

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC- 2013/CR-242/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 8th October, 2015

To,
M/s Privi Organics Ltd
Privi House, A-71, TTC, Thane Belapur Road,
Near Kopar Khairane Railway station,
Navi Mumbai-400709

Subject: Environment clearance for proposed aroma chemical production capacity in Unit I on Plot No. A-7, MIDC area, Mahad, Dist Raigad by M/s. Privi Organics Ltd.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006. by the State Level Expert Appraisal Committee-I. Maharashtra in its 98th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 87th meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 5(f) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

1.	Name of Project	Expansion of Aroma Chemical Production Capacity in Unit I of Privi Organics Ltd, Plot No A-7, MIDC Area, Mahad. Dist. Raigad
2.	Project Proponent	Mr. D.B. Rao Designation: Executive Director M/s Privi Organics Ltd
3.	Consultants	M/s. Green Circle Inc.
5.	New Project / Expansion in existing project/ Modernization/ Diversification in exiting project	Expansion
6.	If expansion/ Diversification, whether environmental clearance	-

	has been obtained for existing project (If yes, enclose a copy with compliance table)					
7.	Activity schedule in the EIA Notification	5(F) Category B as per the provision of "EIA Notification No. S.O. 1533 (E)" dated 14.09.2006; amended on December 01, 2009.				
8.	Area Details	<ul style="list-style-type: none"> ➤ Total plot area (sq. m.): 6525 ➤ Built up area (Sq. m.): 2823 				
9.	Name of the Notified Industrial area / MIDC area	Maharashtra Industrial Development Corporation (MIDC) Tal-Mahad, Dist- Raigad				
10.	TOR given by SEAC? (If yeas then specify the meeting)	No				
11.	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Sr.no.	Description	Amount in Lacs		
		1	Land & Building	5.82		
		2	Building (Factory + Office + Warehouse)	40.32		
		3	Plant & Machinery	340.46		
		4	Piping + Electrical + Instrumentations + Painting + Erection & Commissioning	69.3		
	Total	455.90				
12.	Location details of the project :	<ul style="list-style-type: none"> ➤ Latitude: 18°06.509'N ➤ Longitude: 73°28.864' E ➤ Location: MIDC, Mahad, Dist- Raigad ➤ Elevation above Mean Sea Level (m): 22.86 				
13.	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	No, Protected areas/ Critically polluted areas/ Eco- Sensitive areas/ inter- state boundaries present in an around the study area of Project.				
14.	Raw materials (including process chemicals, Catalysts & additives).	List of raw materials to be used	Physical and chemical nature of raw material	Quantity (tonnes/year) full production capacity	Source of materi als	Means of transportat ion (Source to storage site) with justification
		Attached as Annexure I				
15.	Production details	Name of Products, By products and	Existing (T/Year)	Proposed activity (new/modernization)	Total (T/Year)	

		Intermediate Products		/ expansion) (T/Year)																								
		Main Products																										
		By-Products	Attached as Annexure II																									
		Intermediate Products																										
16.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> ➤ Level of the Ground water table: 5.0 to 6.0 m ➤ Size and no of RWH tank(s) and Quantity: One tank (145 KL) ➤ Location of the RWH tank(s): At the lowest point on plot ➤ Size, nos of recharge pits and Quantity: Not permitted ➤ Budgetary allocation (Capital cost and O&M cost): Capital Cost (Lacs): 2.5 Lacs Recurring Cost (Lacs): 0.25 Lacs 																										
17.	Total Water Requirement	<p>Total water requirement:</p> <ul style="list-style-type: none"> • Fresh water (CMD): Existing- 277.5 + Propose- 43.47 & Source: MIDC Water Supply, Total: 320.97 • Recycled water (CMD): 5.0 <p>Use of the water</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Process (CMD)</td> <td>88.82</td> </tr> <tr> <td>Cooling water (CMD)</td> <td>170.69</td> </tr> <tr> <td>DM Water (CMD)</td> <td>-</td> </tr> <tr> <td>Dust Suppression (CMD)</td> <td>-</td> </tr> <tr> <td>Drinking (CMD)</td> <td>Included in domestic requirement</td> </tr> <tr> <td>Green belt (CMD)</td> <td>5.0 (Recycle)</td> </tr> <tr> <td>Fire service (CMD)</td> <td>-</td> </tr> <tr> <td>Domestic (CMD)</td> <td>12.5</td> </tr> <tr> <td>Boiler (CMD)</td> <td>48.96</td> </tr> <tr> <td>Others (CMD)</td> <td>-</td> </tr> <tr> <td>Total</td> <td>320.97</td> </tr> </table>					Process (CMD)	88.82	Cooling water (CMD)	170.69	DM Water (CMD)	-	Dust Suppression (CMD)	-	Drinking (CMD)	Included in domestic requirement	Green belt (CMD)	5.0 (Recycle)	Fire service (CMD)	-	Domestic (CMD)	12.5	Boiler (CMD)	48.96	Others (CMD)	-	Total	320.97
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18.	Storm water drainage	<ul style="list-style-type: none"> • Natural water drainage pattern 	<p>The industry is located in Mahad MIDC area where all the facilities are available by MIDC. The land is having gentle slope. Runoff from surrounding areas ultimately joins to Savitri river and Kal through medium and small shallow streams.</p>																									
		<ul style="list-style-type: none"> • quantity of storm water: 1984.3 (generated during monsoon) • Size of SWD: 160m² 																										
19.	Sweage generation and treatment	<ul style="list-style-type: none"> • Amount of Sweage generation (CMD): 10 CMD • Proposed treatment for the Sweage: Soak pit and Septic tank • Capacity of the STP (CMD) (If applicable): N/A 																										
20.	Effluent characteristic	Sr. No.	Parameters	Inlet effluent Characteristic	Outlet effluent Characteristic	MPCB Standard																						

