



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

To,

The Senior General Manager  
DIGAMBER SINGH  
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/MH/IND3/68936/2021 dated 17 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

- |                                            |                                                                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. EC Identification No.                   | EC22B023MH151788                                                                                                                                                |
| 2. File No.                                | SIA/MH/IND3/68936/2021                                                                                                                                          |
| 3. Project Type                            | New                                                                                                                                                             |
| 4. Category                                | B1                                                                                                                                                              |
| 5. Project/Activity including Schedule No. | 5(h) Integrated paint industry                                                                                                                                  |
| 6. Name of Project                         | EC for Proposed Integrated Paint Manufacturing Facility at Plot No. A-1, MIDC Mahad, Village Kamble Tarfe Birwadi, Taluka Mahad & District Raigad, Maharashtra. |
| 7. Name of Company/Organization            | DIGAMBER SINGH                                                                                                                                                  |
| 8. Location of Project                     | Maharashtra                                                                                                                                                     |
| 9. TOR Date                                | 10 Jan 2022                                                                                                                                                     |

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

Date: 24/08/2022

(e-signed)  
Manisha Patankar Mhaiskar  
Member Secretary  
SEIAA - (Maharashtra)

*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.*

*This is a computer generated cover page.*



**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

No. SIA/MH/IND/68936/2022  
Environment & Climate Change Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya, Mumbai- 400032.

To  
M/S. Grasim Industries Ltd  
Plot No. A-1, MIDC Mahad,  
Village Kamble Tarfe Birwadi,  
Taluka Mahad & Dist- Raigad

**Subject:** Environmental Clearance for Proposed Integrated Paint Manufacturing Facility at Plot No. A-1, MIDC Mahad, Village Kamble Tarfe Birwadi, Taluka Mahad & Dist- Raigad by M/S. Grasim Industries Ltd

**Reference:** Application no. SIA/MH/IND/68936/2022

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 226<sup>th</sup> meeting held on 25<sup>th</sup> & 27<sup>th</sup> July, 2022 under screening category 5(h), B1 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 248<sup>th</sup> (Day-1) meeting of State Level Environment Impact Assessment Authority (SEIAA) held on 17<sup>th</sup> August 2022.

