

ENVIRONMENTAL
CLEARANCE



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), West Bengal)

To,

The Vice President Projects
GRASIM INDUSTRIES LTD.
A-2, Aditya Birla Centre, S. K. Ahire Marg Worli, Mumbai - 400030 -400030

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/WB/IND3/77270/2022 dated 30 Aug 2022. The particulars of the environmental clearance granted to the project are as below.

1. **EC Identification No.** EC22B023WB164110
2. **File No.** EN/T-II-1/037/2022
3. **Project Type** New
4. **Category** B1
5. **Project/Activity including Schedule No.** 5(h) Integrated paint industry
6. **Name of Project**
7. **Name of Company/Organization** GRASIM INDUSTRIES LTD.
8. **Location of Project** West Bengal
9. **TOR Date** 16 Jun 2022

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 06/12/2022

(e-signed)
Kaliyamurthi Balamurugan
Member Secretary
SEIAA - (West Bengal)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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Proposed conditions for Environmental Clearance for the proposed Greenfield Integrated Paint Manufacturing Facility at Plot No. H3, H4, H5, Vidyasagar Industrial Park of WBIDC, Village Baradiha & Gholagere, Taluka Kharagpur, District Paschim Medinipur, West Bengal by M/s. Grasim Industries Ltd.

Background of the project

The proponent made online application vide proposal no. SIA/WB/IND3/77270/2022 dated 30.08.2022 along with copies of EIA/EMP seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the proposed Greenfield Integrated Paint Manufacturing Facility at Plot No. H3, H4, H5, Vidyasagar Industrial Park of WBIDC, Village Baradiha & Gholagere, Taluka Kharagpur, District Paschim Medinipur, West Bengal by M/s. Grasim Industries Ltd.

The project proponent obtained ToR for the proposed project vide File No. EN/T-II-1/037/2022 dated 16.06.2022 from SEIAA, WB against proposal no. SIA/WB/IND3/77270/2022.

Salient features of the proposed project as submitted by the project proponent are as follows:

Project	Greenfield project for Integrated Paint manufacturing facility			
Location	Plot No. H3, H4, H5 –Vidyasagar Industrial Park of WBIDC, Village Baradiha & Gholagere, Taluka Kharagpur, District Paschim Medinipur, West Bengal.			
Latitude & Longitude	22°21'51.39"N & 87°22'26.62"E			
Products and capacities	Name of the products		Production capacity (KL/A)	
	Paint		3,60,000	
	Resin & Emulsion/ Water Based Polymers		1,60,000	
	Total		5,20,000	
Land area	3,47,106 sqm. i.e. 85.79 Acres / 34.7 Hectare			
Area Breakup at Project Site	Title	Area, sqm.	Area in Acre	% of total Area
	Manufacturing Area	29,076	7.18	8.38
	Storage Area (Raw Material & Finished Goods)	59,226	14.64	17.06
	Utilities Area	5,540	1.37	1.60
	ETP & STP Area	3,500	0.87	1.01
	Parking Area	31,162	7.70	8.98
	Roads, Footpath & Drainage area	54,660	13.51	15.75
	Rain water Harvesting Area	4,000	0.98	1.15
	Greenbelt	1,14,687	28.35	33.04
	Ancillary Building	17,957	4.44	5.17
	Other Area	27,298	6.75	7.86
	Total	3,47,106	85.79	100 %

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Raw material	Raw materials	Storage Quantity at a time (MT)
	Pigments	4350
	Extenders	11000
	Solvents	1200
	Additives	8000
	Monomers	2700
	Oils	1800
Fresh Water Consumption	1200 KLD from WBIDC (surface water) & SWID (ground water)	
Wastewater discharge	Zero Liquid discharge	
Solid waste generation	Hazardous waste – 602 Tonnes/annum Non-hazardous waste – 4900 Tonnes/annum	
Power requirement	Construction phase	operation phase
	750 KVA	8200 KVA
From West Bengal State Electricity Development Corporation Ltd (WBSEDCL) / West Bengal State Electricity Transmission Company Limited (WBSETCL)		
Power backup (DG Set)	Construction phase	operation phase
	5 x 500 KVA	3 x 2000 KVA (2W+1S) & 2 x 1010 KVA (1W+1S)
Cost of the project	Rs.1000 Crores	

State Level Environment Impact Assessment Authority (SEIAA), West Bengal examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI and the subsequent amendments, on the basis of above mentioned features along with other details submitted to SEIAA subject to strict compliance of the terms and conditions mentioned below.