		1	pH	4-6	7-7.5	5.5-9																																																		
		2	COD	2000-3500	220	250																																																		
		3	BOD	900-1800	25	30																																																		
		4	NH ₄ ⁺ - N	5-10	2	50																																																		
		5	Oil & Grease	15-20	Nil	10																																																		
		6	TDS	3000-4000	1300	2100																																																		
21.	ETP details	<ul style="list-style-type: none"> • Amount of effluent generation (CMD): 122.24 (unit-1) + 143.8 (unit-3) Total: 266.0 m³ • Capacity of the ETP (CMD): 300 m³ • Amount of treated effluent recycled (CMD): 5.0(unit-1)+ 38.8 (unit-3) Total: 43.8 m³ • Amount of water send to the CETP (CMD): 221.0 • Membership of the CETP (If require): If yes then attach the letter submit the letter Attached as Annexure VI 																																																						
22.	Note on ETP technology to be used	The ETP is comprise of oil & grease trap chamber and equalization cum neutralization chamber in unit-1 and then forwarded to unit-3 in primary, secondary & tertiary treatment units viz. equalization tank, neutralization tank, aeration tank, primary & secondary clarifiers and final collection sump. A tertiary treatment in pressure sand filter and activated carbon filter would confirm the effluent characteristics to MPCB norms.																																																						
23.	Disposal of the ETP sludge (If applicable)	Forwarded to CHWTSDF																																																						
24.	Solid waste Management	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Source</th> <th>Qty in TPM (Existing+ Proposed)</th> <th>Form(Sludge / Dry /Slurry etc.)</th> <th>Composition</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Non-Hazardous Waste</td> </tr> <tr> <td>1</td> <td>Utility</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Boiler ash</td> <td>135</td> <td>Dry & Solid</td> <td>-</td> </tr> <tr> <td></td> <td>Insulation</td> <td>0.054</td> <td>Dry & Solid</td> <td>-</td> </tr> <tr> <td>2</td> <td>Process & Utility</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>MS Scrap</td> <td>15.50</td> <td>Dry & Solid</td> <td>-</td> </tr> <tr> <td>3</td> <td>Canteen</td> <td>0.45</td> <td>Dry/Slurry & Solid</td> <td>-</td> </tr> <tr> <td>4</td> <td>Office</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(Paper, wood waste,</td> <td>4.20</td> <td>Dry & Solid</td> <td>-</td> </tr> </tbody> </table>					Sr. No	Source	Qty in TPM (Existing+ Proposed)	Form(Sludge / Dry /Slurry etc.)	Composition	Non-Hazardous Waste					1	Utility					Boiler ash	135	Dry & Solid	-		Insulation	0.054	Dry & Solid	-	2	Process & Utility					MS Scrap	15.50	Dry & Solid	-	3	Canteen	0.45	Dry/Slurry & Solid	-	4	Office					(Paper, wood waste,	4.20	Dry & Solid	-
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	Plastic etc.)			
Hazardous Waste				
S. no	Type & Category of hazardous waste	Quantity		
1	Cat.no.-34.3 ETP Sludge	10MT/M		
2	Cat.no.-20.1 Residue and hydrocarbon	0.72MT/M		
3	Cat.no.-33.3 Discarded Containers	Drums	200nos/M	
		IBCs	10nos/M	
		Carboys	50nos/M	
4	Cat.no.- 5.1 Spent oil	0.6 MT/M		
5	Cat.no.- 36.1 Sludge from MEE	0.9MT/M		
6	Battery rules,2002: Lead acid batteries	05Nos/A		
7	Cat.no.-5.2 Waste or residue containing oil	50Kg/M		
8	E-waste 2011- e-waste	30Kg/M		

- If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures.