2. Brief Information of the project submitted by you is as below:-

Sr. No.	Particulars Required	Details																																																						
1	Name of the project & Address along with all corner latitude and longitude	<p>Proposed Greenfield Integrated Paint Manufacturing Facility at Plot No. A-1, MIDC-Mahad Industrial Area, Village Kamble Tarfe Birwadi, Taluka Mahad, District Raigad, Maharashtra by M/s. Grasim Industries Limited.</p> <p><b>All Corner latitude and of project site:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td>A</td><td>18°06'09.14"N</td><td>73°28'37.84"E</td></tr> <tr><td>B</td><td>18°06'44.00"N</td><td>73°28'51.24"E</td></tr> <tr><td>C</td><td>18°06'44.52"N</td><td>73°28'50.20"E</td></tr> <tr><td>D</td><td>18°06'44.64"N</td><td>73°28'48.96"E</td></tr> <tr><td>E</td><td>18°06'44.29"N</td><td>73°28'47.52"E</td></tr> <tr><td>F</td><td>18°06'44.10"N</td><td>73°28'45.90"E</td></tr> <tr><td>G</td><td>18°06'45.19"N</td><td>73°28'42.93"E</td></tr> <tr><td>H</td><td>18°06'44.18"N</td><td>73°28'41.61"E</td></tr> <tr><td>I</td><td>18°06'43.35"N</td><td>73°28'41.40"E</td></tr> <tr><td>J</td><td>18°06'42.13"N</td><td>73°28'40.77"E</td></tr> <tr><td>K</td><td>18°06'40.95"N</td><td>73°28'38.32"E</td></tr> <tr><td>L</td><td>18°06'40.69"N</td><td>73°28'37.58"E</td></tr> <tr><td>M</td><td>18°06'40.94"N</td><td>73°28'36.23"E</td></tr> <tr><td>N</td><td>18°06'19.07"N</td><td>73°28'27.81"E</td></tr> <tr><td>O</td><td>18°06'12.81"N</td><td>73°28'29.67"E</td></tr> <tr><td>P</td><td>18°06'12.32"N</td><td>73°28'29.81"E</td></tr> <tr><td>Q</td><td>18°06'11.54"N</td><td>73°28'30.04"E</td></tr> </tbody> </table>		Latitude	Longitude	A	18°06'09.14"N	73°28'37.84"E	B	18°06'44.00"N	73°28'51.24"E	C	18°06'44.52"N	73°28'50.20"E	D	18°06'44.64"N	73°28'48.96"E	E	18°06'44.29"N	73°28'47.52"E	F	18°06'44.10"N	73°28'45.90"E	G	18°06'45.19"N	73°28'42.93"E	H	18°06'44.18"N	73°28'41.61"E	I	18°06'43.35"N	73°28'41.40"E	J	18°06'42.13"N	73°28'40.77"E	K	18°06'40.95"N	73°28'38.32"E	L	18°06'40.69"N	73°28'37.58"E	M	18°06'40.94"N	73°28'36.23"E	N	18°06'19.07"N	73°28'27.81"E	O	18°06'12.81"N	73°28'29.67"E	P	18°06'12.32"N	73°28'29.81"E	Q	18°06'11.54"N	73°28'30.04"E
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2	Type of Organization (Private / Government / Semi Government etc.)	Private		
3	Correspondence Address and contact details of Project Proponent	Mr. Chaitanya C. Kurle (Senior General Manager, Grasim Industries Limited) A-2, Aditya Birla Centre, S. K. Ahire Marg, Worli, Mumbai -400030 Email: <a href="mailto:chaitanya.kurle@adityabirla.com">chaitanya.kurle@adityabirla.com</a> Contact no.: (M)7767032682		
4	Type of project ( ToR/EC/Amendment in ToR/Amendment in EC/ Revalidation/ Expansion/Process change etc.)	EC(Environmental Clearance)		
5	Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A,B,B1,B2 etc. whichever is applicable)	Scheduled Activity: 5(h) Category: 'B1'		
6	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.)	Yes ToR letter No. SIA/MH/IND3/68936/2021		
7	If earlier EC is obtained pl. mention EC Number & Date	N.A		
8	Whether the proposal is a violation case (yes/no)	NO		
9	Applicability of CRZ clearance (yes /no)	NO		
10	Whether General /Specific Conditions are applicable to the project (Yes/No) If yes pl. give details	NO		
11	Whether Scrutiny fees paid as per SEIAA guidelines(Yes/No); If yes pl. give payment details	YES Payment Details: Amount: INR 30,00,000/- Date: 29.10.2021 UTR number: HDFCR52021102974390830 SAP Doc. No: 5102102628 (HDFC Bank)		
12	Name of accredited Environmental Consultant & address along with Accreditation No. & Validity	Name: M/s. Kadam Environmental Consultants Address: 871/B /3, GIDC, Makarpura, Vadodara-390010 NABET Certificate no.: NABET/EIA/2023/SA 0164 Valid up to: 19.03.2023		
13	Name of layout plan approving Authority	Maharashtra Industrial Development Corporation (MIDC)		
14	Estimated cost of Project (in Rs. Lakhs)	Rs. 134000 Lakh		
15	Area of project (in Sq.m.)	4,07,384 m <sup>2</sup> (i.e. 100.67 Acre, 40.73 Hectare)		
16	Whether 33% green belt is provided (Yes/No)	YES		
17	Area of Green Belt & No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area)	Greenbelt area: 1,34,439 m <sup>2</sup> i.e. 33.21 acres (~33 % of total plot area) Nos. of Trees proposed: 27,000 trees (considering 2000 trees per ha)		
18	Width of internal roads and turning radius	Internal Road Width: 7.2 m Turning radius: 9 meter		
19	Details of proposed construction	Total Built-up Area (in sq.m)	2,23,244 sq.m	
		No. of Buildings & its height in mtrs.	Admin building,	

