air pollution control devices to contain emissions from handling, transportation and processing of raw material & product of the industry

  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)

## B. SPECIAL CONDITIONS

1. This consent to operate has been granted for manufacturing of Water based paint @ 250000 KL/Year and Emulsion @ 100000 KL/Year, only.
2. The industry shall only manufacture the products and limit their quantities, for which it has been granted consent to operate from the Board. It shall not manufacture any other product without the prior written permission of the Board/ Competent Authority.
3. The industry shall not increase the production capacity of the unit beyond the quantities mentioned in the Environmental Clearance issued to it by SEIAA, Punjab without obtaining revised Environmental Clearance from the Competent Authority..
4. The industry shall comply with the conditions of Environmental Clearance granted to it by the SEIAA, Punjab, vide SEIAA/PB/IND/2021/EC/22 dated 19.01.2022, in true letter & spirit.
5. The industry shall always comply with guidelines issued by PPCB/CPCB for time to time.
6. The industry shall adopt & follow the Lead Free Paint Guidelines in true letter & spirit.
7. The industry shall ensure compliance of SOP issued by CPCB for spent solvent recovery (as & when solvent recovery plant installed with permission from the Board).
8. The industry shall ensure connection of the OCEMS provided with stacks with the PPCB server.
9. The industry will ensure that the CCTV cameras shall always remain connected with the PPCB server.
10. The industry shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986, as per the additional condition imposed in the Environmental Clearance granted to it by the Competent Authority.
11. The industry shall install system to carryout Manual Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions, as per the additional condition imposed in the Environmental Clearance granted to it by the Competent Authority.
12. The industry shall comply with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
13. The industry shall comply with the provisions of Solid Waste Management Rules, 2016.
14. The industry shall comply with the provisions of the Plastic Waste Management Rules, 2016.
15. The industry shall obtain all the statutory approvals/clearances from the concerned departments.
16. This Consent is being issued to the industry based upon the documents/ information submitted by it alongwith the online application form. The Board would be at liberty to take penal action against the industry and its responsible/ concerned person(s) in case information/document is detected as incorrect/false/misleading at any point of time, without any opportunity of Personal Hearing.
17. In case, the industry fails to comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and/or any other environmental law applicable to the project and Rules, Circulars & Directions issued by the Board from time to time, action as deemed fit shall be taken against the industry.

  
Environmental Engineer (PBIP)  
for & on behalf of  
Chief Environmental Engineer (PBIP)



**PUNJAB WATER REGULATION AND DEVELOPMENT AUTHORITY**  
sco 149-152, Sector 17 c, Chandigarh - 160017

**PERMISSION FOR EXTRACTION OF GROUNDWATER**  
(Under The Punjab Groundwater Extraction And Conservation Directions, 2023)

Unit ID:	Permission Number:	Date of Grant of Permission	Valid up to
0850T01071	PWRDA/I/06/2023/L3/44	01.06.2023	31.05.2026

1	Name of Unit:	M/s Grasim Industries Ltd.	
2	Activity of Unit:	Industrial	
3	Address/Location of Unit:	Plot Number B1, D-02(P), Village Dhanansu, District Ludhiana	
		District Ludhiana	PIN:141112
4	Assessment Area (Block):	Ludhiana II	Status: Orange
5	District	Ludhiana	
6	Head Office Address:	M/s Grasim Industries Pvt. Ltd, Aditya Birla Centre, A Wing, 2 <sup>nd</sup> Floor, S.K Ahire Marg, Worli, Mumbai	
			PIN:400030
	Email	manoj.dadhwal@adityabirla.com	
	Phone/Mobile No.	9833681001	8979214555
7	Project Status:	Existing	
8	No. of Existing Tube-Wells	No. of Proposed Tube-Wells	Total Number of Tube-Wells Permitted
	04	0	04
9	Volume of Ground Water Permitted to be Extracted(m <sup>3</sup> /month)	Fresh	Brackish/Saline
		34740	

Note: This permission is granted in terms of the Punjab Groundwater Extraction and Conservation Directions, 2023 notified on 27<sup>th</sup> January, 2023 under section 15 of the Punjab Water Resources (Management and Regulation) Act, 2020 and is subject to the conditions given overleaf.



Dated: 01.06.2023

Place: Chandigarh

*[Signature]*  
01/06/2023  
ਸੀਨੀਅਰ ਮੈਨੇਜਰ (ਪ੍ਰਸ਼ਾਸਨ) ਤੇ ਡਾਇਰੈਕਟਰ  
ਪੰਜਾਬ ਭੂਮੀ ਅਤੇ ਪਾਣੀ ਵਿਭਾਗ, ਚੰਡੀਗੜ੍ਹ

*[Signature]*  
01/06/2023



### Terms and Conditions

- 1) User shall comply with the provisions of the Punjab Water Resources (Management and Regulation) Act, 2020, The Punjab Groundwater Extraction and Conservation Directions, 2023 and other Regulations, Directions and instructions issued by the Authority from time to time.
- 2) The User shall install a water meter of required Specifications at each extraction structure and inform PWRDA along with Model approval Certificate from FCRI /NPL, Calibration Certificate, etc. within three months of issue of this Permission. The water meter shall conform to the technical specifications, performance parameters and connectivity standards, etc. as required by the Authority.
- 3) The User (if required to install piezometer as per Directions) shall install the piezometer of the required specifications within three months of issue of this permission. (refer para 5.2 of the Directions).
- 4) Payment Cycle and Schedule shall be as per para 4.8 of the Directions.
- 5) In case of proposed water extraction structure which is yet to be commissioned, the user will intimate the Authority regarding all the details of the structure within 15 days of energizing of structure.
- 6) This Permission does not absolve the Unit of its obligations to obtain other required statutory and administrative clearances from appropriate Authorities.
- 7) The issue of this Permission does not imply that other statutory or administrative clearances shall necessarily be granted to the unit by the concerned Authorities.
- 8) This Permission is being issued without any prejudice to the orders of any court of law in cases related to groundwater or any other related matters.
- 9) The Authority may inspect the Unit and original documents at any time. In case it is found that any material facts have been concealed or misreported or any material difference is found in the information submitted and the site conditions or documents, the Authority may suspend the permission granted immediately and may cancel or alter the permission after giving a notice to the Unit. This will be without prejudice to any other action that may be taken under the law for supply of wrong information.
- 10) The User is advised to keep on checking the website of the Authority for updates on Directions and instructions on matters related to extraction of groundwater.
- 11) The User shall obtain revised/varied/fresh permission as the case may be, in case there is any change in ground water extraction structure, volume etc, before the aforesaid change is affected or within the time permitted under the Directions.
- 12) A user shall apply for renewal of permission in the required format three months prior to the expiry of permission.

(ਸਹਿਮਤੀ ਦੇ ਨਮੂਨੇ) ਚਮਕੌਰੀ ਭਾਗੀਨਾ  
ਡਿਪਟੀ ਮਾਸਟਰ ਆਫ਼ ਡਰਾਈਨੇਜ ਆਫ਼ ਪੰਜਾਬ





# PUNJAB POLLUTION CONTROL BOARD

Regional Office-1, Focal Point, Phase-5, Ludhiana

Website:- www.ppcb.gov.in



Office Dispatch No :

Registered/Speed Post

Date:

Registration ID: R21LDH1979056

Application No : 24226798

To,

Harikrishna Agarwal,  
Aditya Birla Centre, SK Ahire Marg Worli, Mumbai  
Ludhiana east, Ludhiana i, 400030

Subject: Authorization under Bio-Medical Waste Management Rules, 2016 framed under Environment (Protection) Act, 1986 for [Generation, Storage] of Bio-Medical Waste.

With reference to your application for obtaining Authorization under Bio-Medical Waste Management Rules, 2016 framed under Environment (Protection) Act, 1986, you are, hereby authorized for handling/ managing Bio-Medical Waste under Bio-Medical Waste Management Rules, 2016 as per the details specified in this authorization.

## 1. Particulars of Applicant (Occupier/Operator)

Name of Applicant (Occupier/Operator)	Harikrishna Agarwal
Designation :	Occupier
Correspondent Address :	Harikrishna Agarwal, Aditya Birla Centre, SK Ahire Marg Worli, Mumbai Ludhiana-east, Ludhiana i, 400030
Mobile Number :	8979214555
Landline Number :	
Fax Number :	
Email-ID :	sandeep.sengar@adityabirla.com

## 2. Particulars of HCF/CBWTF

Name of HCF/CBWTF	Grasim industries limited
Address of HCF/CBWTF premises	Grasim industries limited Plot nos. b-1, d-02 (p), hi-tech valley, village dhanansu, district-ludhiana, punjab
Mobile Number :	8979214555
Facility Type and Subtype	HCF (Non-bedded-Any-Other( Non-Bedded))
Ownership	Public Limited Company
Number of Beds/Dental Chairs (for HCF)	0.
No. of HCF covered(for CBWTFs)	-
No. of Beds covered	-
No of Beds	0
Area and Distance Covered by CBWTF	-

Mode of Transportation of BMW

Common Facility Vehicle

### 3. Particulars of Authorization

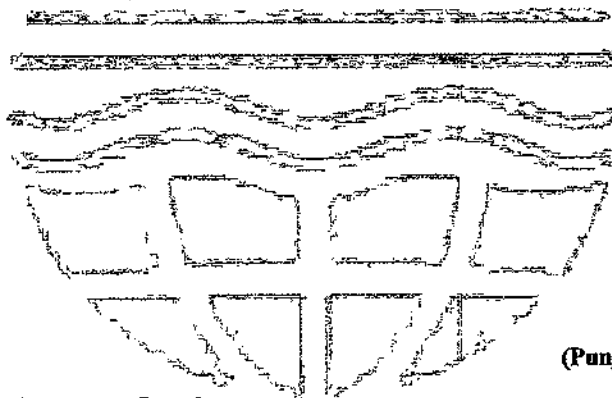
Authorization No.	BMW/Fresh/LDH1/2023/24226798
Date of Issue	29/12/2023
Date of Expiry	-
Authorization Type	Fresh
Activities authorized	[Generation, Storage]

### 4. Particulars of Bio-Medical Waste

Waste category	Quantity permitted for handling	Unit
Yellow	0.45	kg/day
Red	0.15	kg/day
White(Translucent)	0.10	kg/day
Blue	0.5	kg/day

5. The HCE/CBWTF shall discharge its effluent after treatment as prescribed under the Rules.

6. The Authorization is subject to the Terms and Conditions as specified in this Authorization and also to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.



*[Signature]*

30/12/2023

(Kanwaldeep Kaur)  
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

*[Signature]*

30/12/2023

(Kanwaldeep Kaur)  
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

## TERMS AND CONDITIONS

### A. GENERAL CONDITIONS

1. This authorization is issued for \_\_\_\_\_ number of beds. For any increase in number of beds, the applicant shall obtain prior permission of the Board.
2. The Medical Institution / Health Care Facility shall apply for the renewal of authorization at least 2 months before the expiry of this authorization.
3. The Medical Institution / Health Care Facility shall comply with the provisions of the Environment (Protection) Act, 1986 as amended from time to time and the rules made there under.
4. The authorization and all relevant records shall be produced for inspection on the request of an officer of prescribed authority.
5. The HCF shall take all necessary steps to ensure that bio-medical waste is handled without any adverse effect to human health and the environment and in accordance with these rules;
6. The HCF shall make a provision within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in colored bags or containers in the manner as specified in Schedule I, to ensure that there shall be no secondary handling, pilferage of recyclables or inadvertent scattering or spillage by animals and the bio-medical waste from such place or premises shall be directly transported in the manner as prescribed in these rules to the common bio-medical waste treatment facility or for the appropriate treatment and disposal, as the case may be, in the manner as prescribed in Schedule I.
7. The HCF shall pre-treat the laboratory waste, microbiological waste, blood samples and blood bags through autoclaving/microwaving and then sent to the common bio-medical waste treatment facility for final disposal. The HCF shall maintain a logbook of operation of Autoclave.
8. The HCF shall phase out use of chlorinated plastic bags, gloves and blood bags as mentioned in the Rules;
9. In case the HCF purchase color coded bag from open market, it shall get the testing certificate from CIPET Lab, Amritsar regarding absence of chlorinated material in it. However, if it is procured from CBWTF operator, the HCF shall obtain the test certificate from CBWTF operator.
10. The HCF shall dispose of general waste other than bio-medical waste in green bin.
11. The HCF shall not dispose bio-medical waste with municipal solid waste;
12. The HCF shall provide training to all its health care workers and others, involved in handling of bio medical waste at the time of induction and thereafter at least once every year and the details of training programmes conducted, number of personnel trained and number of personnel not undergone any training shall be provided in the Annual Report;
13. The HCF shall immunise all its health care workers and others, involved in handling of bio-medical waste for protection against diseases including Hepatitis B and Tetanus that are likely to be transmitted by handling of bio-medical waste, in the manner as prescribed in the National Immunisation Policy or the guidelines of the Ministry of Health and Family Welfare issued from time to time;
14. The HCF shall ensure occupational safety of all its health care workers and others involved in handling of biomedical waste by providing appropriate and adequate personal protective equipments;
15. The HCF shall conduct health check up at the time of induction and at least once in a year for all its health care workers and others involved in handling of bio- medical waste and maintain the records for the same;
16. The HCF shall ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralisation prior to mixing with other effluent generated from health care facilities;
17. The HCF shall ensure treatment and disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974 ( 6 of 1974).
18. The HCF shall obtain consents under the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.
19. The HCF shall maintain and update on day to day basis the bio-medical waste management register and display the monthly record on its website according to the bio-medical waste generated in terms of category and colour coding as specified in Schedule I. All the record shall be subject to inspection and verification by the Prescribed Authority /authorized person at any time. The record shall be maintained for a period of 5 years.
20. The HCF shall report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto, (including nil report) in Form I to the prescribed authority within 24 hours and also along with the annual report;