I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule- I species in the study area)

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- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB / SPCB guidelines.
- v. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No.826(E) dated 16th November, 2009 shall be complied with.
- viii. 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.

III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel / drain carrying effluent within the premises.
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste / treated water shall be discharged outside the premises.
- iii. The effluent discharge, before being reused, shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control

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Board while granting Consent under the Air / Water Act, whichever is more stringent. No liquid discharge outside the premises is permitted.

- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority / CGWA in this regard.
- v. Process effluent / any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

IV. Noise monitoring and prevention

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

V. Energy Conservation measures

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

VI. Waste management

- i. The PP should comply with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 or any amendments thereafter.
- ii. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- iii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iv. The company shall undertake waste minimization measures as below:-
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

VII. Green Belt

- i. The green belt of 5-10 m. width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. The project proponent should follow plantation plan approved by Divisional Forest Officer, Kharagpur Division vide Memo No. 2200/13-38(A)/2022 on 02.08.2022.

VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard Identification and Risk Assessment

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(HIRA) and Disaster Management Plan shall be implemented.

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

IX. Environment Management Plan (EMP)

- i. The project proponent should submit the proposed EMP on a six monthly basis. The Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020 should be strictly followed.
- ii. Need based activities for local people is part of the EMP. Details of such activities submitted by the project proponent is given in Annexure-1.
- iii. The project proponent shall install display board for display of all the environmental parameters including sensor-based air, water and noise quality monitoring stations within their premises.
- iv. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the Ministry of Environment, Forests & Climate Change / State Environment Impact Assessment Authority / State Pollution Control Board as a part of six-monthly report.
- v. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- vi. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry of Environment, Forests & Climate Change / State Environment Impact Assessment Authority / State Pollution Control Board along with the Six Monthly Compliance Report.
- vii. Self environmental audit shall be conducted annually. Every three years third party

environmental audit shall be carried out.

X. Miscellaneous

- a) The environmental clearance accorded shall be valid for a period of 10 years for the proposed project.
- b) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- c) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- d) 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.
- e) The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- f) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions to Ministry of Environment, Forests & Climate Change / State Environment Impact Assessment Authority / State Pollution Control Board.
- g) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed. under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- h) The project proponent shall inform the State Environment Impact Assessment Authority/State Pollution Control Board, 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.
- i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- j) The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee.
- k) No further expansion or modifications in the plant shall be carried out without prior approval of the State Environment Impact Assessment Authority.
- l) 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.
- m) The State Environment Impact Assessment Authority may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- n) The State Environment Impact Assessment Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall

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implement these conditions.

- o) The State Environment Impact Assessment Authority / State Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the State Environment Impact Assessment Authority / State Pollution Control Board by furnishing the requisite data / information / monitoring reports.
- p) 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.
- q) 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.
- r) The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Arjun Kumar, Vice President - Projects
Address	A-2, Aditya Birla Centre, S.K. Ahire Marg, Worli Mumbai – 400 030, Maharashtra.
Email	purushotham.s@adityabirla.com arjun.k@adityabirla.com
Telephone Number Fax No.	022 2499 5114
Name of the Environmental Consultant	M/s. Kadam Environmental Consultants

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Annexure-1

NEED BASED ACTIVITIES.FOR LOCAL PEOPLE

S. No.	Activities	Budget Amount (INR)	Budget in %
1	1st Year		
1.1	Ambulance Car for local villages	15,00,000	35%
1.2	Infrastructure facility at Local School/Public amenities	25,00,000	
1.3	Social Awareness development Training	2,50,000	
1.4	Development for the under privileged villagers-through local authority	3,00,000	
	TOTAL	45,50,000	
2	2nd Year		
2.1	Pond restoration and embankment protection	15,00,000	35%
2.2	Skill development training program for youths	10,50,000	
2.3	Health & Hygiene (Eye Check-up Camp + Sugar Therapy + Buster dose vaccine of CORONA + Doctor Consultation & support to women health)	20,00,000	
	TOTAL	45,50,000	
3	3rd Year		
3.1	Ambulance Car for local villages	15,00,000	30%
3.2	Tree plantation at the periphery of villages – provided with plant-guards, at schools, Anjanwadi and other common places of villages	5,00,000	
3.3	Health & Hygiene (Eye Check-up Camp + Sugar Therapy + Buster dose vaccine of CORONA + Doctor Consultation & support to women health)	5,00,000	
3.4	Local School infrastructure Development	5,00,000	
3.5	Support to facilitate Drinking water Infrastructure	9,00,000	
	TOTAL	39,00,000	
	TOTAL	1,30,00,000	100%