						Factory building (inclusive of raw material, packing material and finished goods storage areas), Utility block, STP, ETP, Security cabins, etc. will be constructed.
20	List of Raw materials & Storage Details (Pl. add on in the list if necessary)			Details are as per table given below:		
Sr. No.	Raw Materials	Consumption Quantity (MT/M)	Maximum Storage Details	Hazard Category	Proposed Precautions to prevent accident	Remarks
1	Pigments such as Rutile (TiO <sub>2</sub> ) various grades, middle chrome, Redoxide, etc.	8437.5	Silos /Hoppers	Low Flammability	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
2	Extenders such as China clay, Calcium carbonate, Silica, Marble powder, Dolomite, etc.	17291.6	Silos /Hoppers	Low Flammability	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
3	Polyols such as Phthalic anhydride, Pentaerythritol, Maleic anhydride, benzoic acid, sodium bicarbonate, etc.	900	Silos /Hoppers/Bags	Low Flammability Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
4	Colored pigments such as Blue, Green, Lemon chrome, yellow oxide, carbon black, etc.	500	Bags	Low Flammability	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
5	Additives such as Natrosol, Di-ammonium phosphate, sodium benzoate, Hydroxy ethyl cellulose, etc.	609.41	Bags	Low Flammability Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
6	Solvents such as Mineral turpentine,	4800	Tanks	High Flammability	Fire Hydrant System	Storage of

	Xylene, Dipentine, MCEE 10, etc.				Installed, Emergency Exit & Assembly Points provided. Appropriate Dyke wall provided.	Solvents will be in separate Solvent tank farm area.
7	Driers and additives such as Calcium octoate, Cobalt octoate, Ropaque Op60, Soya fatty acid, Indofil 850, etc.	5850	Tanks	Moderate Flammability Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
8	Monomers such as Methyl Methacrylate, 2-Ethyl hexyl acrylate, Butyl acrylate, Styrene, etc.	7200	Tanks	High Flammability	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided. Appropriate Dyke wall provided.	Storage of Solvents will be in separate Solvent tank farm area.
9	Oils such as Raw linseed oil, Castor oil, Soyabean oil, etc.	1350	Tanks	No Specific Hazard	---	---
10	Polyols such as Propylene glycol, Liquor ammonia, Texanol, etc.	731.2	Tanks	Low Flammability Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
11	Additives/Biocides such as Nipacide DFX, Dapro, Neopon, Thorew paste, etc.	780	Barrel	Low Flammability Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
12	Pigments such as Yellow fine paste, Blue fine paste, Red fine paste, etc.	243.75	Barrel	Low Flammability	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
13	Additives such as Morpholene, Benzyl alc, Glycerine, etc.	195	Barrel	Moderate Flammability Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
14	Resin (Other than in-house manufactured)	45	Barrel	Moderate Health Hazard	Fire Hydrant System Installed, Emergency Exit & Assembly Points provided	
15	Solvent MPA 60	8.3	Barrel	High	Fire Hydrant	

				Flammability	System Installed, Emergency Exit & Assembly Points provided. Appropriate Dyke wall provided.			
21		Production Details			As per below table:			
S. No.	Name of Products/ Intermediates	Existing Capacity MT/M	Proposed Capacity MT/M	Total capacity (MT/M)	Name of Product approving authority (Like FDA of Pharmaceuticals etc.)			
1.	Water Based Paint	0	400 MLPA	400 MLPA				
2.	Solvent Based Paint	0	100 MLPA	100 MLPA				
3.	Emulsion	0	150 MLPA	150 MLPA				
4.	Resin	0	70 MLPA	70 MLPA				
	Total	0	720 MLPA	720 MLPA				
22		Water Consumption & Effluent generation (All units in CMD)						
		i)Source & Quantity of water requirement (in CMD) :			<p>Source of water: MIDC (Maharashtra Industrial Development Corporation), Mahad  <b>Total Water Supply by MIDC: 1200 CMD</b>  <b>Total Fresh water requirement from MIDC: 1156 KLD</b>  <b>Recycled water from RO, MEE &amp; ATFD : 116 KLD</b>  <b>Reused water from Industrial activity: 124 KLD</b>  <b>Reused water from domestic activity (STP treated water): 23 KLD</b>  Water requirement table is given below:</p>			
		Water Consumption					Waste water Generation	
No.	Description	Fresh	Industrial Reused	Losses	Domestic Recycled	Industrial Recycled	Domestic Waste water generation	Industrial Waste water generation
	C1	C2	C3	C4	C5	C7	C8	C9
1	Water Filtration plant	856 (A)	0	0	0		0	7
1.1	DM/RO Plant	366	0	0	0	0	0	73
1.2	Emulsion Block	250	0	0	0	0	0	0.3
1.3	Boiler	40	34	5	0	0	0	1
1.4	Other process block	250	90	0	0	0	0	7
1.5	Drinking	3	0	0	0	0	0	0
1.6	Process Wash Water	100	0	2	0	0	0	8