21. The HCF shall submit Annual Report in Form-IV as per Rule 13 by 30th June every year to the Board. The HCF shall make available the annual report on its web-site and all the health care facilities shall make own website within two years w.e.f 28.03.2016.
22. The HCF shall ensure that Untreated human anatomical waste, animal anatomical waste, soiled waste and, biotechnology waste shall not be stored beyond a period of forty  $1\frac{1}{2}$  eight hours: Provided that in case for any reason it becomes necessary to store such waste beyond such a period, the occupier shall take appropriate measures to ensure that the waste does not adversely affect human health and the environment and inform the prescribed authority along with the reasons for doing so.
23. The HCF shall inform the prescribed authority immediately in case the operator of a facility does not collect the bio-medical waste within the intended time or as per the agreed time;
24. The HCF shall establish a system to review and monitor the activities related to bio-medical waste management, either through an existing committee or by forming a new committee and the Committee shall meet once in every six months and the record of the minutes of the meetings of this committee shall be submitted along with the annual report to the prescribed authority and the healthcare establishments having less than thirty beds shall designate a qualified person to review and monitor the activities relating to bio-medical waste management within that establishment and submit the annual report;
25. The occupier of the HCF shall maintain proper housekeeping in the premises where the bio-medical wastes are handled.
26. The HCF is required to set up system/equipments for requisite segregation, collection, storage and pre-treatment of bio-medical waste in conformance to the provisions of Bio-Medical Waste (Management) Rules, 2016.
27. The Containers/ Bags used for segregation and disposal of waste shall be labeled in accordance with schedule- IV (Part-A).
28. The HCF shall segregate the bio-medical waste collected in the container bags at the point of generation in accordance with Schedule-I prior to storage, transportation, treatment and disposal.
29. The HCF shall hand-over segregated waste as per Schedule-I to common bio-medical waste treatment facility for treatment, processing and final disposal.
30. The HCF shall paste Bar-Code Stickers on respective color-coded bags, puncture proof containers and cardboard box before disposal to CBWTF.
31. The HCF shall ensure treatment and disposal of waste in accordance with Schedule I and in compliance with the standards provided in Schedule-II.
32. The HCF shall phase-out use of mercury based instruments. The handling and disposal of all mercury waste and lead waste shall be in accordance with the respective rules and regulations.
33. The occupier of the HCF will be liable for action under section 5 and section 15 of the Environment (Protection) Act, 1986, in case of any violation.
34. The HCF shall comply with the standards and specifications as per Bio-Medical Waste Management Rules, 2016.
35. The HCF shall give its bio-medical waste only to the authorized area common bio-medical waste treatment facility who has valid authorization of the prescribed authority.
36. The HCF will have to make its own arrangement afresh in case the authorization of the common facility to whom it has entered a MOU is revoked, by the Prescribed Authority.
37. The occupier of the HCF shall not change or alter either the quality or the quantity or the rate of discharge of liquid/emission or temperature or the route of discharge without prior written permission from the Board.
38. The occupier of the HCF, its heirs, legal representatives etc., shall have no claim whatsoever to the continuation or renewal of this authorization after the expiry of the authorization.
39. The authorized person shall intimate Board prior to closing down the facility.
40. The HCF shall not rent, sell, transfer or otherwise transport the bio-medical waste without prior permission from the Board.
41. Any unauthorized change in personnel/equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
42. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of the authorization without any prior notice.

#### B. SPECIAL CONDITIONS

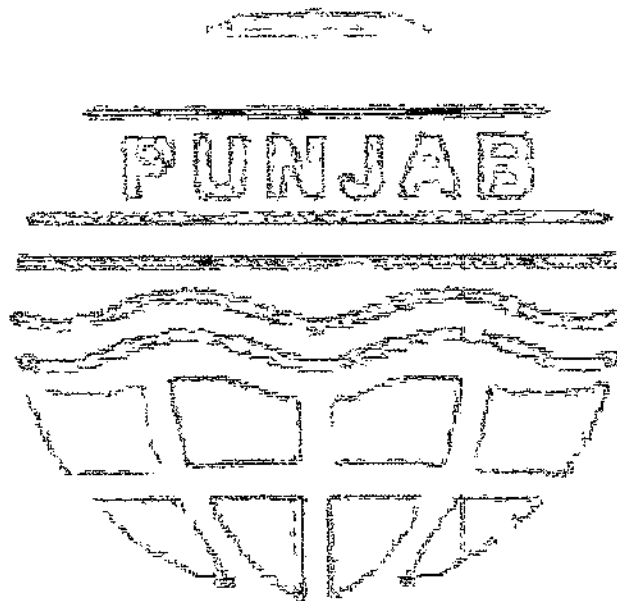
*Sendy*

30/12/2023

( Kanwaldeep Kaur )  
Environmental Engineer

For & on behalf  
of

(Punjab Pollution Control Board)



"This is computer generated document from OCMMS by PPCB"

Grasim industries limited, Plot nos. b-1, d-02 (p), hi-tech valley, village dhanansu, district-ludhiana, punjab, Ludhiana 141112

Page No.:- 5



Ref: Grasim/LOH/645/2024/07

Date: 24.07.2024

To,

The Deputy Director of Factories (Industrial Circle-3),  
5th Floor, Municipal Building Block - II  
Bhilai.

Subject: Re-admission of Schedule - 7 (Information for The Notification of SPS) as per The  
Manufacture, Storage & Import of Hazardous Chemical Rules, 1989

Dear Sir,

We are hereby re-submitting to you Schedule - 7 (Information for The Notification of SPS) As per  
The Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 along with the Re-admission duty  
signed by Approved Competent person under factories Act

Kindly acknowledge the same.

Thanking you,  
For Grasim Industries Limited  
Birla Pulp Division

Authorized Signatory

CC: The Director of Factories, Labor Bhawan, SAS Nagar (Mahal)

Received  
24/07/2024



Grasim Industries Limited

Birla Pulp Division

Plot No. 107 & 108, High Tech Cycle Valley, Durgam, Lucknow - 226 001, U.P.  
www.grasim.co.in



Ref: Grasim/IDH/EHS/2024/08

Date: 24.02.2024

To:

The Deputy Director of Factories (Ludhiana Circle)  
Gill Road, Municipal Building Block-B  
Ludhiana

Reference: Letter No 48 dated 13.02.2024

Subject: Re-submission of Schedule-8 (Safety Report) as per The Manufacture, Storage & Import of Hazardous Chemical Rules, 1989

Dear Sir,

We are hereby re-submitting to you Schedule-8 (Safety Report) As per The Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 along with the annexures duly signed by approved competent person under factories act.

Kindly acknowledge the same

Thanking you,  
For Grasim Industries Limited  
Bika Pains Division

Authorized Signatory

CC: The Director, of Factories, Labor Bhawan, SAS Nagar (Mohali)

Received  
of 23/02/24  
महाराष्ट्र



Grasim Industries Limited  
(Bika Pains Division)

Singhania Road, G.D. 63 02, High Tech Cycle Valley, Gurgaon, Haryana - 141112, Punjab  
W/ www.adityabirla.com



The Address: P.O. Box 904, D-177, High Street, Galle, Sri Lanka. Telephone: +94 91 242 4242  
 W: [www.adcslab.com](http://www.adcslab.com)



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



ULR No. :	TC181824000082804F	Test Report No. :	NAL280324NA024
Type of Sample :	Ambient Air	Date of Reporting :	03/04/2024
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D, 02 P, Pandurang Budhkar Marg, HI Tech Cycle Valley, Dhanpur, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt: 14/02/2024
		Customer reference No. (If any)	NA
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)
Date of Sampling	26/03/2024 To 27/03/2024	Date of Receipt of Sample	28/03/2024
Sampling Location	ETP Plant	Period of Analysis	28/03/2024 To 03/04/2024
Standard/ Specification	National Ambient Air Quality G.S.R.No.8-29016/2019/PCA, dated 18 Nov, 2009	Environmental Conditions	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

## RESULTS

### 1. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1.	Respirable Suspended Particulate Matter as PM10	µg/m <sup>3</sup>	85	100	5	IS 5182 (Part 23)
2.	Particulate Matter as PM2.5	µg/m <sup>3</sup>	50	60	5	IS 5182 (Part 24)
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	14	80	5	IS 5182 (Part 2)
4.	Oxides of Nitrogen	µg/m <sup>3</sup>	27	80	7	IS 5182 (Part 6)
5.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	20	400	5	IS 5182 (Part 25)
6.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	26	180	5	IS 5182 (Part 9)
7.	Carbon Monoxide as CO	mg/m <sup>3</sup>	0.68	4	0.1	IS 5182 (Part 10) NDIR method
8.	Lead as Pb	µg/m <sup>3</sup>	BDL	1.0	0.04	USEPA Method 10-3.4
9.	Arsenic as As	ng/m <sup>3</sup>	BDL	6	4	USEPA Method 10-3.4
10.	Nickel as Ni	ng/m <sup>3</sup>	BDL	20	4	USEPA Method 10-3.4
11.	Benzo Pyrene (BaP), Particulate Phase Only	ng/m <sup>3</sup>	BDL	1	0.3	IS 5182 (Part 12)

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions: Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT

ULR No. :	NA	Test Report No. :	NAIL280324NA024/A
Type of Sample :	Ambient Air	Date of Reporting :	03/04/2024
Customer :	Grasim Industries Ltd. (Birla Palots Division) Plot Nos. B-1 and D-02 B, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date :	490003247 Dt.: 14/02/2024
		Customer reference No. (if any) :	NA
Sampling Protocol :	IS 5182, Et-MSP-7.3	Mode of Collection of Sample :	Mr. Abhishek (Eco Rep.)
Date of Sampling :	26/03/2024 To 27/03/2024	Date of Receipt of Sample :	28/03/2024
Sampling Location :	ETP Plant	Period of Analysis :	28/03/2024 To 03/04/2024
Standard / Specification :	National Ambient Air Quality: G.S.B. No. B-29016/20/15/CI-L dated 18 Nov, 2009	Environmental Conditions :	Partially cloudy weather
Testing Location :	On Site & Permanent facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Benzene	µg/m <sup>3</sup>	BDL	5	5	IS 5182 (Part 11)

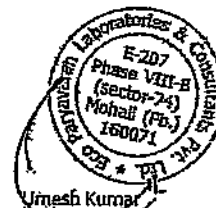
Remarks : This test report is the part of Test Report No. NAIL280324NA024.

OTHER INFORMATION : ULR: Unique Lab Report, BDL: Below Detection Level, N/A: Not Applicable

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, N/A: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-3)

\*\*End of Report\*\*



Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



TC-11848

ULR No. :	TE1181824000002587F	Test Report No. :	NAIL210324NA030
Type of Sample :	Ambient Air	Date of Reporting :	28/03/2024
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B-1 and D-02 P, Pandurang Budhikar Marg, Hi Tech Cyber Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt: 14.02.2024
		Customer reference No. (if any)	NA
Sampling Protocol :	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)
Date of Sampling	19/03/2024 To 20/03/2024	Date of Receipt of Sample	21/03/2024
Sampling Location	RMG Area	Period of Analysis	21/03/2024 To 28/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R.No.B-29016/2019/PCI-L dated 18 Nov, 2009	Environmental Conditions	Clear Sky IV
Testing Location	On Site & Permanent Facility		

## RESULTS

### 1. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m <sup>3</sup>	88	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	50	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	12	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m <sup>3</sup>	26	80	7	IS 5182 (Part 6)
5	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	19	400	5	IS 5182 (Part 25)
6	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	28	180	5	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m <sup>3</sup>	0.77	4	0.1	IS 5182 (Part 10) NDIR method
8	Lead as Pb	µg/m <sup>3</sup>	BDL	1.0	0.04	USEPA Method IO-3.4
9	Arsenic as As	ng/m <sup>3</sup>	BDL	6	4	USEPA Method IO-3.4
10	Nickel as Ni	ng/m <sup>3</sup>	BDL	20	4	USEPA Method IO-3.4
11	Benzo Pyrene (BaP), Particulate Phase Only	ng/m <sup>3</sup>	BDL	1	0.3	IS 5182 (Part 12)

Remarks : NA

### OTHER INFORMATION

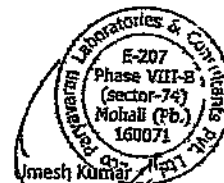
Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical

Ambient Air - EL-FMT-7.8.2-AA

Page No. 1/1

ECOBHAWAN

E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

0172 4616205 0701203100 contact@ecoparyavaran.com



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT

ULR No. :	NA	Test Report No. :	NAIL210324NA030/A
Type of Sample :	Ambient Air	Date of Reporting :	28/03/2024
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B-1 and D-02 P, Pandurang Budhkar Marg, III Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt:14.02.2024
		Customer reference No. (If any)	NA
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)
Date of Sampling	19/03/2024 To 20/03/2024	Date of Receipt of Sample	21/03/2024
Sampling Location	RMG Area	Period of Analysis	21/03/2024 To 28/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R. No. B-29016/20/19/PCI-L dated 18 Nov. 2009	Environmental Conditions	Clear Sky, IVI
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Benzene	µg/m3	BDL	S	S	IS 5182 (Part 11)

Remarks : This report is the part of Test Report No. NAIL210324NA030.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, N/A: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



ULR No. :	TC1181824000002588F	Test Report No. :	NAIL210324NA031
Type of Sample :	Ambient Air	Date of Reporting :	28/03/2024
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B-1 and D-02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt:14.02.2024
		Customer reference No. (If any)	NA
Sampling Protocol :	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)
Date of Sampling	19/03/2024 To 20/03/2024	Date of Receipt of Sample	21/03/2024
Sampling Location :	PMG Area	Period of Analysis	21/03/2024 to 28/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R. No. E-29016/2019/PC-I dated 18 Nov, 2009	Environmental Conditions	Clear Sky, 1VI
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	85	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	47	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	11	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	27	80	7	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	20	400	5	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	28	180	5	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.72	4	0.1	IS 5182 (Part 10) NDIR method
8	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4
9	Arsenic as As	ng/m3	BDL	6	4	USEPA Method IO-3.4
10	Nickel as Ni	ng/m3	BDL	20	4	USEPA Method IO-3.4
11	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL	1	0.3	IS 5182 (Part 12)

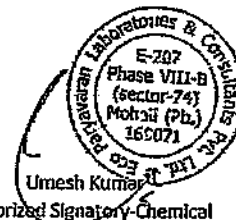
Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Ambient Air - EL-FMT-7.8.2 - AA

Page No. 1/1



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT

ULR No. :	NA	Test Report No. :	NAIL210324NA031/A
Type of Sample:	Ambient Air	Date of Reporting :	28/03/2024
Customer:	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B-1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cyber Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt:14.02.2024
Sampling Protocol:	IS 5182, EL-MSP-7.3	Customer reference No. (if any)	NA
Date of Sampling	19/03/2024 To 20/03/2024	Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)
Sampling Location:	PMG Area	Date of Receipt of Sample	21/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R. No. B-29016/2019/PC-I dated 18 Nov, 2009	Period of Analysis	21/03/2024 To 28/03/2024
Testing Location:	On-Site & Permanent Facility	Environmental Conditions	Clear Sky