Disposal Method: Sale to authorize party or forwarded to CHWTSDf, Taloja

- Possible users of solid waste

Boiler ash Sale to Brick Manufacture/Land filling and canteen waste sale to Vermiculture

- Method of disposal of solid waste
Sale to authorize party

25.	Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Sr. No	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (Unit)
			SPM	Boiler 8TPH	0.6619	126 mg/Nm ³
			SO ₂		0.2345	26.5 ppm
			NO _x			Nil
			CO			Nil
			Others			Nil
			SPM	Boiler 3TPH	0.5313	124 mg/Nm ³
			SO ₂		0.2105	19.5 ppm
			NO _x			Nil
			CO			Nil
			Others			Nil

			SPM	DG set	0.0506	106 mg/Nm ³	
			SO ₂	380 KVA	0.0173	12.8 ppm	
			NO _x			Nil	
			CO			Nil	
			SPM	DG set	0.0529	110 mg/Nm ³	
			SO ₂	380 KVA	0.0195	14.1 ppm	
			NO _x			Nil	
			CO			Nil	
26.	<p>Stack emission Details: (All the stacks attached to process units. Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO₂, NO_x etc. should be specified</p>	Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate Kg/hr	Temp. of Exhaust Gases (°C)
		Boiler 8 TPH (Coal fired)	1	42.0	0.950	SPM:0.6619 SO ₂ :0.2345 NO _x : CO: Others:	160
		Boiler 3TPH (Oil Fired)	2	13.0	0.550	SPM:0.5313 SO ₂ :0.2105 NO _x : CO: Others:	160
		DG set 380 KVA	3	4.0	0.15	SPM:0.0506 SO ₂ :0.0173 NO _x : CO: Others:	150
		DG set 380 KVA	4	4.0	0.15	SPM:0.0529 SO ₂ :0.0195 NO _x : CO: Others:	150
27.	Emission Standard	Pollutants	Emission Standard Limit (mg/Nm ³)	Proposed Limit (mg/Nm ³)	MPCB Consent (mg/Nm ³)		
		SPM/TPM	-	Not to exceed	150		

31.	Green Belt Development	<ul style="list-style-type: none"> • Green belt area (Sq. m.): 21.0 • Number and species of trees to be planted: 85 nos • Number, size, age and species of trees to be cut, trees to be transplanted: No tree to Cut 				
32	Details of Pollution Control Systems:		Sr. No.		Existing pollution control system	Proposed to be installed
			1	Air	Stack	-
			2	Water	ETP	-
			3	Noise	Acoustic	Acoustic
			4	Solid Waste	Proper storage	Proper storage
33	Environmental Management plan Budgetary Allocation	<ul style="list-style-type: none"> • Capital cost (With break up): 34.7 Lakhs (Opera+ Const) • O&M cost (With break up): 38.09 Lakhs (Operation) 				
		Sr. No.	Description	Recurring Cost in lacs per annum	Capital Cost in lacs	
		1	Air Pollution Control	5.0	5.0	
		2	Water Pollution Control	25.0	2.0	
		3	Noise Pollution Control	0.25	-	
		4	Environment Monitoring and Management	1.56	3.0	
		5	Reclamation borrow/mined area (If applicable)	-	-	
		6	Occupational Health	3.45	4.0	
		7	Green Belt	0.58	1.0	
		8	Solid waste management	2.0	5.0	
		9	Rain water harvesting	0.25	2.5	
		9	Others	0.0	10.0	
			Total	38.09	32.5	
		Construction				
		Sr. No.	Description	Recurring Cost per annum	Capital Cost	
		1	Dust Suppression during	-	0.2	