	1.7	Cooling Tower	104	0	200	0	116	0	20	
	1.8	Scrubber	5	0	2	0	0	0	3	
	1.9	Domestic	24	0	1	0	0	23	0	
	2	Green belt	300 (B)	0	0	23	0	0	0	
		<b>Total</b>	<b>1156 (A+B)</b>	<b>124</b>	<b>210</b>	<b>23</b>	<b>116</b>	<b>23</b>	<b>120</b>	
	ii) Water supply permission obtained (Yes/No) & approving Authority :						Yes, Application submitted Approving Authority: MIDC (Maharashtra Industrial Development Corporation), Mahad			
23	Quantity of sewage generation (in CMD)						23 KLD			
24	Details of Sewage Treatment and Disposal of treated sewage:						The domestic sewage from various blocks such as administration building, canteen, toilets & washrooms for truck drivers & cleaners is treated in to STP of 30KLD capacity Treated sewage water will be completely reused for gardening within plant premises.			
25	Detail of Effluent Generation (unit CMD)									
	<b>Particulars</b>		<b>Existing</b>		<b>Proposed</b>		<b>Total(KLD)</b>			
	a) Qty. of Effluent generation:		0		120		120			
	b) Qty. of high TDS/COD effluent:		0		6		6			
	c) Qty. of low TDS/COD effluent:		0		114		114			
26	Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/No)						Yes			
27	Brief Description of Effluent Treatment scheme									
	<p>Industrial effluent will be segregated at source based on pollution load and separate treatment were given as below:</p> <p><b>High COD Streams:</b> Effluent generated form resin plant will be treated separately by advanced oxidation treatment. The treated effluent then will be sent to equalization tank where other low COD streams to be added for further treatment. Sludge generated from the advanced oxidation treatment will be send to filter press via sludge collection sump.</p> <p><b>Low COD streams:</b> Low COD streams consists other process water, utility blow downs and washing water.</p> <p>The combined effluent will be treated in proposed ETP consisting primary, secondary and tertiary treatment.</p> <p>For achieving ZLD, the treated wastewater from ETP will be subjected to DT-RO systems.</p> <p><b>Tertiary Recycling RO System:</b> The treated waste water from the ETP will be taken to RO feed tank. RO will be proposed with an efficiency of 85-90%. The Permeate water from the RO will be recycled into plant area and reject water from RO will transferred to MEE for further evaporation and removal of salts form the water.</p> <p><b>MEE Feed Tank:</b> The RO reject water will collect into MEE feed tank. MEE will be proposed for the concentration of aqueous solutions. Evaporation is carried out by supplying heat to the solution to vaporize the solvent. The heat is supplied basically to provide the latent heat of vaporization and by adopting methods for recovery of heat from the vapour, it has been possible to achieve great economy in heat utilization.</p> <p>The condensate from MEE will be recycled and reused in plant while salts from the MEE will be disposed into TSDF after passing from ATFD.</p> <p>Sludge generated from the ETP will be send to filter press via sludge collection sump and then dried sludge will be disposed at approved TSDF facility.</p>									
28	Qty of treated effluent proposed to be sent to						Nil			