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Benzene	µg/m <sup>3</sup>	BDL	5	5	IS 5182 (Part-11)

Remarks : This report is the part of Test Report No. NAIL210324NA031.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Omish Kumar  
Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



ULR No. : TC1181824000002306F		Test Report No. : NAIL140324NA059	
Type of Sample : Ambient Air		Date of Reporting : 20/03/2024	
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900803247 Dt.: 14/02/2024
		Customer reference No. (If any)	NA
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Bhajanpreet (Eco Rep.)
Date of Sampling	13/03/2024 To 14/03/2024	Date of Receipt of Sample	14/03/2024
Sampling Location	Near Main Gate	Period of Analysis	14/03/2024 To 20/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R. No. B-29016/20/19/PCI-L dated 18 Nov, 2009	Environmental Conditions	Partially cloudy weather; Drizzling for approx 1 hrs
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	75	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	38	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	10	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	32	80	7	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	27	400	5	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	19	180	5	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.52	4	0.1	IS 5182 (Part 10) NDIR method
8	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4
9	Arsenic as As	ng/m3	BDL	6	4	USEPA Method IO-3.4
10	Nickel as Ni	ng/m3	BDL	20	4	USEPA Method IO-3.4
11	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL	1	0.3	IS 5182 (Part 12)

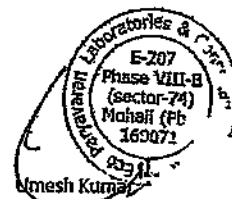
Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical

Ambient Air - EL-FMT-7.3.2-AA

Page No-1/1

**ECO HAWANI** E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071





# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT

ULR No.: NA		Test Report No.: NAIL140324NA059/A	
Type of Sample: Ambient Air		Date of Reporting: 20/03/2024	
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1, and D-02 P, Pandurang Budhkar Marg, HI Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt.: 14/02/2024
		Customer reference No. (if any)	NA
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Bhajanpreet (Eco Rep.)
Date of Sampling	13/03/2024 To 14/03/2024	Date of Receipt of Sample	14/03/2024
Sampling Location	Near Main Gate	Period of Analysis	14/03/2024 To 20/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-I dated 18 Nov, 2009	Environmental Conditions	Partially cloudy weather; Drizzling for approx 1 hrs
Testing Location	On Site & Permanent Facility		

## RESULTS

### 1. Chemical Testing

#### 2. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1.	Benzene	µg/m <sup>3</sup>	BDL	5	5	IS 5182 (Part 11)

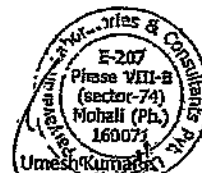
Remarks: This report is the part of Test Report No. NAIL140324NA059.

#### OTHER INFORMATION

Abbreviation: ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions: Please refer terms and conditions on backside of Test Report (Page-3)

\*\*End of Report\*\*



Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



ULR No. : TC18182400002307F		Test Report No. : NAL140324NA060	
Type of Sample : Ambient Air		Date of Reporting : 20/03/2024	
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B-1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt.: 14/02/2024
		Customer reference No. (if any)	NA
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Mr. Bhajanpreet (Eco Rep.)
Date of Sampling	13/03/2024 To 14/03/2024	Date of Receipt of Sample	14/03/2024
Sampling Location	ETP Area	Period of Analysis	14/03/2024 To 20/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-I, dated 18-Nov, 2009	Environmental Conditions	Partially cloudy weather; Drizzling for approx 1 hrs
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	71	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	36	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	9	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	36	80	7	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	26	400	5	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	20	180	5	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.62	4	0.1	IS 5182 (Part 10) NDIR method
8	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4
9	Arsenic as As	ng/m3	BDL	6	4	USEPA Method IO-3.4
10	Nickel as Ni	ng/m3	BDL	20	4	USEPA Method IO-3.4
11	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL	1	0.3	IS 5182 (Part 12)

Remarks : NA

#### OTHER INFORMATION

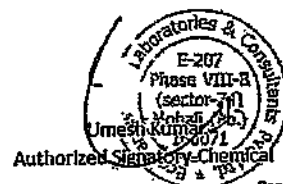
Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*





# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT

ULR No. : NA		Test Report No. : NAIL140324NA060/A	
Type of Sample : Ambient Air		Date of Reporting : 20/03/2024	
Customer	Gigam Industries Ltd. (Bida Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, HI Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt.: 14/02/2024
		Customer reference No. (if any)	NA
Sampling Protocol	IS 5182, EL-MSP-7:3	Mode of Collection of Sample	Mr. Bhajanpreet (Eco Rep.)
Date of Sampling	13/03/2024 To 14/03/2024	Date of Receipt of Sample	14/03/2024
Sampling Location	ETP Area	Period of Analysis	14/03/2024 To 20/03/2024
Standard/ Specification	National Ambient Air Quality: G.S.R. No. B-29016/2019/PC-I. dated 18 Nov, 2009	Environmental Conditions	Partially cloudy weather, Drizzling for approx 1 hrs
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Benzene	µg/m <sup>3</sup>	BDL	5	5	IS 5182 (Part 11)

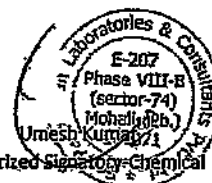
Remarks : This report is the part of Test Report No. NAIL140324NA060.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

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



## Grasim Industries Ltd

## Details of Stack with APCDs

Sl. No.	Air pollution Source / Stack Attached to	Capacity	Type of Fuel	Fuel Consumption Rate	Stack No.	Stack Height from Ground (mts)	Height of Adjoining Building (mts)	Stack Height above Building roof (mts)	Pollution Control Device
1	DG Set No. 1	2000KVA	DIESEL	305 ltr/hr	1	30	7.53	22.47	Stack Height
2	DG Set No. 2	2000KVA	DIESEL	305 ltr/hr	2	30	7.53	22.47	Stack Height
3	Boiler No. 1	2 Tons/hr	Diesel/Gas	ISO- 150 Kg/Hr - NG- 2375 CM <sup>3</sup> /hr	3	30	8.37	21.63	Stack Height
4	Boiler No. 2	2 Tons/hr	Diesel/Gas	ISO- 150 Kg/Hr - NG- 2375 CM <sup>3</sup> /hr	4	30	8.37	21.63	Stack Height
5	Boiler No. 3 (HMT)	0.5 Tons/hr	Diesel/Gas	ISO- 29.23 Kg/Hr NG- 36.30 CM <sup>3</sup> /hr	5	30	4.5	25.5	Stack Height
6	Scrubber No. 1 (WPS)	3400 NM <sup>3</sup> /hr	NA	NA	6	26.26	20.45	6.4	Wet Scrubber attached to TSD
7	Scrubber No. 2 (ES)	240 NM <sup>3</sup> /hr	NA	NA	7	26.26	20.45	5.81	Wet Scrubber with ACP attached to Reactors
8	Dust Collector No. 1	1330 NM <sup>3</sup> /hr	NA	NA	8	25.8	20.45	4.95	Bag Filter attached TSD
9	Dust Collector No. 2	1330 NM <sup>3</sup> /hr	NA	NA					
10	Dust Collector No. 3	1330 NM <sup>3</sup> /hr	NA	NA					



# HARYANA TEST HOUSE

## & Consultancy Services

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An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

## TEST REPORT

### Issued To:

Grasim Industries Limited (Birla Paints Division)  
Plot Nos B.1 and D.02 B, Pandurang Budhkar Marg, Hi Tech  
Cycle Valley, Dhanansu, Ludhiana (PB) 141111

Report No. : HTH/WT/230513003  
ULR No. : TC781123200001086F  
Party's Ref No. : Nil

Booking Date : 13/05/2023  
Period of Testing : 13/05/2023 To 18/05/2023  
Reporting Date : 18/05/2023

Sample Description : Borewell Water Sample  
Type of Industry : Construction  
Date of sampling : 12/05/2023  
Date of receipt of sample : 13/05/2023  
Environmental Condition : Temp. 34°C & Humidity 31%  
Sampling Reference Protocol : IS 1622-1981

Sample Name : Borewell Water (B-1)  
Sample quantity : 15 Ltr. + 250 ml in sterilized bottle  
Sample Location : Borewell No. 1  
Purpose of analysis : Monitoring  
Sampling Done by : By our Lab. Representative

REFERENCE TO PROTOCOL : IS 10500:2012 (Amend No. 4 Nov. 2021)

### TEST RESULTS

S.N.	Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
<b>Discipline - Chemical, Group - Water</b>						
<b>Organoleptic and Physical Parameter's</b>						
1	Colour (Hazen)		1.0	5 Max.	15 Max.	IS 3025 (P-4)-2021
2	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (P-5)-2018
3	pH		7.7	6.5-8.5	No Relaxation	IS 3025 (P-11)-1983
4	Taste		Agreeable	Agreeable	Agreeable	IS 3025 (P-7 & 8)-1984
5	Turbidity (NTU)		<1.0	1 Max.	5 Max.	IS 3025 (P-10)-1984
6	Total Dissolved Solids (TDS)	mg/l	378.0	500 Max.	2000 Max.	IS 3025 (P-16)-1984
<b>General parameters Concerning Substances Undesirable In excessive amounts</b>						
1	Total Ammonia (as N)	mg/l	BLQ (LOQ: 0.2)	0.5 Max.	No Relaxation	IS 3025 (P-34)-2021
2	Anionic Detergents (as MBAS)	mg/l	BLQ (LOQ: 0.05)	0.2 Max.	1.0 Max.	Annex K of IS 13428
3	Calcium (as Ca)	mg/l	49.3	75 Max.	200 Max.	IS 3025 (P-40)-1991
4	Chloramines (as Cl <sub>2</sub> )	mg/l	BLQ (LOQ: 0.2)	4.0 Max.	No Relaxation	IS 3025 (P-26)-2021
5	Chloride (as Cl)	mg/l	11.0	250 Max.	1000 Max.	IS 3025 (P-32)-1988
6	Fluoride (as F)	mg/l	0.55	1.0 Max.	1.5 Max.	APHA (4500 F)
7	Free Residual Chlorine	mg/l	BLQ (LOQ: 0.1)	0.2 Min.	1 Min.	IS 3025 (P-26)-2021
8	Magnesium (as Mg)	mg/l	30.44	30 Max.	100 Max.	IS 3025 (P-46)-1994
9	Mineral oil	mg/l	BLQ (LOQ: 0.5)	1.0 Max.	No Relaxation	IS 3025 (P-39)-2021
10	Nitrate (as NO <sub>3</sub> )	mg/l	BLQ (LOQ: 1.0)	45 Max.	No Relaxation	IS 3025 (P-34)-1988
11	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	BLQ (LOQ: 0.0004)	0.001 Max.	0.002 Max.	IS 3025 (P-43)-1992
12	Sulphate (as SO <sub>4</sub> )	mg/l	34.8	200 Max.	400 Max.	IS 3025 (P-24)-1986
13	Sulphide (as H <sub>2</sub> S)	mg/l	BLQ (LOQ: 0.05)	0.05 Max.	No Relaxation	IS 3025 (P-29)-1986
14	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	316.0	200 Max.	600 Max.	IS 3025 (P-23)-1986
15	Total Hardness (as CaCO <sub>3</sub> )	mg/l	248.0	200 Max.	600 Max.	IS 3025 (P-21)-2009
16	Cyanide (as CN)	mg/l	BLQ (LOQ: 0.02)	0.05 Max.	No Relaxation	IS 3025 (P-27)-2021
<b>Discipline - Chemical, Group - Residue in Water</b>						
<b>METALS</b>						
1	Aluminium (as Al)	mg/l	BLQ (LOQ: 0.010)	0.03 Max.	0.2 Max.	HTH/QF/7.2/2/CP-01.SOP



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## TEST REPORT

### Issued To:

Grasim Industries Limited (Birla Paints Division)  
Plot Nos B.1 and D 02.P, Pandurang Budhkar Marg, Hi Tech  
Cycle Valley, Dhanansu, Ludhiana (PB) 141111

Report No. : HTH/WT/230513003  
ULR No. : TC781123200001086F  
Party's Ref No. : Nil

Booking Date : 13/05/2023  
Period of Testing : 13/05/2023 to 18/05/2023  
Reporting Date : 18/05/2023

### TEST RESULTS

S.N.	Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
1	Barium (as Ba)	mg/l	0.435	0.7 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
2	Boron (as B)	mg/l	0.125	0.5 Max.	2.4 Max.	NO-18 HTH/QF/7.2/2/ICP-01,SOP
3	Copper (as Cu)	mg/l	BLQ(LOQ:0.001)	0.05 Max.	1.5 Max.	NO-18 HTH/QF/7.2/2/ICP-01,SOP
4	Iron (as Fe)	mg/l	BLQ(LOQ:0.050)	1.0 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
5	Manganese (as Mn)	mg/l	0.044	0.1 Max.	0.3 Max.	NO-18 HTH/QF/7.2/2/ICP-01,SOP
6	Selenium (as Se)	mg/l	BLQ(LOQ:0.005)	0.01 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
7	Silver (as Ag)	mg/l	BLQ(LOQ:0.001)	0.1 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
8	Zinc (as Zn)	mg/l	BLQ(LOQ:0.05)	5.0 Max.	15 Max.	NO-18 HTH/QF/7.2/2/ICP-01,SOP
<b>TOXIC SUBSTANCES</b>						
1	Cadmium (as Cd)	mg/l	BLQ(LOQ:0.001)	0.003 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
2	Lead (as Pb)	mg/l	BLQ(LOQ:0.001)	0.01 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
3	Mercury (as Hg)	mg/l	BLQ(LOQ:0.0005)	0.001 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
4	Molybdenum (as Mo)	mg/l	0.003	0.07 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
5	Nickel (as Ni)	mg/l	BLQ(LOQ:0.001)	0.02 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
6	Total Arsenic (as As)	mg/l	BLQ(LOQ:0.001)	0.01 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
7	Total Chromium (as Cr)	mg/l	BLQ(LOQ:0.001)	0.05 Max.	No Relaxation	NO-18 HTH/QF/7.2/2/ICP-01,SOP
8	Polychlorinated biphenyl (PCB)	mg/l	BLQ(LOQ:0.00005)	0.0005 Max.	No Relaxation	NO-18 APHA 6630:2012
9	Polynuclear Aromatic Hydrocarbons (PAH)	mg/l	BLQ(LOQ:0.00005)	0.0001 Max.	No Relaxation	APHA 6440:2012
10	Uranium	mg/l	0.027	0.03 Max.	No Relaxation	IS 3025(P:65):2014
<b>Residual Pesticides</b>						
1	Alachlor	µg/l	BLQ(LOQ:0.01)	20 Max.	No Relaxation	USEPA 525.2