			costruction		
		2	Green Belt development	-	0.25
		3	Solid waste management	-	1.0
		4	Environment Monitoring	-	0.25
		5	Occupational Health	-	0.5
			Total		2.2
34.	EIA Submitted (If yes then submit the salient features)	<ul style="list-style-type: none"> •Period of data collected 		March 2013 to May 2013	
		<ul style="list-style-type: none"> •Details of the primary data collection (i.e. location of the sample collection, number of visit, etc) 			
		<ul style="list-style-type: none"> •Details of the secondary data collection (i.e. Source and year of data) 		India Meteorological Department, Pune National remote sensing centre, Hydrabad Geological Survey of India, Pune (Year- 2011) Directorate of Census Operations, Maharashtra (Year- 2001 & 2011)	
35	Public hearing report (If public hearing conducted then submit the salient features)	<ul style="list-style-type: none"> •Date of the public hearing 		Not applicable, project site is located in MIDC Mahad.	
		<ul style="list-style-type: none"> •Name of the news paper in which the advertisement appeared (Please attach the copy) 			
		<ul style="list-style-type: none"> •Location of the public hearing 			
		<ul style="list-style-type: none"> •Number of people attended the hearing 			
		<ul style="list-style-type: none"> •Objection(s) / Suggestion(s) if any 			
36	Air pollution, water pollution issues in the project area, If any	Not, applicable Proposed project site is located in MIDC Mahad area			

List of Raw Materials

S. No	Product	Raw Materials	Consumption (MT /M)	Source	Type of Hazard	Transportation	Storage Condition
1	Amber fleur & Derivatives	Myrcene	367.60	Self made/Import / Domestic Market	Flammable	Road ways	Tank
2		MPO	268.80	Domestic Market	Flammable	Road ways	Tank
3		Boron trifluoride etherate	22.80	Domestic Market	Corrosive	Road ways	Drum
4		Sodium chloride (Salt)	2.40	Domestic Market	-	Road ways	Bag
5		Antioxidant	0.80	Domestic Market	Flammable	Road ways	Bag
6		Toluene	116.0	Domestic Market	High Flammable	Road ways	Tank
7		Phosphoric acid	42.0	Domestic Market	Corrosive	Road ways	Tank
8		Caustic soda	4.5	Domestic Market	Corrosive	Road ways	Bag
9		Sodium chloride (Salt)	1.60	Domestic Market	--	Road ways	Bag
10	Amber gamma	Myrcene	51.75	Self made/Import / Domestic Market	Flammable	Road ways	Tank
11		MPO	37.85	Domestic Market	Flammable	Road ways	Tank
12		Boron trifluoride etherate	3.25	Domestic Market	Corrosive	Road ways	Drum
13		Sodium chloride (Salt)	0.30	Domestic Market	-	Road ways	Bag
14		Antioxidant	0.10	Domestic Market	Flammable	Road ways	Bag
15		Toluene	61.90	Domestic Market	High Flammable	Road ways	Tank
16		Phosphoric acid	24.25	Domestic Market	Corrosive	Road ways	Tank
17		Caustic soda	0.11	Domestic Market	Corrosive	Road ways	Bag
18		Salt	0.05	Domestic	Flammable	Road ways	Bag

				Market	le		
19	Myrcene 90/Myrcene Supra	Myrcene	73.55	Self made/Import / Domestic Market	Flammable	Road ways	Tank
20	L-Limonene	PCM tops	100.0	Self made	Flammable	Road ways	Tank
21	Aldehyde C 11	Undecylenic acid	21.66	Domestic Market	-	Road ways	Drum
22		Formic acid	11.35	Domestic Market	Corrosive	Road ways	Drum
23		Methanol	7.56	Domestic Market	Flammable	Road ways	Tank
24		Paraffin	2.58	Domestic Market	-	Road ways	Drum
25		Catalyst MC	1.24	Domestic Market	-	Road ways	Drum
26		Soda ash	0.21	Domestic Market	Corrosive	Road ways	Bag
27		Salt	1.03	Domestic Market	-	Road ways	Bag
28	Citral extra pure	Citral	30.03	Domestic Market	Irritant	Road ways	Tank

List of Products & By-products
Products

S.N	Product	Category	Qty in MT/M		
			Existing Qty MTPM	Proposed Qty MTPM	Total Qty MTPM
1	Amber Fluer and its derivatives	Aroma Product	237.0	163	400.0
2	Amber gamma	Aroma Product	0.0	50.0	50.0
3	Myrcene 90 /Myrcene Supra	Aroma Product	0.0	50	50.0
4	L-Limonene	Aroma Product	0.0	25.0	25.0
5	Aldehyde C11	Aroma Product	0.0	12.0	12.0
6	Citral extra Pure	Aroma Product	0.0	30.0	30.0
7	Citronellol	Aroma Product	10	0	10
8	Geraniol	Aroma Product	0.5	0	0.5
9	PTBCHA	Aroma Product	0.5	0	0.5