	CETP (pl. mention Name of CETP and its membership Details)																																																													
29	Please mention parameters of treated effluent to be achieved as per EP Rule, 1986 and or stipulated by the SPCB																																																													
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30	Brief Note on proposed Rainwater harvesting scheme along with budget allocation:	<p>Rooftop water harvesting reservoir will be provided with size of 4800 m<sup>3</sup> &amp; 8800 m<sup>3</sup> at project site. Budget: Approximately 2.5 Cr</p>																																																												
31	Solid Waste management	As per below table:																																																												
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3.	Metal Waste	42	Maintenance or fabrication	Disposed through SPCB authorized recyclers	Recycle																																																									
4.	Plastic RM containers	7417	Production Block	Sent to suppliers / SPCB authorized recyclers	Recycle																																																									
5.	Metal RM containers	1750	Production Block	Sent to suppliers / SPCB authorized recyclers	Recycle																																																									
6	Powder Waste	44	Production Block	Sent to suppliers / SPCB authorized recyclers	Recycle																																																									
7.	Wooden Waste	242	Packing Materials / Pallets / Furniture	Will be sent to SPCB authorized recyclers	Recycle																																																									
8.	Miscellaneous (cartons/sample Tins/Cans)	42	Sampling / Testing	Sent to suppliers / recyclers	Recycle																																																									
9.	Organic	8.2	Canteen	will be composted and used as manure for green belt development .	Recycle																																																									
32	<b>Hazardous Waste Generation &amp; Disposal (As</b>	As per below table:																																																												



per HW Rule 2016)							
S. No.	Hazardous Waste Category	Particulars	Source of Generation (please include name of product)	Existing Quantity of generation MT/M	Proposed Quantity and generation MT/M	Total Quantity and generation MT/Month	Method and disposal as per HW rules 2016
1	3.3	Sludge and filters contaminated with oil	Soil contaminated with any material	0	1.25	1.25	Collected in barrel. Collection, Storage, Disposal and Transportation to active TSDF/ co-processing to nearby Cement Industry
2	21.1	Process wastes, residue and sludge (Filler Residue)	Paint Manufacturing Process	0	10	10	Packed in bag. Collection, Storage, Disposal and Transportation to active TSDF/ co-processing to nearby Cement Industry
3	35.1	Flue gas cleaning residue	Soot / carbon black	0	0.8	0.8	Transportation to active TSDF/ co-processing to nearby Cement Industry
4	35.2	Spent Ion Exchange Resin containing toxic metals	Resin beads	0	1.6	1.6	Transportation to active TSDF/ co-processing to nearby Cement Industry
5	35.3	Chemical sludge from waste-water treatment	ETP	0	16.6	16.6	Transportation to active TSDF/ co-processing to nearby Cement Industry
6	35.4	Oil and Grease skimming residue	Floating oil from ETP/STP	0	1.6	1.6	Collected in barrel. Collection, Storage, Disposal and Transportation to active TSDF/ co-processing to nearby Cement Industry

7	36.2	Spent Carbon	Used carbon granules from common scrubbers & STP/ETP	0	0.8	0.8	Packed in bag. Collection, Storage, Disposal and Transportation to active co-processing to nearby Cement Industry / TSDF as landfilling
8	34.1	Chemical containing residue arising from decontamination	Paint Manufacturing Process	0	2.08	2.08	
9	3.1	Contaminated oil with wash water & sludge	All Tanks (other than water) bottom sludge	0	1.25	1.25	
10	15.2	Discarded Asbestos	Discarded Asbestos Panels, Used Asbestos Gaskets /cuttings	0	0.16	0.16	
11	20.3	Distillation Residues	Solvent recovery plant	0	7.9	7.9	Collected in barrel. Collection, Storage, Disposal and Transportation to active co-processing to nearby Cement Industry / TSDF as landfilling
12	5.1	Used / Spent Oil	DG set, Compressor, gear box	0	4.16	4.16	Collected in barrel. Collection, Storage and sale to MPCB approved authorised recycler
13	20.1	Contaminated aromatic, aliphatic or naphthenic solvents, may or may not be fit for reuse	manufacturing process	0	14.16	14.16	
14	23.1	Wastes or residues such as	paint manufacturing	0	7.5	7.5	Packed in bag. Storage,

			filter aid	process					Disposal and Transportation to active TSDF/ co-processing to nearby Cement Industry
15	33.1	Discarded Container/ Drum	paint manufacturing process	0	10	10			De-contamination followed by storage in designated place in scrap yard. Sale to MPCB approved authorised recycler
16	33.1	Discarded containers / barrels /liners contaminated with hazardous wastes / chemicals	paint manufacturing process	0	6667 Nos./Month	6667 Nos./Month			Packed in bag. Sale to MPCB approved authorised recycler
17	Schedule III, Part A, Basel No. A1160	Lead Acid Batteries	Used /Waste lead acid batteries	0	42 No/Month	42 No/Month			in designated place. Sale to MPCB approved authorised recycler