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## TEST REPORT

### Issued To:

Grasim Industries Limited (Birla Paints Division)  
Plot Nos B-1 and D-02 P, Pandurang Budhkar Marg, Hi Tech  
Cycle Valley, Dhananšu, Ludhiana (PB) 141111

Report No. : HTH/WT/230519003  
ULR No. : TC781123200001086F  
Party's Ref No. : Nil  
Booking Date : 13/05/2023  
Period of Testing : 13/05/2023 To 18/05/2023  
Reporting Date : 18/05/2023

### TEST RESULTS

S.N.	Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
2	Atrazine	µg/l	BLQ (LOQ:0.01)	2.0 Max.	No Relaxation	USEPA 525.2
3	Aldrin	µg/l	BLQ (LOQ:0.01)	0.03 Max.	No Relaxation	USEPA 508
4	Dieldrin	µg/l	BLQ (LOQ:0.01)	0.03 Max.	No Relaxation	USEPA 508
5	Alpha - HCH	µg/l	BLQ (LOQ:0.01)	0.01 Max.	No Relaxation	USEPA 508
6	Beta - HCH	µg/l	BLQ (LOQ:0.01)	0.04 Max.	No Relaxation	USEPA 508
7	Gamma - HCH	µg/l	BLQ (LOQ:0.01)	2.0 Max.	No Relaxation	USEPA 508
8	Delta - HCH	µg/l	BLQ (LOQ:0.01)	0.04 Max.	No Relaxation	USEPA 508
9	Butachlor	µg/l	BLQ (LOQ:0.01)	125 Max.	No Relaxation	USEPA 525.2
10	Chlorpyrifos	µg/l	BLQ (LOQ:0.01)	30 Max.	No Relaxation	USEPA 525.2
11	DDT (o,p and p,p - isomer of DDT, DDE and DDD)	µg/l	BLQ (LOQ:0.01)	1.0 Max.	No Relaxation	USEPA 508
12	O,P-DDT	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
13	P,P-DDT	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
14	O,P-DDE	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
15	P,P-DDE	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
16	O,P-DDD	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
17	P,P-DDD	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
18	Endosulphan (Alpha and Beta and Sulphate)	µg/l	BLQ (LOQ:0.01)	0.4 Max.	No Relaxation	USEPA 508
19	Alpha - Endosulphan	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
20	Beta - Endosulphan	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
21	Endosulphan Sulphate	µg/l	BLQ (LOQ:0.01)	-	No Relaxation	USEPA 508
22	Ethion	µg/l	BLQ (LOQ:0.01)	3.0 Max.	No Relaxation	USEPA 1657 A
23	Isoproturon	µg/l	BLQ (LOQ:0.01)	9.0 Max.	No Relaxation	USEPA 532
24	Malathion	µg/l	BLQ (LOQ:0.01)	190.0 Max.	No Relaxation	USEPA 8141 A
25	Methyl Parathion	µg/l	BLQ (LOQ:0.01)	0.3 Max.	No Relaxation	USEPA 8141 A
26	Monocrotophos	µg/l	BLQ (LOQ:0.01)	1.0 Max.	No Relaxation	USEPA 8141 A
27	Phorate	µg/l	BLQ (LOQ:0.01)	2.0 Max.	No Relaxation	USEPA 8141 A
28	2,4-D	µg/l	BLQ (LOQ:0.01)	30.0 Max.	No Relaxation	USEPA 8141 A
Discipline - Biological, Group - Water						
Bacteriological Requirements						
1	Coliform	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016
2	E.coli	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016

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## TEST REPORT

### Issued To:

Grasim Industries Limited (Birla Paints Division)  
Plot Nos B, T and D 02 P, Pandurang Budhkar Marg, Hi Tech  
Cyde Valley, Dhanansu, Ludhiana (PB) 141111

### Report No.

HTH/WT/230513003

### ULR No.

TC781123200001086F

### Party's Ref No.

Nil

### Booking Date

13/05/2023

### Period of Testing

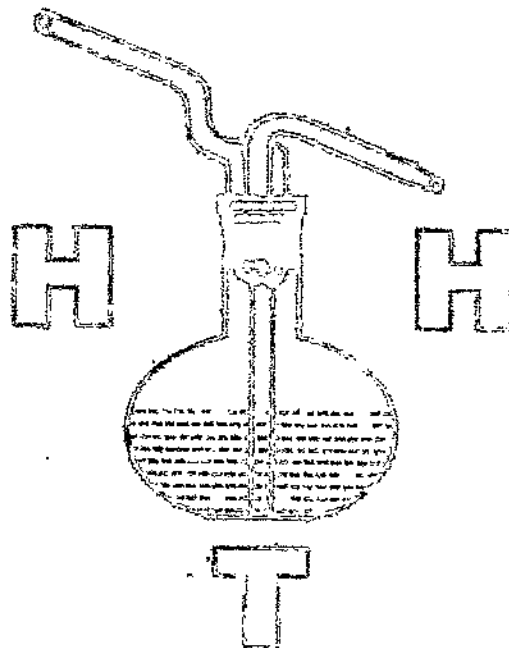
13/05/2023 to 18/05/2023

### Reporting Date

18/05/2023

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

Remarks : Analysed parameters of water sample confirms to IS 10500:2012 specification with respect to permissible limits for the above test parameters.  
B.L.Q. : Below limit of Quantification / L.O.Q. : Limit of Quantification  
\* If sample is Chlorinated.



*[Signature]*  
18.05.23  
Reviewed By

*[Signature]*  
18.05.2023

Nao Jyoti Gupta  
H.O.D. (Biological)

*[Signature]*  
18.05.23  
Md. Asfak Ansari  
Sr. Manager (Env.)

Page No.: 4 of 4

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& Consultancy Services

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## TEST REPORT

Issued To:	Report No.
Grasim Industries Limited (Birla Paints Division)	HTH/WT/230928001
Plot Nos B-1 and D-02 P, Pandurang Budhkar Marg, Hi-Tech	ULR No.
Cycle Valley, Dhanansu, Ludhiana (PB) 141111 Ludhiana	TC781123200002151F
	Party's Ref No.
	Nil
	Booking Date
	28/09/2023
	Period of Testing
	28/09/2023 to 06/10/2023
	Reporting Date
	06/10/2023

Sample Description	Borewell Water Sample	Sample Name	Borewell Water Sample
Type of Industry	Integrated Paints Manufacturing Unit	Sample quantity	15 Ltr. + 250 ml in sterilized bottle
Date of sampling	25/09/2023	Sample Location	Near WBP
Date of receipt of sample	28/09/2023	Purpose of analysis	Monitoring
Environmental Condition	Temp. 33°C & Humidity 65%	Sampling Done by	By our Lab Representative
Sampling Reference Protocol	IS 1622:1981		

REFERENCE TO PROTOCOL: IS 10500:2012 (Amend No. 4 Nov. 2021)

## TEST RESULTS

S.N.	Parameter	Unit	Result	Acceptable Limit	Permissible Limit	Method of Analysis
Discipline: Chemical, Group: Water						
Organoleptic and Physical Parameters						
1	Colour (Hazen)		1.0	5 Max.	25 Max.	IS 3025 (P-4):2011
2	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (P-5):2011
3	pH		7.33	5.5-8.5	No Relaxation	IS 3025 (P-11):2023
4	Taste		Agreeable	Agreeable	Agreeable	IS 3025 (P-7):2017 & IS 3025 (P-8):2023
5	Turbidity (NTU)		<1.0	1 Max.	5 Max.	IS 3025 (P-10):2023
6	Total Dissolved Solids (TDS)	mg/l	350.0	500 Max.	2000 Max.	IS 3025 (P-16):2023
General parameters concerning substances undesirable in excessive amounts						
1	Total Ammonia (as N)	mg/l	BLQ (LOQ:0.02)	0.5 Max.	No Relaxation	IS 3025 (P-34):1988
2	Arjonic Detergents (as MBAS)	mg/l	BLQ (LOQ:0.05)	0.2 Max.	1.0 Max.	IS 3025 (P-58):2019
3	Calcium (as Ca)	mg/l	42.9	75 Max.	200 Max.	IS 3025 (P-40):1991
4	Chloramines (as Cl <sub>2</sub> )	mg/l	BLQ (LOQ:0.3)	0.0 Max.	No Relaxation	IS 3025 (P-26):2021
5	Chloride (as Cl)	mg/l	6.0	250 Max.	1000 Max.	IS 3025 (P-32):1988
6	Fluoride (as F)	mg/l	0.50	1.0 Max.	1.5 Max.	APHA (4500 F)
7	Free Residual Chlorine	mg/l	BLQ (LOQ:0.1)	0.2 Min.	1 Min.	IS 3025 (P-26):2021
8	Magnesium (as Mg)	mg/l	22.65	30 Max.	100 Max.	IS 3025 (P-46):2023
9	Mineral Oil	mg/l	BLQ (LOQ:0.5)	1.0 Max.	No Relaxation	IS 3025 (P-39):2021
10	Nitrate (as NO <sub>3</sub> )	mg/l	7.0	45 Max.	No Relaxation	IS 3025 (P-34):1988
11	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	BLQ (LOQ:0.0004)	0.001 Max.	0.002 Max.	IS 3025 (P-43):sec-1:2022
12	Sulphate (as SO <sub>4</sub> )	mg/l	11.7	200 Max.	400 Max.	IS 3025 (P-24):sec-1:2022
13	Sulphide (as H <sub>2</sub> S)	mg/l	BLQ (LOQ:0.05)	0.05 Max.	No Relaxation	IS 3025 (P-29):2023
14	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	292.0	200 Max.	600 Max.	IS 3025 (P-23):2023
15	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200.0	200 Max.	600 Max.	IS 3025 (P-21):2009
16	Cyanide (as CN)	mg/l	BLQ (LOQ:0.02)	0.05 Max.	No Relaxation	IS 3025 (P-27):2021
Discipline: Chemical, Group: Residue in Water						
METALS						

Page No: 1 of 4

- Note: 1. Test report shall not be reproduced in whole or in part without the consent of the issuing authority.  
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4. The results contained in this test report pertain only to the sample tested and not for the whole lot.  
5. Total liability of Haryana Test House is limited to the fee received amount only.  
6. Sample not drawn by HTH unless otherwise specified.  
7. The details received from customer on its own responsibility. Lab does not conduct adulteration and hence does not have any responsibility whatsoever.



# HARYANA TEST HOUSE

## & Consultancy Services

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (OH) 86077-70160, 8150-4067223, (Env.) 86077-70164, (B&M) 86077-70166, (Food) 86077-70169  
Web Site: www.haryanatesthouse.net, e-mail: haryanatesthouse@gmail.com, info@haryanatesthouse.net



TC-7871



An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

## TEST REPORT

Issued To:	Report No:
Glass Industries Limited (Orta Paints Division)	HTH/W7/230928001
Plot Nos: B.1 and D.02 P. Pandurang Budhkar Marg, Hi Tech	ULR No.
Cycle Valley, Dhanansu, Ludhiana (PB) 141111 Ludhiana	TC7811232090021546
	Party's Ref No.
	Nil
	Booking Date
	28/09/2023
	Period of Testing
	28/09/2023 to 06/10/2023
	Reporting Date
	06/10/2023

## TEST RESULTS

S.N.	Parameters	Units	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
1.	Aluminium (as Al)	mg/l	BLQ (LOQ: 0.010)	0.03 Max.	0.2 Max.	HTH/QF/7.2/2/CP-01.SOP NO-18
2.	Barium (as Ba)	mg/l	0.238	0.7 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
3.	Boron (as B)	mg/l	0.148	0.5 Max.	7.4 Max.	HTH/QF/7.2/2/CP-01.SOP NO-18
4.	Copper (as Cu)	mg/l	BLQ (LOQ: 0.001)	0.05 Max.	1.5 Max.	HTH/QF/7.2/2/CP-01.SOP NO-18
5.	Iron (as Fe)	mg/l	0.076	1.0 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
6.	Manganese (as Mn)	mg/l	0.019	0.1 Max.	0.3 Max.	HTH/QF/7.2/2/CP-01.SOP NO-18
7.	Selenium (as Se)	mg/l	BLQ (LOQ: 0.005)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
8.	Silver (as Ag)	mg/l	BLQ (LOQ: 0.001)	0.1 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
9.	Zinc (as Zn)	mg/l	0.079	5.0 Max.	15 Max.	HTH/QF/7.2/2/CP-01.SOP NO-18
<b>TOXIC SUBSTANCES</b>						
1.	Cadmium (as Cd)	mg/l	BLQ (LOQ: 0.001)	0.003 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
2.	Lead (as Pb)	mg/l	BLQ (LOQ: 0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
3.	Mercury (as Hg)	mg/l	BLQ (LOQ: 0.0005)	0.001 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
4.	Molybdenum (as Mo)	mg/l	0.004	0.07 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
5.	Nickel (as Ni)	mg/l	BLQ (LOQ: 0.001)	0.02 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
6.	Total Arsenic (as As)	mg/l	0.002	0.02 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
7.	Total Chromium (as Cr)	mg/l	BLQ (LOQ: 0.001)	0.05 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
8.	Polychlorinated biphenyl (PCB)	mg/l	BLQ (LOQ: 0.00005)	0.0005 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
9.	Polynuclear Aromatic Hydrocarbons (PAH)	mg/l	BLQ (LOQ: 0.00005)	0.0001 Max.	No Relaxation	HTH/QF/7.2/2/CP-01.SOP NO-18
10.	Uranium	mg/l	0.017	0.03 Max.	No Relaxation	IS 3025 (P-65): 2022

Page No.: 2 of 4.

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6. Total liability of Haryana Test House is limited to the analytical results only.  
7. Sample not drawn by HTH unless otherwise specified.