10	Styrallyl Acetate	Aroma Product	0.5	0	0.5
11	Geranyl nitrile	Aroma Product	0.5	0	0.5
12	Citronellal Acetate	Aroma Product	0.4	0	0.4
13	Geranyl Acetate	Aroma Product	0.5	0	0.5
14	Ionones	Aroma Product	1	0	1
15	Dihydro Myrcenol	Aroma Product	1	0	1
16	Alpha Camphenelic Aldehyde Derivatives	Aroma Product	1	0	1
18	Rose Oxide	Aroma Product	0.5	0	0.5
19	Indian Sandle Fluer	Aroma Product	1	0	1
20	Indian Sandle Core	Aroma Product	9	0	9
21	Indian Sandle Touch	Aroma Product	0.5	0	0.5
22	GMI, NMI, AI, BI.	Aroma Product	6	0	6
		TOTAL	269.9	330	599.9

By-Products

S.No.	Products	By-Products	Existing Quantity (MT/M)	Proposed Quantity (MT/M)	Total Qty in (MT/M)	Utilization
1.	Amberfleur & Derivatives	Aqueous Fluoboric acid (Fluoroboric acid)	0.0	115.88	115.88	Sale to PCB registered party
2.		Spent Acid Layer (Spent phosphoric Acid)/Sodium Phosphate	40.0	40.0	80.0	Sale to PCB registered party
3.		Recovered Toluene	0.0	111.51	111.51	Reuse or Sale to PCB registered party
4.		Column Tops	0.0	120.41	120.41	Sale to PCB registered party
5.		Column	0.0	86.50	86.50	Sale to PCB registered party

		Bottom mass				
6.	Amber Gamma	Aqueous Fluoboric acid (Fluoroboric acid)	0.0	16.30	16.30	Sale to PCB registered party
7.		Spent Acid Layer (Spent phosphoric acid)/Sodium Phosphate	0.0	24.30	24.30	Sale to PCB registered party
8.		Recovered Toluene	0.0	60.15	60.15	Reuse or Sale to PCB registered party
9.		Column Tops	0.0	20.25	20.25	Sale to PCB registered party
10.		Column Bottom mass	0.0	15.65	15.65	Sale to PCB registered party
11.	Myrcene 90/Myrcene Supra	Column Tops	0.0	13.8	13.8	Sale to PCB registered party
12.		Column Bottom mass	0.0	8.30	8.30	Sale to PCB registered party
13.	L-Limonene	Column Tops	0.0	61.6	61.6	Sale to PCB registered party
14.		Column Bottom mass	0.0	11.50	11.50	Sale to PCB registered part
	Aldehyde C11	Column tops	0.0	1.8	1.8	sale to PCB registered party
		Column bottom mass	0.0	6.7	6.7	sale to PCB registered party
		Reaction bottom mass	0.0	4.0	4.0	sale to PCB registered party
1.	Existing Byproducts	Rose Dial	2.2	0.0	2.2	Sale to PCB registered party
2.		Spent Sulphuric Acid	475.0	0.0	475.0	Sale to PCB registered party
3		Tops and Residues	20.0	0.0	20.	Sale to PCB registered party

3. The proposal has been considered by SEIAA in its 87th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

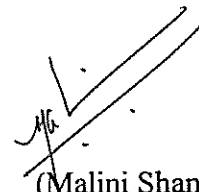
General Conditions for Pre- construction phase:-

- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (v) Proper Housekeeping programmers shall be implemented.
- (vi) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
- (vii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)
- (viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (ix) Arrangement shall be made that effluent and storm water does not get mixed.
- (x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xi) Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xiii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.

- (xviii) The company shall undertake following Waste Minimization Measures :
- Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
- (xix) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxiv) The project management 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 clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxv) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxviii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxix) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
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. The Environment department reserves the right 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.
6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 7 years as per MoEF&CC Notification dated 29th April, 2015 to start of production operations.
7. 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.
8. 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.
9. Any appeal against this environmental 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.



(Malini Shankar)
Member Secretary, SEIAA.

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).

6. Regional Office, MPCB, Raigad.
7. Collector, Raigad
8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
9. Select file (TC-3)

(EC uploaded on 15/10/2015)



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