33 Fuel Consumption As per below table:

Sr. No.	Type of Fuel used	Consumption Quantity			Used for (Boiler/DG set)	Ash%			SO2%			Air Pollution control equipment provided (Yes/ No)
		Existing	Proposed	Total		Existing	Proposed	Total	Existing	Proposed	Total	
<b>Construction Phase</b>												
		Existing	Proposed	Total		Existing	Proposed	Total	Existing	Proposed	Total	

	1	H S D	0	260 LPH	26 0 LP H	D.G Sets	-	-	-	-	0.1	0. 1	Yes ,adeq uate stack heigh t
<b>Operation Phase</b>													
	1	H S D	0	2080 LPH	20 80 LP H	D.G Sets	-	-	-	-	0.1	0. 1	
	2	H S D	0	7300 LPD	73 00 LP D	Boiler	-	-	-	-	0.1	0. 1	Yes ,adeq uate stack heigh t
	3	H S D			LPD	Boiler (MEE )	-	-	-	-	0.1	0. 1	
	4	H S D	0	580 LPH	58 0 LP H	Therm opack	-	-	-	-	0.1	0. 1	
34	Brief Note on Air Pollution Control equipment's						<ul style="list-style-type: none"> <li>The control of air pollution from stacks of diesel generators, steam boilers, thermopack will be proposed by providing adequate stack height to attain maximum dispersion of flue gases containing SPM, SO<sub>2</sub>, NO<sub>x</sub> and CO.</li> <li>During charging, dust collection and fine particle filtration systems will be installed to trap the particulate matter thus allowing only clean air to be discharged into the atmosphere.</li> <li>Carbon bed along with wet scrubbers with stack height of 3 m ARL will be provided in water based, solvent based, resin &amp; emulsion blocks respectively. Vents with bag filters / reverse jet filters will be provided to control PM emissions.</li> </ul>						
<b>Stack Details (Also include process vent details)</b>						As per below table:							
<b>Details of Flue Gas Stacks</b>													
Sr. No.	Section/Unit	Source pollution	Stack No.s	Stack Height	Height from Ground	Internal diameter inch	Temperature of exhaust gas						
<b>Construction Phase</b>													
1	DG Sets 2 x 500 kVA		2	5m- agl	5m- agl	7.08	450 °c at manifold						
<b>Operation Phase</b>													
1	DG Sets 4 x 2000 kVA DG (3W+1S)2 x 1010 KVA		6	30m - agl	30m - agl	11.8	450 °c at manifold						
2	Boiler		4	30m-	30m-	21.66	120 °c						

	4 x 2000 kg/hr (3W+1S)			agl	agl		
3	Boiler (MEE) 1 x 500 kg/hr boiler		1	30m-agl	30m-agl	7.08	120 °c
4	Thermopack 4 x 20 Lakh Kilo Cal/hr (3W+1S)		4	30m-agl	30m-agl	21.66	120 °c

**Details of Process Vents**

Sr. No.	Section/Unit	Source pollution	Stack No.s	Stack Height	Height from Ground	Internal diameter inch	Temperature of exhaust gas
1	Water Base Block	NH <sub>3</sub>	2	3 m above roof			
2	Solvent paint block	VOC/H C	2	3 m above roof			
3	Emulsion Block	NH <sub>3</sub> /VOC/H C	2	3 m above roof			
4	Resin Bock	VOC/H C	2	3 m above roof			
5	Dust Collectors	PM	15	3 m above roof			