# HARYANA TEST HOUSE

## & Consultancy Services

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off) 86077-70160, 0180-4067223, (Hr) 86077-70154, (Bn) 86077-70166, (Food) 86077-70169  
Web Site: www.haryanatesthouse.net, e-mail: haryanatesthouse@gmail.com, info@haryanatesthouse.net



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

### TEST REPORT

Issued To: Grasim Industries Limited (Beta Pigments Division) Plot Nos B-1 and D-02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (PB) 141111 Ludhiana	Report No.: HTH/WT/230925001 ULR No.: TC781123200002151F Party's Ref No.: Nil Booking Date: 28/09/2023 Period of Testing: 28/09/2023 To 06/10/2023 Reporting Date: 06/10/2023
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#### TEST RESULTS

S.N.	Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
<b>Residual Pesticides</b>						
1	Aldrin	ppb	BLQ(LOQ:0.01)	20 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
2	Azinphos	ppb	BLQ(LOQ:0.01)	2.0 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
3	Aldrin	ppb	BLQ(LOQ:0.01)	0.037 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
4	Dieldrin	ppb	BLQ(LOQ:0.01)	0.03 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
5	Alpha-HCH	ppb	BLQ(LOQ:0.01)	0.01 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
6	Beta-HCH	ppb	BLQ(LOQ:0.01)	0.01 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
7	Gamma-HCH	ppb	BLQ(LOQ:0.01)	20 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
8	Delta-HCH	ppb	BLQ(LOQ:0.01)	0.04 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
9	Butachlor	ppb	BLQ(LOQ:0.01)	125 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
10	Chlorpyrifos	ppb	BLQ(LOQ:0.01)	20 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
11	DDT (o,p and p,p- isomer of DDT, DDE and DDD)	ppb	BLQ(LOQ:0.01)	0.1 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
12	O,p-DDT	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
13	p,p-DDT	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
14	O,p-DDE	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
15	p,p-DDE	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
16	O,p-DDD	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
17	p,p-DDD	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
18	Endosulphan (Alpha and Beta and Sulphate)	ppb	BLQ(LOQ:0.01)	0.4 Max.	No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02
19	Alpha-Endosulphan	ppb	BLQ(LOQ:0.01)		No Relaxation	HTH/CF/7.2/2/GC-01, SOP NO 02

Page No: 3 of 4

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# HARYANA TEST HOUSE

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An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

## TEST REPORT

<b>Issued To:</b> Grisin Industries Limited (Birla Paints Division) Plot Nos B-1 and D-02 P, Pandurang Budhkar Marg, Hi Tech Cyber Valley, Dhanansu, Ludhiana (PB) 141111 Ludhiana	<b>Report No.:</b> HTH/WT/230928001 <b>CLR No.:</b> TC781123200002151F <b>Party's Ref. No.:</b> Nil <b>Booking Date:</b> 28/09/2023 <b>Period of Testing:</b> 28/09/2023 To 06/10/2023 <b>Reporting Date:</b> 06/10/2023
---	---

### TEST RESULTS

S.N.	Parameters	Unit's	Results	Acceptable Limits	Permissible Limit's	Method of Analysis
19						02
20	Beta-Endosulphan	µg/l	BLQ(LOQ:0.01)		No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
21	Endosulphan Sulfate	µg/l	BLQ(LOQ:0.01)		No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
22	Ethion	µg/l	BLQ(LOQ:0.01)	3.0 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
23	Isoproturon	µg/l	BLQ(LOQ:0.01)	9.0 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
24	Malathion	µg/l	BLQ(LOQ:0.01)	190.0 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
25	Methyl Parathion	µg/l	BLQ(LOQ:0.01)	0.3 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
26	Monocrotophos	µg/l	BLQ(LOQ:0.01)	1.0 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
27	Phorate	µg/l	BLQ(LOQ:0.01)	2.0 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
28	2,4-D	µg/l	BLQ(LOQ:0.01)	20.0 Max	No Relaxation	HTH/QF/7.2/2/GC-01, SOP NO
Discipline - Biological, Group- Water						
Bacteriological Requirements						
1	Coliform	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016
2	E.coli	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016

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

Remarks: Analysed parameters of water sample conforms to IS 10500:2012 Amendment No. 4, Nov 2021 specification with respect to permissible limits for the above test parameters.  
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

*[Signature]*  
06/10/2023

Nad Jyoti Gupta  
H.O.D. (Biological)

*[Signature]*  
06/10/2023  
Ashish Sharma  
G.M. (Tech.)

Page No. 4 of 4

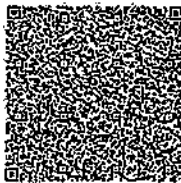
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6. Total liability of Haryana Test House is limited to the amount of charges only.  
7. Sample not tested by HTH unless otherwise specified.

## INDIA NON JUDICIAL

## Government of Punjab

## e-Stamp

Certificate No.	IN-PB48154507762529V
Certificate Issued Date	09-Oct-2023 10:46 AM
Certificate Issued By	pbalknru
Account Reference	NEWIMPACC (SV)/ pb7092104/ LUDHIANA/ PB-LD
Unique Doc Reference	SUBIN-PBB709210497701679853130V
Purchased By	NARESH KUMAR
Description of Document	Article 5 Agreement or Memorandum of an Agreement
Property Description	Not Applicable
Area of Property	Not Applicable
Consideration Price (Rs.)	0 (Zero)
First Party	GRASIM INDUSTRIES LIMITED
Second Party	SHREE CEMENT
Stamp Duty Paid By	GRASIM INDUSTRIES LIMITED
Stamp Duty Amount (Rs.)	500 (Five Hundred only)
Social Infrastructure Cess (Rs.)	0 (Zero)
Total Stamp Duty Amount (Rs.)	500 (Five Hundred only)



Please write or type below this line

**GRASIM INDUSTRIES LIMITED**  
 (Birla Paints Division)  
 Plot Nos. B-1 & D-02(P), Hi-Tech Valley,  
 Village: Dhanamsu, District: Ludhiana. (Pb)-141112



IRD 0015842505



## ENVIRONMENT POLICY

Grasim Industries Limited-Birla Paints Division recognises that effective management of environmental impacts is a fundamental part of our business. We shall strive to integrate sound environmental practises across our management and governance systems to minimize environmental impacts and attain a leadership position in environmental stewardship.

Birla Paints shall endeavour to:

- Maintain positive legal compliance to environmental regulations and committed to go beyond the statutory requirements and adopt stringent standards.
- Adoption and application of state of art technology and improvement through manufacturing process to minimise the environmental impact of our operations.
- Take initiatives towards efficient use of natural resources and energy; reduction and prevention of pollution; and promoting waste avoidance and recycling measures in line with internationally disseminated technologies and practices.
- Make continuous efforts to minimize freshwater consumption by increasing the use of harvested or recycled water in our operations across all Manufacturing Facilities and contributing towards becoming water positive.
- Raise environmental awareness through participation and consultation at all levels of our operations, through training and effective communication.
- Influence our contractors and suppliers to adopt our environmental policy, principles, and practices, and encourage appropriate environmental management across the supply chain.
- Continually improve environmental performance by strengthening the Environmental Management System conforming to national /international standards, including setting up and reviewing targets and measuring, monitoring, and reporting their progress.
- Monitor, measure, report the progress, performance of environmental conservation and management initiatives in compliance with internationally recognized protocols and communicate approach and achievements to relevant stakeholders.

This policy will be reviewed periodically for its suitability and updated as necessary.

A handwritten signature in black ink, appearing to be "Rakshit Hargave", written over a horizontal line.

Rakshit Hargave  
Chief Executive Officer

Date: 7<sup>th</sup> December 2023

Grasim Industries Limited Ludhiana		
Environment Cell		
Sl. No.	Name	Designation
1	Manoj Dadhwal	Site Head
2	Bhanu Sirohi	Lead Mechanical
3	Sandeep Sengar	Lead EHS
4	Khushbir Singh	Lead E&I
5	Yadvendra Vasudev	Lead HR
6	Nitish Vats	Lead Civil
7	Deepak Singh	Team member E&I
8	Naresh Kumar	Team Member EHS
9	Vikas Kumar	Team Member EHS
10	Shivendeep Mishra	Team Member EHS
Agenda of the Meeting		
1	Review of EHS Compliances	
2	Review of New Norms / guidelines	
3	Review of Environment Management: ETP STP RO MEE	
4	Review of Waste Management	
5	Review of Water Management	
6	Review Trainings & Awareness	
7	Review of CER activities	

### Environment Management Plan Status as on 31.03.2024

Grasim Industries Limited, a flagship company of the global conglomerate Aditya Birla Group, ranks amongst the top publicly listed companies in India. M/s. Grasim Industries Limited is currently establishing the integrated paint manufacturing facility located at plot no. B1 and D 02(P) in Hi-Tech Valley, Village Dhanansu of Ludhiana District, State Punjab. Project has been accorded Environmental Clearance vide EC Identification No. EC22B023PB139111 Dated:19th January-22.

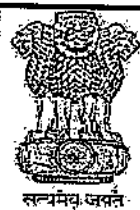
EMP no	EMP Name	EMP Activities	Mitigation & Action Plan	Timing	Current Status
10.1	Land use/Land cover	Site preparation- Clearance of vegetation/crop	Clearance of vegetation shall only be done on which construction is to take place. Topsoil will be stored separately and will be used for greenbelt within the site. Compensatory green cover development within site.	For the construction period	Complied
	Land use/Land cover	Construction activity- Excavation and filling of foundation	Excavated earth will be used for backfilling and care will be taken that natural drainage pattern remains unchanged	For the construction period	Complied



10.2	Air emission	Manufacturing process — pre-dispersion, dispersion, mixing & tinting, packing, etc.	Majority of powders will be through bulk handling systems, and these will be pneumatically conveyed into the disperser for further processing. The exhaust of bulk handling will have bag filters/dust collectors attached to control particulate matters. Bulk consumed liquids RMs will be stored in the storage tank, and they will be pumped through pipeline using pump into the Mixers, Dispersers, Reactors, and other process vessels.	At all times, during the operational phases	Being Complied during operation and compliance assured
		Operation of DG	Adequate Stack Height	At all times, during the operational phases & construction phase	Adequate stack height provided as per CPCB guidelines
10.3	VOC emission during process	Manufacturing process	Close loop system	At all times, during the production process	Being Complied during operation and compliance assured
10.4	Noise Measurement	Start-up and shutdown activities like operation of equipment for all the proposed plants	Periodic noise measurement from external NABL to be conducted. SOP's will be followed. Ear plugs and Earmuffs will be provided to workers wherever applicable.	During construction & production process	The periodically monitoring of noise being done and compliance assured
		Operation of D.G. Set & Blower	DG with acoustic enclosures will be provided. Ear plugs and Earmuffs will be provided	During construction & production process	DG with acoustic installed at site and compliance assured

10.5	Water Quality	Usage of Water	<p>Water conservation plans shall be ensured such as recycling of the effluent through recycle and reuse system.</p> <p>Flow meters shall be installed at each of raw water intake point. Care shall be taken to avoid leakage of water sources and it will be maintained by continuous monitoring by flow measurements.</p>	During construction & production process	The site has installed ZLD plant for complete recycling of wastewater and compliance being assured
		Wastewater generation & Disposal	<p>The effluent generation from the proposed unit shall be treated in proposed ETP and treated water shall be used for gardening, firefighting, washing and dust suppression. Flow meters shall be installed at inlet and outlet of the ETPs.</p> <p>Use of spill control measures, mechanical handling, PPEs shall be mandatory while handling the chemicals in ETP to avoid spillages</p>	All times	Being Complied
10.6	Solid & Hazardous Waste	Storage, handling and disposal of hazardous waste	<p>Hazardous waste shall be segregated at source and stored in hazardous waste storage area. Proper area shall be demarcated for the storage of hazardous waste facilitate with impervious flooring to avoid leakage problem.</p>	All times	Complied
			<p>Spill control mechanism shall be in place.</p> <p>PPEs shall be mandatory while handling the hazardous waste during loading &amp; unloading of wastes.</p> <p>Necessary membership shall be taken from the approved</p>	All times	<p>Spill kit provided as shop floor</p> <p>The PPEs compliance assured at site</p> <p>The site has received</p>

			authority for safe disposal of hazardous waste.		membership of TSFD and coprocessing agency
10.7	Land and Soil	Soil contamination due to storage, handling of Hazardous waste	The places where hazardous materials will be stored and handled will have RCC floor to avoid such contaminations.	During operation & Maintenance phase	Compliance assured
10.8	Hydrogeology	Usage of Water	Rainwater Harvesting and reuse to reduce freshwater consumption	During production process	Noted for the compliance
		Handling and storage of raw material and products	Groundwater Chemical testing of Monitoring well Pre & Post Monsoon i.e., May & Oct.)	During production process	Being complied
		Rainwater harvesting structure based on annual rain fall number	Storm & roof water tank to be constructed with storage capacity of 9600 kl	During plant operation phase	Ground water monitoring being done periodically, and compliance assured
10.9	Ecology and Biodiversity	Green belt development	Green belt to develop in 33% of plant area	During construction & production process	Green belt work in progress as per yearly plan



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB  
Ministry of Environment, Forest & Climate Change, Government of India  
O/o Directorate of Environment & Climate Change  
MGSIPA Complex, Sector-26,  
Chandigarh-160019  
seiaapb2017@gmail.com

No. SEIAA/MS/2022/ 368

Registered/Online

Date: 17/08/ 2022

To:

M/s Grasim Industries Ltd.,  
A-2 Aditya Birla Centre S.K. Ahire Marg, Worli,  
Mumbai Maharashtra- 400030  
Mobile no : 9869128840  
Email ID: khushbirsingh@adityabirla.com

**Subject:** Submission of Action Plan towards Corporate Environmental Responsibility (CER) Activities.

This is in connection to your letter dated 06.07.2022 w.r.t. subject cited matter.

It is intimated that the matter was considered by SEIAA in its 211<sup>th</sup> meeting held on 27.07.2022, wherein, SEIAA observed that the requisite action plan has been submitted by the promoter company within the permitted time period of 6 months from the date of issue of the EG.