36	<b>Energy</b>																						
	a)Source of power Supply :	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)																					
	b)Maximum Demand (KVA) :	Construction phase:750KVA Operation Phase:8200 kVA																					
	c)whether DG sets will be provided (Yes/No): if yes :	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>No. Of DG sets</th> <th>Capacity</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align:center;">Construction phase</td> </tr> <tr> <td></td> <td>Existin g</td> <td>Propose d</td> </tr> <tr> <td>1</td> <td>0</td> <td>2</td> </tr> <tr> <td colspan="3" style="text-align:center;">Operation phase</td> </tr> <tr> <td>2</td> <td>0</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>4 x 2000 KVA (3 working &amp; 1 Standby) and 2 x 1010 kVA (1 W + 1S) capacity during power</td> </tr> </tbody> </table>	Sr. No.	No. Of DG sets	Capacity	Construction phase				Existin g	Propose d	1	0	2	Operation phase			2	0	6			4 x 2000 KVA (3 working & 1 Standby) and 2 x 1010 kVA (1 W + 1S) capacity during power
Sr. No.	No. Of DG sets	Capacity																					
Construction phase																							
	Existin g	Propose d																					
1	0	2																					
Operation phase																							
2	0	6																					
		4 x 2000 KVA (3 working & 1 Standby) and 2 x 1010 kVA (1 W + 1S) capacity during power																					

					failure & emergency use.
	d) Please Mention if high tension line is passing through the plot: No If yes, pl. give details of safety measures adopted: not applicable				
37	<b>Details of use of renewable energy with budget allocation</b>				
	i) Total Energy Demand :		8200 kVA		
	ii) Proposed renewable energy source capacity :		installation of 300 nos. of solar street lights		
	iii) Proposed Budget (in Rs. Lakhs):		Approx 75 Lakhs		
	iv) Timeline for implementation :		within 3 years from the commissioning of the project		
38	Details of public hearing (if applicable)		<p>The proposed project site is located in Maharashtra Industrial Development Corporation (MIDC) Mahad Area at Kambale Tarfe Birwadi Village, Taluka Mahad, District Raigad, Maharashtra. As per MOEFCC Office Memorandum No. J-11011/321/2016 -IA. II (I) dated 27<sup>th</sup> April 2018 exemption of public consultation is provided to project located within Industrial estate which were notified prior to EIA notification 2006 came in to effect.</p> <p>The project is already located in MIDC, Mahad area for hence public consultation is not applicable to the project, same is covered in point no. 38 of ToR issued by SEIAA.</p>		
39	EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)				
	<b>For Construction Phase:</b>				
	<b>S. No.</b>	<b>Attributes</b>	<b>Specific Measures</b>	<b>Budget in Rs. Lakh</b>	<b>Remarks</b>
	1	Air	Spraying of water during construction and wheel washing system for the dust suppression during the construction	9	
	2	Water	Provision of the onsite Mobile Toilets and Mobile STPs for the construction workers	20	
	3	Noise	Noise Barricading Sheets	5	
	4	Soil	Preserving top-soil for the later use in green belt by storing at a temporary place	2	
	5	Solid Waste	C&D Waste Management (Collection, Handling, Storage, Transportation & Disposal) cost Segregation of the solid waste in wet and dry waste	40	
	6	Hazardous waste			

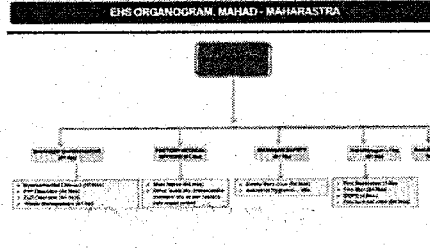
		and provision of the separate bins for the same		
7	Fuel & Energy			
8	Safety & Health	Employee Health Check-up and onsite OHC with ambulance Provision of the PPE kit for the workers such as safety harness, safety goggles, safety helmets, gloves etc.	40	

**For Operation Phase:**

S. No	Attributes	Specific Measures	Budget in Rs. Lakh	Time line for 1/5 implement	Responsibility	Remarks
9	Air Emission Management	Cost of stack monitoring, device calibration and maintenance, Carbon foot print monitoring	1100	Will be implemented at earliest and not late than three years of Commencement	GIL	
10	Water Pollution Control and water conservation Management	Installation of ETP, STP, Manpower cost, cost of chemicals, CEMS, etc. Rain-water harvesting and water conservation efforts cost	1850	Will be implemented at earliest and not late than three years of Commencement	GIL	
11	Noise Management	Installation of Acoustic enclosure	30	Will be implemented at earliest and not late than three years of Commencement	GIL	
12	Solid and hazardous waste management	Membership of TSDF, storage area for different type of waste	425	Will be implemented at earliest and not late than three years of Commencement	GIL	
13	Greenbelt	Greenbelt development cost	67	Will be implemented at earliest and not late than three years of Commencement	GIL	

	14	Renewable Energy Initiatives	Solar Street Lights, solar water heaters etc.	30	Will be implemented at earliest and not late than three years of Commencement	GIL	
	15	Occupational health	Occupational Health care centre, Ambulance	80	Will be implemented at earliest and not late than three years of Commencement	GIL	
	16	Fire and safety	Fire Hydrant, Sprinkler network, detector, protection and alarm system, Fire tender cum emergency rescue vehicles, safety feature on various equipment, machineries, tanks and other areas. Emergency and rescue devices and equipment	1850	Will be implemented at earliest and not late than three years of Commencement	GIL	
40	Other Relevant Information : (Pl. provide brief note on proposed project)						
41	Details of skill development program within Organization				At Grasim Industries Limited, we create and support opportunities for continuous learning, helping people grow both professionally and personally. These opportunities, we believe, help bring out the best in them. Each of our businesses have a dedicated Learning and Development Team responsible for designing and executing programs that help our people build capabilities at an accelerated pace. There are regular e-learning sessions, webinars, classroom workshops and business simulations to choose from, as well as the opportunity to attend a number of online study modules offered by Harvard.		



42	Details of environmental Monitoring Cell (Pl. provide organogram with educated Qualification and experience )	
43	Details of court cases if pending in any Hon'ble court	No litigation pending

3. The proposal has been considered by SEIAA in its 248<sup>th</sup> (Day-1) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions

**Specific Conditions:**

**SEAC Conditions**

1. PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions preferably on the periphery of the plot with the provision of drip irrigation, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc
2. PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. to reduce operation cost and use of natural resources.
3. PP to provide 30 KLD capacity sewage treatment plant for the treatment of domestic sewage.
4. PP to ensure to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.
5. PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
6. PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB.
7. PP proposes to plant 27000 trees within the plot area on mandatory 33% (1,34,439 Sq.m.) green belt area. PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.
8. PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.
9. PP to provide adequate facilities to the construction workers on site like safe and clean drinking water, Mobile toilets. PP to provide organic waste convertor for management of organic waste on site during construction phase.

10. PP to ensure to prepare and implement On-site and Off-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.
11. PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
12. PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.
13. PP to utilize CER funds of Rs. 6.7 Cr. for the development of public infrastructure, water bodies rejuvenation, nature based solutions near the project area in consultation with District Administration..
14. PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

**SEIAA Conditions:**

1. PP submitted MIDC plan dated 06.06.2022. As per the said plan total plot area is 4,07,384.00 m<sup>2</sup> and green belt area provided is 1,34,439.00 m<sup>2</sup> i.e. 33 % of total plot area.
2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peepal, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
3. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
4. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
5. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
6. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
7. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
8. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.
9. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
10. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
11. PP to provide roof top Rain Water Harvesting facility.
12. PP to ensure that proposed project is ZLD.

## General Conditions:

- I. The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at <http://parivesh.nic.in>
- II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1st December of each calendar year.
- III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.
- IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.
- V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.
- VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.
- VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.
- VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.
- X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.
- XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.
- XII. The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under

EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.


6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Manisha Patankar Mhaiskar  
(Member Secretary, 23/08/2022)

Copy to:

1. Chairman, SEIAA (Maharashtra), Mumbai.
2. Secretary, MoEF & CC, IA- Division MOEF & CC
3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
4. Regional Office MoEF & CC, Nagpur
5. District Collector, Raigad
6. Regional Officer, Maharashtra Pollution Control Board, Navi Mumbai