SEIAA perused the Plan submitted by the project proponent and approved the same with the following modifications/ conditions:

Sr. No.	Activities	Timelines	Proposed expenditure (in lacs)	Approved Expenditure (in lacs)
1	Establishing Nursery for Nurturing, Caring and Sharing of Native Trees Species and Distributing sapling to nearby communities, free of charge along with Plantation of Native Trees in Selected Areas	04 years	205	205
2	Donation of Environmental Books/Literature to Schools/Panchayat/Colleges	04 years	45	20
3	Donation of plastic bottle crusher to Railway Station/Bus Stands	04 years	80	50
4	Distribution of Paper/Jute Bags to replace Plastic Bags	04 years	70	70
5	Distribution of Glass/Metallic Bottles to replace Plastic Bottles	04 years	50	50

6	Upgradation/Provision of Monitoring Lab/Van to PPCB-Ludhiana	03 years	85	85
7	Contribution to Tandrust Punjab Fund for Environmental Initiatives taken by Govt. of Punjab	Already Donated	91	91
8	Provision of Solar Electrification/Water Heating in Schools, police Stations, panchayat Office, and Nearby Villages etc.	04 years	180	180
9	Pond Restoration in nearby Villages	04 years	105	160
<b>Total</b>			<b>911</b>	<b>911</b>

The above works would be undertaken in lieu of CER activities and would form part of the EMP of the Project.

SEIAA further observed that the Project Proponent has sought 25% flexibility in the expenditure to be incurred on the individual components (whilst ensuring that the total outlay of the Plan remains as Rs 9.11 crores). After deliberations, SEIAA decided that 20% variation in the component-wise expenditure may be permitted under intimation to SEIAA, if recommended by the accredited consultants of the promoter company on the basis of local requirements. However, prior permission would be required from SEIAA in case the variations exceed 20%.

Further, the Project Proponent would submit the progress of works and expenditure incurred thereon along with 6-monthly compliance reports and an annual Utilisation Certificate of the above funds earmarked in lieu of CER activities in the EMP.

This is for your information and necessary action in the matter.

  
Environmental Engineer

**Grasim Industries Limited**  
**Ludhiana Punjab**  
**Corporate Environment Responsibility Plan & Status on 31<sup>st</sup> March 2024**

Grasim Industries Limited are in process of setting State of Art Integrated Paint Manufacturing Facility at Hitech Cycle Valley Ludhiana Punjab. In process of the same we had filed application for EC and received the same vide Letter no. SEIAA/PB/IND/2021/EC/22 dated 19.01.2022. In compliance of above we have submitted our 4 Years Corporate Environment Responsibility (CER) Plan to SEIAA on 06.07.2022. The Submitted CER Plan was approved by SEIAA on 17.08.2022 vide Letter SEIAA/MS/2022/368.

Status of CER Plan Activities as on 31<sup>st</sup> March 2024.

Sr No.	CER Planned Activities	Approved Budget (in Lac)	Expenditure (in Lacs) 31.03.2024	Status
1.	Establishing Nursery for Nurturing, Caring and Sharing of Native Trees Species and distributing sapling to nearby communities free of charge along with Plantation of Native Trees in Selected Areas	205	14.48	Model Nursery set up completed near Plant Premises. 3265 Nos of Plants distributed in nearby areas.
2.	Donation of Environmental Books/Literature to Schools/Panchayat/Colleges	20	3.16	"Down to Earth" Magazine subscribed for 300 schools for a year. 1380 Nos of Env Books distributed among schools
3.	Donation of Plastic Bottle Crusher to Railway Station/Bus Stands	50	24.6	Order for 10 Machines placed. 08 Nos of machines installed at various locations
4.	Distribution of Paper / Jute Bags to replace Plastic Bags	70	7.5	7965 Nos of Jute Carry Bags distributed in nearby areas.
5.	Distribution of Glass/ Metallic Bottles to replace Plastic Bottles	50	10.45	1541 Nos of Copper Bottles distributed in nearby areas.
6.	Upgradation/Provision of Monitoring Lab/Van to PPCB - Ludhiana	85	25	Cheque of Rs. 25 lac submitted to PPCB for Environment Lab.
7	Setting a Virtual Corporate Interaction Lab (Innovation & sustainability solutions) in Guru Nanak Dev University	14	10.3	Setting a Virtual Corporate Interaction Lab (Innovation & sustainability solutions) in Guru Nanak Dev University work completed & handover
8.	Contribution to Tandrust Punjab Fund for Environmental Initiatives taken by Govt. of Punjab	91	91	Completed
9.	Provision of Solar Electrification / Water Heating in Schools, Police Stations, Panchayat Office, and Nearby Villages etc.	180	0	Technical Evaluation Completed.

10.	Pond Restoration in nearby Villages	160	0	Vendor evaluation started
	Total	925	187	

### Glimpses of CER Activities

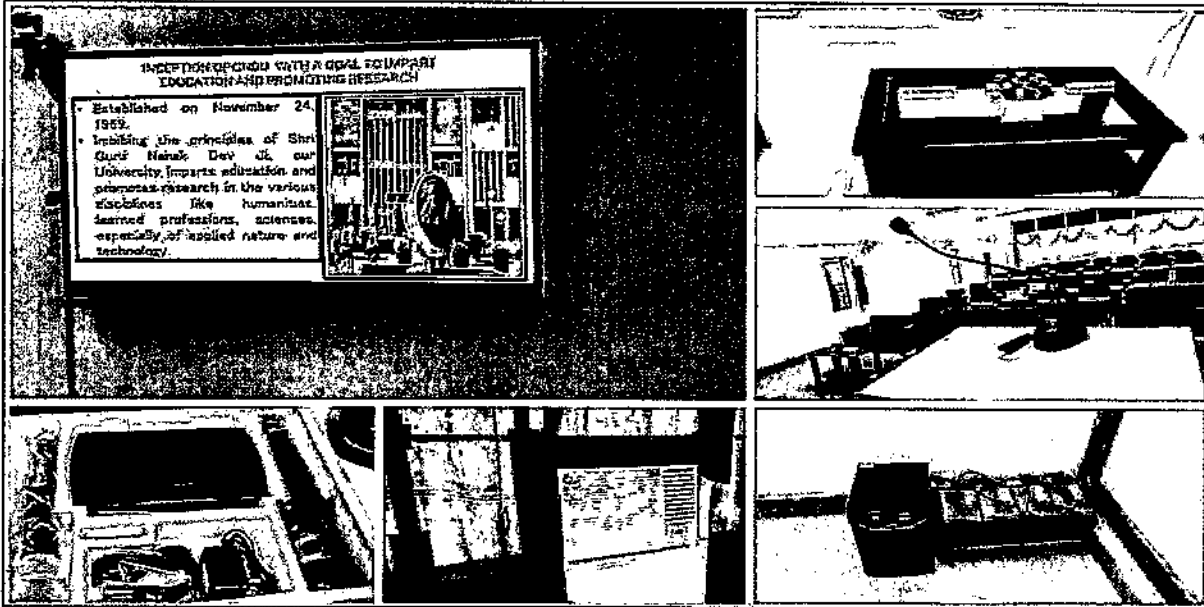


**Installation of Bottle Crusher Machines at various locations in Ludhiana city**



**Distribution of Plants & Jute carry bags CER Plan to reduce Plastic Wastes**





Setting a Virtual Corporate Interaction Lab (Innovation & sustainability solutions) in Guru Nanak Dev University





distribution of plant sapling to Nearby areas

## ANNEXURE - 6A-



The Tribune ( English)

**Grasim Industries Limited**  
 Integrated Paint Manufacturing Unit at  
 Plot No. B-1, D-62 (P),  
 Hi-Tech Valley, Village Dhananah,  
 Dist. Ludhiana, State Punjab.

**NOTICE OF ENVIRONMENTAL CLEARANCE BY  
 SEIAA, PUNJAB FOR INTEGRATED PAINT  
 MANUFACTURING UNIT IN PLOT NO. B-1, D-62 (P),  
 HI-TECH VALLEY, VILLAGE DHANANAH &  
 DISTRICT LUDHIANA, STATE PUNJAB**

Notice is hereby given, to all concerned & public at large, that the Integrated Paint Manufacturing Unit at Plot No. B-1, D-62 (P), Hi-Tech Valley, Village Dhananah, Dist. Ludhiana, State Punjab has been accorded Environmental Clearance from State Level Environment Impact Assessment Authority, Punjab vide its letter of Clearance No. EC273523P/132411 dated 15th January 2012. The copy of the said clearance letter is available at the corporate office of the Organisation and at the office of State Level Environment Impact Assessment Authority (SEIAA) Punjab, and may also be seen at the website of the UICP-2012 i.e. <http://uicp2012.seiaa.org.in>

21/2012

In English

2022/01/28 08:

Airt (Punjabi)

## In Punjabi

**In Punjabi**



Ref: Grasim/LDH/EHS/2023/27

Date: 30/11/2023

To,

The Chairman (SEIAA)

The Ministry of Environment, Forests and Climate Change

Directorate of Environment &amp; Climate Change

MGSIPA Complex Sector-26,

Chandigarh-160019

**Subject:** Submission of Environmental Clearance Six-monthly Compliance Report with reference to EC No: EC22B023PB139111, File No.: SEIAA/PB/IND/2021/EC/22, Dated: 19<sup>th</sup> January 2022

Dear Sir,

With reference to above mentioned subject we are hereby submitting the six-monthly EC compliance report from the period of 1<sup>st</sup> April 2023 to 30<sup>th</sup> September 2023 to your good office.

Please find the enclosed report for your perusal. We request you to kindly acknowledge the receipt of the same.

Thanking you,

Sincerely,

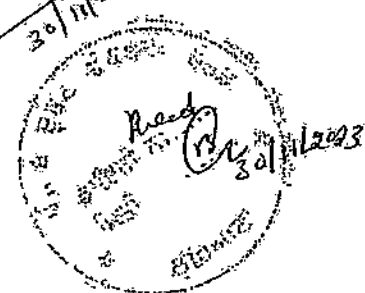
For Grasim Industries Limited

(Authorized Signatory)

Copy To:

✓ 1. Regional Office, Punjab Pollution Control Board, Ludhiana

Recd by  
Handed  
30/11/23





सत्यमेव जयते

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**Compliance Report**  
**2023**

01 Dec(01 Apr - 30 Sep)

**Proposal Details**

<b>Proposal Name</b>		Integrated Paint Manufacturing Unit in Plot No. B-1, D-02 (P), Hi-Tech Valley, Village Dhanansu, Dist. Ludhiana, State Punjab	
<b>Name of Entity / Corporate Office</b>		M/S. GRASIM INDUSTRIES LIMITED	
<b>Village(s)</b>		N/A	
<b>District</b>		LUDHIANA	
<b>Proposal No.</b>	EC22B023PB139111	<b>Category</b>	Industrial Projects - 1
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	PUNJAB	<b>Entity's PAN</b>	NA
<b>MoEF File No.</b>	SEIAA/PB/IND/2021/EC/22	<b>Entity name as per PAN</b>	NA

**Compliance Reporting Details**

<b>Reporting Year</b>	2023
<b>Remarks (if any)</b>	<p>Dear Sir, We are hereby submitting the six-monthly EC compliance report from the period of 1st April 2023 to 30th September 2023. We request you to kindly acknowledge the same. Thanking you,</p> <p>Sincerely, Grasim Industries Limited, Ludhiana</p>
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)

**Details of Production and Project Area**

<b>Name of Entity / Corporate Office</b>	M/S. GRASIM INDUSTRIES LIMITED	
	<b>Project Area as per EC Granted</b>	<b>Annual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	24.8382	24.8382
<b>Total</b>	<b>24.8382</b>	<b>24.8382</b>



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



ULR No. : TC1181824000002787F		Test Report No. : NN01270324NA040	
Type of Sample : Noise Generator Set- Insertion Loss		Date of Reporting : 03/04/2024	
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, HI Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt: 14/02/2024
		Customer reference No. (if any)	NA
Sampling Protocol	EL-MSP-7.3	Mode of Collection of Sample	Mr. Bhajanpreet (Eco Rep.)
Date of Sampling	27/03/2024	Date of Receipt of Sample	27/03/2024
Sampling Location	DG Set No.2 (2000 KVA) Mfg. Yr. 2023	Period of Analysis	27/03/2024 to 27/03/2024
Standard/ Specification	Noise Generator Set- Insertion Loss: EPA 1986 S.No. 94	Environmental Conditions	-- 11V
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Source Noise Levels)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Noise Levels- Source (Inside acoustic enclosure/ DG enclosure with all door/windows/openings are OPEN)	dB(A)	104.6	-	30	IS 4758
2	Noise Levels- Source (At 0.5 m from acoustic enclosure// DG enclosure with all door/windows/openings are CLOSED)	dB(A)	78.7	--	30	IS 4758
3	Insertion Loss	dB(A)	25.9	Min. 25	--	IS 4758

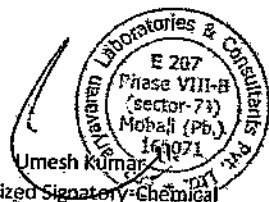
Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



ANNEXURE-1

Ministry of Environment and Forests  
Notification

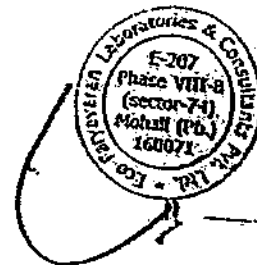
G.S.R. 371(E) dated 17th May, 2002 along with G.S.R. 520 (E) dated 1st July, 2003 and G.S.R. 448 dated 12.07.2004 (The Environment (Protection) Amendment Rules, 2003)

94. NOISE LIMIT FOR GENERATOR SETS RUN WITH DIESEL

1. Noise limit for diesel generator sets (upto 1000 KVA) manufactured on or after the 1st January, 2005. The maximum permissible sound pressure level for new diesel generator (DG) sets with rated capacity up to 1000 KVA, manufactured on or after the 1st January, 2005 shall be 75 dB(A) at 1 meter from the enclosure surface. The diesel generator sets should be provided with integral acoustic enclosure at the manufacturing stage itself.

2. Noise limits for diesel generator sets not covered by paragraph 1, shall be as follows:  
i. Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.

The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side. If the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise





# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



ULR No. : TC1181824000002786F		Test Report No. : NN01270324NA039	
Type of Sample : Noise Generator Set- Insertion Loss		Date of Reporting : 03/04/2024	
Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D'02-P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt.: 14/02/2024
		Customer reference No. (if any)	NA
Sampling Protocol	EL-MSP-7.3	Mode of Collection of Sample	Mr. Bhajanpreet (Eco Rep.)
Date of Sampling	27/03/2024	Date of Receipt of Sample	27/03/2024
Sampling Location	DG Set No. 1 (2000 KVA) Mfg. Yr. 2023	Period of Analysis	27/03/2024 to 27/03/2024
Standard/ Specification	Noise Generator Set- Insertion Loss: EPA 1986 S.No. 94	Environmental Conditions	-
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Source Noise Levels)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1.	Noise Levels- Source (Inside acoustic enclosure/ DG enclosure with all door/windows/openings are OPEN)	dB(A)	106.3	-	30	IS 4758
2	Noise Levels- Source (At 0.5 m from acoustic enclosure// DG enclosure with all door/windows/openings are CLOSED)	dB(A)	80.3	-	30	IS 4758
3	Insertion Loss	dB(A)	26.0	Min. 25	-	IS 4758

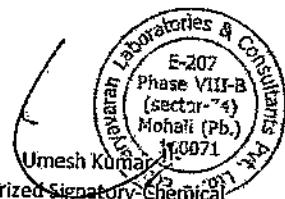
Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BD.L: Below Detection Level, NA: Not Applicable.

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical

Noise-EL-FMT-7.8.2-SN02

**ECO BHAWAN**

E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071



ANNEXURE-1

Ministry of Environment and Forests  
Notification

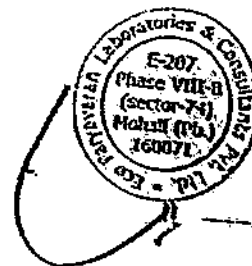
G.S.R. 371(E) dated 17th May, 2002 along with G.S.R. 520 (E) dated 1<sup>st</sup> July, 2003 and G.S.R. 448 dated 12.07.2004 (The Environment (Protection) Amendment Rules, 2003)

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The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side. If the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise.





# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

## TEST REPORT



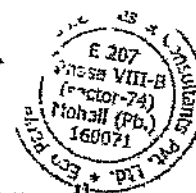
ULR No. :	TC1181824000002671F	Test Report No. :	NNOL230324NA014
Type of Sample : Noise- Ambient Air			
Customer Name	Grasim Industries Ltd. (Birla Paints Division)	Work Order No. & Date	4900003247 Dt: 14/02/2024
Address	Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Customer reference No. (If any)	NA
		Date of Sampling	22/03/2024
Sampling Protocol	IS 9989, EL-MSP-7.3	Date of Sample Receipt	23/03/2024
Sample Collection Mode	Mr. Bhajanpreet (Eco Rep.)	Period of Analysis	23/03/2024 To 23/03/2024
Testing Location	On Site & Permanent Facility	Date of Reporting	01/04/2024
Sampling Location	Refer below		
Standard/Specification	Noise- Ambient Air: EPA 1986 Schedule II		
Environment conditions			

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Ambient Noise Levels)

S.No.	Location	Units	Result (Day)	Result (Night)	Detection Limit	Test Method
1	RMG Area (Green Belt Area)	dB(A)	55.6	46.2	30	EL/SOP/AN/01
2	Near ETP	dB(A)	64.9	61.8	30	EL/SOP/AN/01
3	Near PMG	dB(A)	48.1	41.9	30	EL/SOP/AN/01
4	Near QA Lab	dB(A)	52.2	41.5	30	EL/SOP/AN/01
5	Near EB	dB(A)	51.0	45.8	30	EL/SOP/AN/01
6	Near Admin	dB(A)	53.7	41.4	30	EL/SOP/AN/01
7	Near Reservoir	dB(A)	47.2	39.9	30	EL/SOP/AN/01
8	Check in Office (Green Belt Area)	dB(A)	59.1	46.8	30	EL/SOP/AN/01



Umesh Kumar

Authorized Signatory-Chemical

Noise- EL-FMT-7.8.2-AN

Page No. 1/2

**ECO BHAWAN**

E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

0172-4616225

9781303109

contact@ecoparyavaran.org

mail@ecoparyavaran.org

www.ecoparyavaran.org



TC-11818

ULR No. : TC1181824000002671F

Test Report No. : NN01230324NA014

Type of Sample : Noise-Ambient Air

## Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Remarks : NA

## OTHER INFORMATION

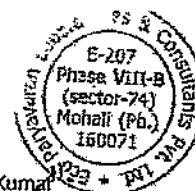
Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms &amp; Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

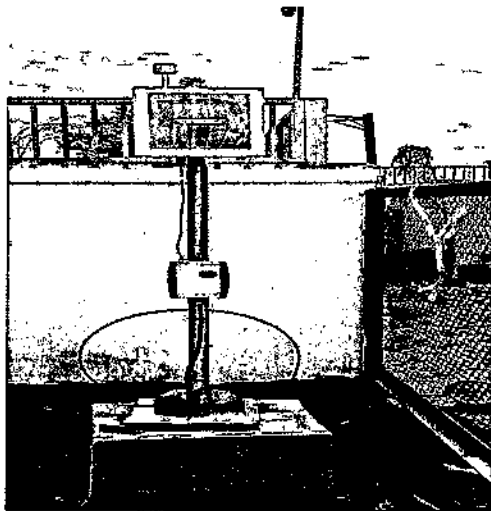
\*\*End of Report\*\*



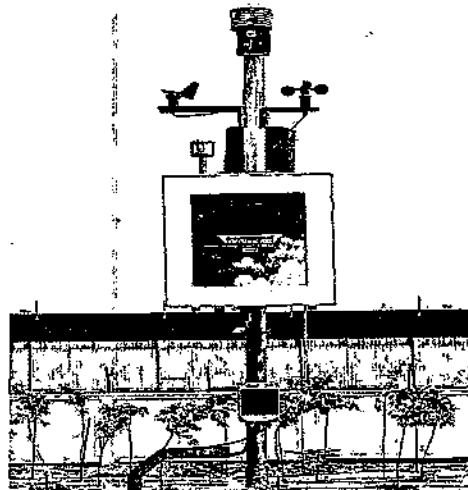
Umesh Kumar

Authorized Signatory-Chemical

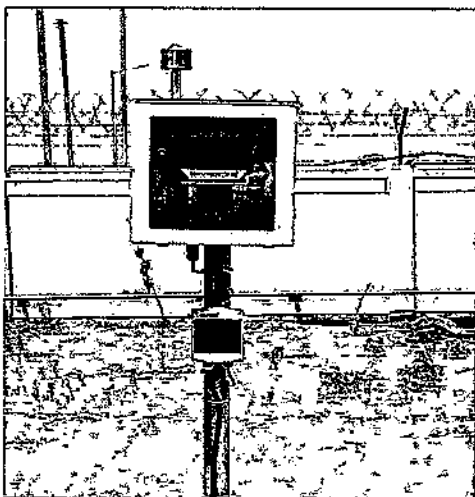
AMBIENT AIR MONITORING STATION MONITORING OF PM 2.5, PM 10, SO<sub>x</sub> and NO<sub>x</sub>



Located near Gate no 1



Located at ETP



Located at PMG



Located near Storm Tank

## Green Belt Development as Per EC



### **Total Area for Green Belt:**

**Size:** 81,971 square meters.

**Percentage of Project Area:** 33%.

### **As Per EC conditions Planting Specifications:**

**Indigenous Tree Species:** At least 75% of the Green Belt area should be planted with indigenous, preferably broad-leaved tree species.

**Other Planting:** The remaining area can be greened with a mix of ornamental trees, medicinal/ornamental plants, shrubs, grasses, etc.

**Height of Saplings:** Saplings should be at least 6 feet tall at the time of planting.

**Total Saplings:** 12,300 saplings to be planted.

## Green Belt Development Status summary



ADITYA BIRLA GROUP

**Tree Plantation:** Along the entire periphery of the plant, we have strategically planted already grown trees that are two to three years old, height of eight to ten feet.

**Diverse Tree Species:** Our selection of trees includes a diverse range of species such as **Kachnar, Pilkhan, Maulsiri, Gulmohar, Goolar, Putranjiva, Arjun, Behada, Jamun, Silver Oak, Spathodea, Chakresia, Kadamb** and more.

**Landscaping of Green Belt pockets:** We have plantaed extensive landscaping, featuring a lush green lawn with Korean carpet grass, Loose Korean grass, Selection one grass and hedges like **Kaner, Hamelia, Hibiscus, jasmine, Chandni dwarf, Gardenia, Roses, Ixora, Ficus, Salvia, Marigold, Tecoma Gaudi Chaudi & Inermi** etc. We have also introduced a variety of floral species, including decorative plants, palm trees, and a diverse selection of flowering species etc.

**Additional Plant Varieties:** In addition to trees, we have introduced **Furcareia, Largestonia, Conacarpus, Pulmerea Alba, Bottle Brush, Cassia Fistula, Jacaranda, Areca Palm, Ashok, Bamboo, Buddha Valley, Terminalia, Bismarkia, and Bottle Palm.**

## Green Belt Development Status summary



ADITYA BIRLA GROUP

Green Belt Plantation			
S.no.	Plants	Unit	Total
1	Canopy Trees (Along the Boundary wall), Silver Oak, Golmohar, Spathodia, Chinaberry, Chakresla, Gular, Erythrina, Mahogani, Jamun, Kadamb, Simbul, Pilkhan	EA	4107
2	BOTTLE PALM 15 FEET HIGH	EA	74
3	CASSIA FISHTULA	EA	33
4	BISMARKIA PALM	EA	2
5	KANER ( NERIUM OLEANDER)	EA	4,363.00
6	GOLDEN BOTTLE BRUSH TOPIARY	EA	23
7	TERMANALIA MANTALY	EA	20
8	CYPRESS DWARF	EA	14
9	BAMBOO BUDDHA (8 FEET TO 10	EA	244
10	ARECA PALM (4'-0" TO 5'-0")	EA	25
11	LARGESTOMIA INDICA (10'-0" TO 12'-0" HT)	EA	24
12	JACRANDA (12'-0" HT)	EA	35
13	PHONIX PALM	EA	19
14	FURCAREA	EA	20
15	CONOCARPUS 10 FEET	EA	475
16	ASHOKA (8'-0" TO 10'-0" HT)	EA	79
17	SPIDER LILLY	EA	200
18	PUTRENJIVA	EA	30
19	ARJUN	EA	30
20	BEL	EA	1

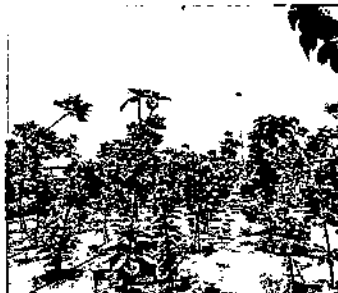
21	DATE PALM	EA	3
22	MANGO	EA	3
23	LEMON DWARF	EA	2
24	NEEM	EA	18
25	AMLA	EA	3
26	KADAMB	EA	271
27	FICUS PANDA	EA	29
28	Standkaminl (28 inch dia)	EA	6
29	plumeria Alba	EA	291
30	Bombax Cebia	EA	50
31	Ficus Infectoria (pilkhan)	EA	50
32	Furcata	EA	34
33	Cycus Revoluta	EA	16
34	Silver oak	EA	50
35	Phonix palm	EA	26
36	Bheda	EA	30
37	Neem	EA	15
38	kachnar	EA	25
39	Mango (magnetleria indica)	EA	18
40	Alestonia	EA	25
Total		EA	10783

## Green Belt Development



ADITYA BIRLA GROUP

### Periphery Plantation around the Boundary Wall



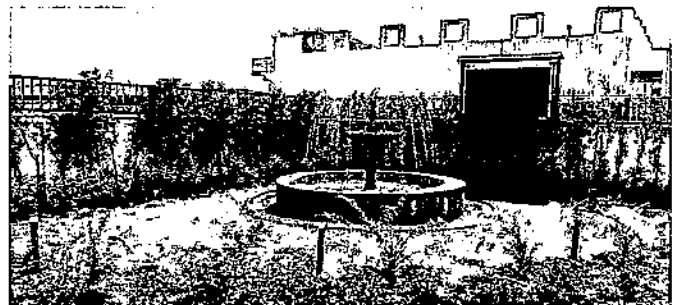
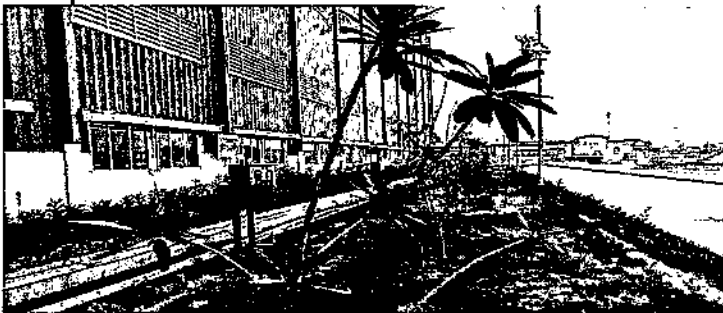


## GREEN BELT DEVELOPMENT

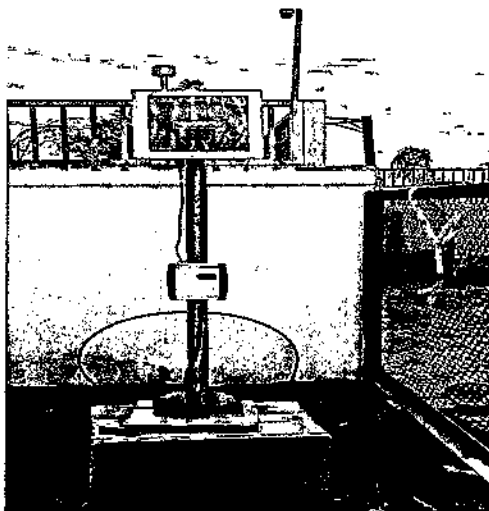


ADITYA BIRLA GROUP

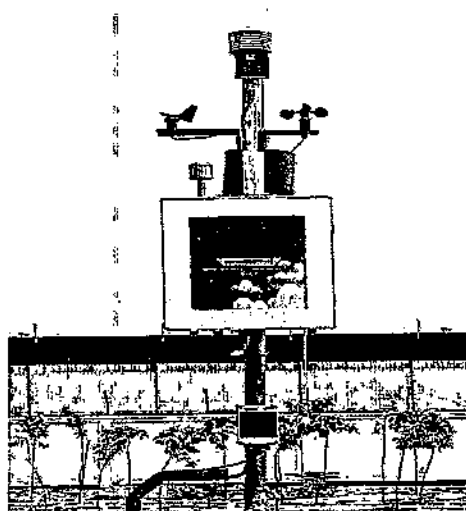
### Green Belt Landscaping Inside plant Premises



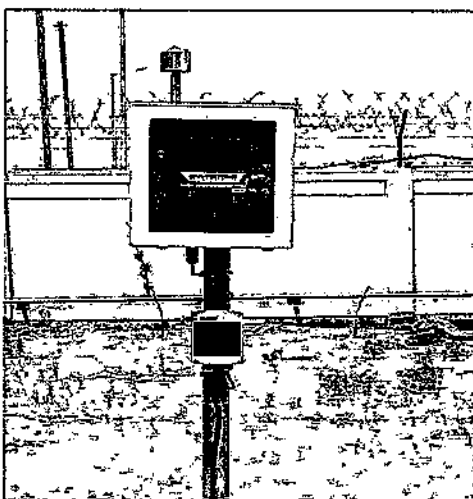
AMBIENT AIR MONITORING STATION MONITORING OF PM 2.5, PM 10, SOx and NOx



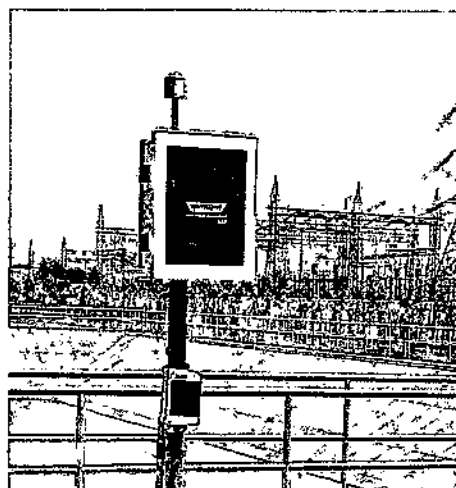
Located near Gate no 1



Located at ETP



Located at PMG



Located near Storm Tank



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## TEST REPORT



ULR No. :	TC118182400002610F	Test Report No. :	NSL210324NA029
Type of Sample : Emission Stack- Boiler			
Name & Address of Customer	Grafton Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D-02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003287 Dt: 14.02.2024
		Customer reference No. (if any)	NA
		Date of Sampling	20/03/2024
Sampling Protocol	IS 11255, CPCB: LAIS/80/2013-14	Date of Sample Receipt	21/03/2024
Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)	Period of Analysis	21/03/2024 To 28/03/2024
Source of Emission	Boiler (Sr. No. FVPL-22-3963) 2000 kg/hr	Date of Reporting	28/03/2024
Stack Description	Single, Circular & Metal	Fuel Used	HSD
Point of Sample Collection	From Port Hole	APCD Details (if provided)	NA
Standard/Specification	Emission Stack- Boiler: EPA 1981		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameters	Unit	Result	Standard	Detection Limit	Test Method
1	Particulate Matter at 12% CO <sub>2</sub> Corr.	mg/Nm <sup>3</sup>	93	500 (2 to <10 TRH)	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 3% O <sub>2</sub> Corr.	mg/Nm <sup>3</sup>	25	600	5	EL/SOP/FGA/01
3	Oxides of Nitrogen as NO <sub>x</sub> at 3% O <sub>2</sub> Corr.	mg/Nm <sup>3</sup>	208	300	5	EL/SOP/FGA/01
4	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	127	-	5	EL/SOP/FGA/01
5	Oxygen as O <sub>2</sub>	%	14.6	-	1	EL/SOP/FGA/01
6	Carbon Dioxide as CO <sub>2</sub>	%	4.9	-	1	EL/SOP/FGA/01
7	Temperature	°C	125	-	5	IS 11255 (Part 3)
8	Flue-Gas Velocity	m/s	13.70	-	3	IS 11255 (Part 3)

Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Umesh Kumar  
Authorized Signatory-Chemical



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## TEST REPORT



ULR No. :	TC118182400002609F	Test Report No. :	NSTL210324NA028
Type of Sample : Emission Stack-Boller			
Name & Address of Customer	Glasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhaniassi, Ludhiana (Punjab)	Work Order No. & Date	4900003247 Dt:14.02.2024
		Customer Reference No. (if any)	NA
		Date of Sampling	20/03/2024
Sampling Protocol	IS 11255, CPCB LATS/80/2013-14	Date of Sample Receipt	21/03/2024
Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)	Period of Analysis	21/03/2024 To 28/03/2024
Source of Emission	Boiler B (Sr.No. FVPL-22-3961) 2000 kg/hr	Date of Reporting	28/03/2024
Stack Description	Single Circular & Metal	Fuel Used	HSD T.R.A
Point of Sample Collection	From Port Hole	ABCD Details (if provided)	NA T.T.V
Standard/Specification	Emission Stack-Boller: EPA 1981		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameters	Unit	Result	Standard	Detection Limit	Test Method
1	Particulate Matter at 12% CO2 Corr.	mg/Nm3	97	500 (2 to <10 TPH)	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 3% O2 Corr.	mg/Nm3	23	600	5	EL/SOP/FGA/01
3	Oxides of Nitrogen as NOx at 3% O2 Corr.	mg/Nm3	210	300	5	EL/SOP/FGA/01
4	Carbon Monoxide as CO	mg/Nm3	122	-	5	EL/SOP/FGA/01
5	Oxygen as O2	%	14.1	-	1	EL/SOP/FGA/01
6	Carbon Dioxide as CO2	%	5.2	-	1	EL/SOP/FGA/01
7	Temperature	°C	112	-	5	IS 11255 (Part 3)
8	Flue Gas Velocity	m/s	13.06	-	3	IS 11255 (Part 3)

Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Omresh Kumar

Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

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## TEST REPORT



ULR No. :	TC1181824000002453F	Test Report No. :	NSTL160324NA057
Type of Sample : Emission Stack- DG			
Name & Address of Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D-02 P, Pandurang Budhkar Marg, HI Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900003247 DT:14.02.2024
		Customer reference No. (if any)	NA
		Date of Sampling	15/03/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	16/03/2024
Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)	Period of Analysis	16/03/2024 To 21/03/2024
Source of Emission	DG Set No.1 (2000 KVA)	Date of Reporting	21/03/2024
Stack Description	Single, Circular & Metal	Fuel Used	HSD
Point of Sample Collection	From Port Hole	APCD Details (if provided)	NA
Standard/Specification	Emission-Diesel Engine (>800 KW or 1000 KVA): EPA 1986 S.No. 96		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameters	Unit	Result	Standard	Detection Limit	Test Method
1	Particulate Matter at 15% O <sub>2</sub> Cor.	mg/Nm <sup>3</sup>	71	75	5	IS 11255 (Part 1)
2	Carbon Monoxide as CO at 15% dry O <sub>2</sub> Cor.	mg/Nm <sup>3</sup>	139	150	1	EL/SOP/FGA/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	mg/Nm <sup>3</sup>	27	-	5	EL/SOP/FGA/01
4	Carbon Dioxide as CO <sub>2</sub>	%	5.3	-	1	EL/SOP/FGA/01
5	Oxygen as O <sub>2</sub>	%	13.7	-	1	EL/SOP/FGA/01
6	Temperature	°C	200	-	5	IS 11255 (Part 3)
7	Flue Gas Velocity	m/s	17.5	-	3	IS 11255 (Part 3)

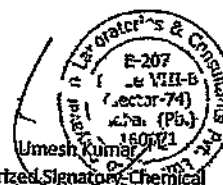
Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*





# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

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## TEST REPORT

ULR No. :	NA	Test Report No. :	NSTL160324NA057/A
Type of Sample : Emission Stack-DG			
Name & Address of Customer	Grasim Industries Ltd. (Birla Pálit's Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanasar, Ludhiana (Punjab)	Work Order No. & Date	4900003247 DT:14.02.2024
		Customer reference No. (if any)	NA
		Date of Sampling	15/03/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	16/03/2024
Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)	Period of Analysis	16/03/2024 To 21/03/2024
Source of Emission	DG Set No.1 (2000 KVA)	Date of Reporting	21/03/2024
Stack Description	Single, Circular & Metal	Fuel Used	HSD
Point of Sample Collection	From Port Hole	APCD Details (if provided)	NA
Standard/Specification	Emission- Diesel Engine (>800 KW or 1000 KVA): EPA 1986 S.No. 96		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameters	Unit	Result	Standard	Detection Limit	Test Method
1	Oxides of Nitrogen as NOX at 15% O <sub>2</sub> Cor.	ppmv	531	710	5	EL/SOP/FGA/01
2	Non-Methane Hydrocarbon as NMHC at 15% O <sub>2</sub> Cor.	mg/Nm <sup>3</sup>	42	100	1	EL-QTM-08

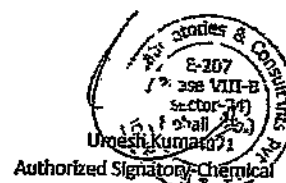
Remarks : This test report is the part of Test Report No. NSTL160324NA057.

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*





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## TEST REPORT



ULR No. :	TC118182400002454F	Test Report No. :	NSTL160324NA058
Type of Sample : Emission Stack- DG			
Name & Address of Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, Hi-Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900063247 DT:14.02.2024
		Customer reference No. (if any)	NA
		Date of Sampling	15/03/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	16/03/2024
Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)	Period of Analysis	16/03/2024 To 21/03/2024
Source of Emission	DG Set No. 2 (2000 KVA)	Date of Reporting	21/03/2024
Stack Description	Single, Circular & Metal	Fuel Used	HSD
Point of Sample Collection	From Port Hole	APCD Details (if provided)	NA
Standard/Specification	Emission- Diesel Engine (>800 KW or 1000 KVA): EPA 1986 S.No. 96		
Testing Location	On Site & Permanent Facility		

## RESULTS

### 1. Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

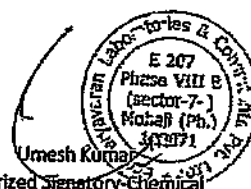
S.No.	Test Parameters	Unit	Result	Standard	Detection Limit	Test Method
1	Particulate Matter at 15% O <sub>2</sub> Cor.	mg/Nm <sup>3</sup>	69	75	5	IS 11255 (Part 1)
2	Carbon Monoxide as CO at 15% dry O <sub>2</sub> Cor.	mg/Nm <sup>3</sup>	139	150	1	EL/SOP/FGA/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	mg/Nm <sup>3</sup>	34	-	5	EL/SOP/FGA/01
4	Carbon Dioxide as CO <sub>2</sub>	%	5.0	-	1	EL/SOP/FGA/01
5	Oxygen as O <sub>2</sub>	%	14.1	-	1	EL/SOP/FGA/01
6	Temperature	°C	215	-	5	IS 11255 (Part 3)
7	Flue Gas Velocity	m/s	18.4	-	3	IS 11255 (Part 3)

Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable  
Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical

Stack-EL-FMT-7.8.2-SW

Page No. 1/1

**ECO BHAWAN** E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

☎ 0173 4616205 ☎ 0704 2004100 ✉ contact@ecoparyavaran.com ✉ info@ecoparyavaran.com ✉ www.ecoparyavaran.com



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

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## TEST REPORT

ULR No. : NA		Test Report No.: NSTL160324NA058/A	
Type of Sample : Emission Stack- DG			
Name & Address of Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P; Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	490003247 DT:14.02.2024
		Customer reference No. (if any)	NA
		Date of Sampling	15/03/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	16/03/2024
Mode of Collection of Sample	Mr. Abhishek (Eco Rep.)	Period of Analysis	16/03/2024 To 21/03/2024
Source of Emission	DG Set No.2 (2000 KVA)	Date of Reporting	21/03/2024
Stack Description	Single, Circular & Metal	Fuel Used	HSD TNA
Point of Sample Collection	From Port Hole	APCR Details (if provided)	NA
Standard/Specification	Emission- Diesel Engine (>800 KW or 1000 KVA): EPA 1986 S.No. 96		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameters	Unit	Result	Standard	Detection Limit	Test Method
1	Oxides of Nitrogen as NOX at 15% O <sub>2</sub> Cor.	ppmv	517	710	5	EL/SOP/FGA/01
2	Non-Methane Hydrocarbon as NMHC at 15% O <sub>2</sub> Cor.	mg/Nm <sup>3</sup>	45	100	1	EL-QTM-08

Remarks : This test report is the part of Test Report No. NSTL160324NA058

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*







# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

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## TEST REPORT



ULR No. :	TC118182400004594F	Test Report No. :	NSL100524NA045
Type of Sample : Emission- Process			
Name & Address of Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, Hi Tech Cycle Valley, Dhananpu, Ludhiana (Punjab)	Work Order No. & Date	4900004844 DT:29.04.2024
		Customer reference No. (if any)	NA
		Date of Sampling	10/05/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	10/05/2024
Mode of Collection of Sample	Mr. Prabhjot (Eco Rep.)	Period of Analysis	10/05/2024 To 16/05/2024
Source of Emission	EB Scrubber Stack (Process Stack)	Date of Reporting	16/05/2024
Stack Description	Single, Circular & FRP	Fuel Used	NA
Point of Sample Collection	From Port Hole after APCD	APCD Details (if provided)	Scrubber
Standard/Specification	Emission- Process: EPA 1986		
Testing Location	On Site & Permanent Facility		

## RESULTS

### 1. Chemical Testing

#### 1. Atmospheric Pollution (Process Emission)

S.No.	Test Parameters	Unit	Result	Detection Limit	Test Method
1	Ammonia as NH <sub>3</sub>	mg/Nm <sup>3</sup>	5.311	5.0	IS 11255 (Part 6)

Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Umesh Kumar  
Authorized Signatory-Chemical



# Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

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## TEST REPORT

ULR No. : NA		Test Report No. : NSTL100524NA045/A	
Type of Sample : Emission- Process			
Name & Address of Customer	Grasim Industries Ltd. (Birla Paints Division) Plot Nos. B 1 and D 02 P, Pandurang Budhkar Marg, HI Tech Cycle Valley, Dhanansu, Ludhiana (Punjab)	Work Order No. & Date	4900004844 DT:29.04.2024
		Customer reference No. (if any)	NA
		Date of Sampling	10/05/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	10/05/2024
Mode of Collection of Sample	Mr. Prabhjot (Eco Rep.)	Period of Analysis	10/05/2024 To 16/05/2024
Source of Emission	EB Scrubber Stack (Process Stack)	Date of Reporting	16/05/2024
Stack Description	Single, Circular & FRP	Fuel Used	NA
Point of Sample Collection	From Port.Hole after APCD	APCD Details (if provided)	Scrubber
Standard/Specification	Emission- Process: EPA 1986		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

#### 1. Atmospheric Pollution (Process Emission)

S.No.	Test Parameters	Unit	Result	Detection Limit	Test Method
1.	Total Volatile Organic Compound (TVOCs)	ppm	15.688	0.01	EL-QTM-04

Remarks: This report is the part of Test Report No. NSTL100524NA045.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

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

