ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)

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

To,

The Executive Director

M/S. AQUILA ORGANICS PVT. LTD.

101-104, Sunrise Business Park, Road No 16, Wagle Industrial area, Thane west, Maharashtra. -400604

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/IND3/76296/2021 dated 06 May 2022. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC22B021MH173067**
2.	**File No.**	SIA/MH/IND3/76296/2021
3.	**Project Type**	New
4.	**Category**	B1
5.	**Project/Activity including Schedule No.**	5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk
6.	**Name of Project**	Establishment of Synthetic Organic Aromatic Chemicals manufacturing unit by M/s. Aquila Organics Pvt. Ltd., located at Plot No. G-17, MIDC-Lote Parshuram,Tal.: Khed, Dist.: Ratnagiri, Maharashtra State.
7.	**Name of Company/Organization**	M/S. AQUILA ORGANICS PVT. LTD.
8.	**Location of Project**	Maharashtra
9.	**TOR Date**	30 Dec 2021

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

(e-signed)
Pravin C. Darade , I.A.S.
Member Secretary
SEIAA - (Maharashtra)

Date: 07/12/2022

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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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/IND3/76296/2021
Environment & Climate Change Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.

To
M/s. Aquila Organics Pvt. Ltd.
Plot No. G-17, MIDC-Lote Parshuram,
Tal.: Khed, Dist.: Ratnagiri

Subject: Environmental Clearance for Establishment of Synthetic Organic Aromatic Chemicals manufacturing unit by located at Plot No. G-17, MIDC-Lote Parshuram,Tal.: Khed, Dist.: Ratnagiri by M/s. Aquila Organics Pvt. Ltd.
Reference: Application no. SIA/MH/IND3/76296/2021

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 228th meeting held on 13th to 16th September, 2022 under screening category 5(f), B1 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 253rd (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA) held on 10th November 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	**M/s. Aquila Organics Pvt. Ltd.(AOPL),** Plot No. G-17, MIDC-Lote Parshuram, Tal.: Khed, Dist.: Ratnagiri, Maharashtra State. i. Lat- 17°35'54.27"N, Long- 73°29'0.77"E ii. Lat- 17°35'50.66"N, Lon- 73°28'59.41"E iii. Lat- 17°35'48.21"N, Long- 73°28'54.13"E iv. Lat- 17°35'51.23"N, Long- 73°28'52.90"E
2	Type of Organization (Private / Government / Semi Government etc.)	**Private**
3	Correspondence Address and contact details of Project Proponent.	**M/s. Aquila Organics Pvt. Ltd.,** **Address:** Plot No. G-17, MIDC-Lote Parshuram, Tal.: Khed, Dist.: Ratnagiri, Maharashtra State. **Contact Details:** 9137797339
4	Type of project	EC

	(ToR / EC / Amendment in ToR / Amendment in EC / Revalidation / Expansion / Process change etc.)	
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)	Environmental Impact Assessment (EIA) Notification No. S.O. 1533 (E) dated 14.09.2006 and amendments thereto issued by the Ministry of Environment, Forest and Climate Change (MoEFCC); New Delhi, the proposed project comes under **Category - B1, Item No.: 5 (f)**
6	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC / EAC Meeting No.)	Standard Terms of Reference (ToRs) issued by State Level Environment Impact Assessment Authority (SEIAA) vide File No. SIA/MH/IND3/70265/2021 dated 30.12.2021 to **M/s. Aquila Organics Pvt. Ltd.**
7	If earlier EC is obtained pl. mention EC Number & Date	**Not Applicable since new establishment project.**
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	Yes 1. Bank Name - Bank of India 2. UTR/RRN Sr. no./IFT Ref No. – CMS1642217240644

	SEIAA guidelines (Yes/No); If yes pl give payment details	3. Date of payment – 13.06.2022 4. Amount paid - Rs. 1,50,000/-
12	Name of accredited Environmental Consultant & address along with Accreditation No. & Validity.	**Accredited Environmental Consultant**: Equinox Environments India Pvt. Ltd. **Address:** F-11, Namdev Nest, 1160-B, 'E' ward, Sykes Extension, Opp. Kamala College, Kolhapur- 416 001. **Accreditation No.:** NABET/EIA/1821/RA-0135 valid till 04.10.2022
13	Name of layout plan approving Authority	Lote- Parsuram MIDC
14	Estimated cost of Project (in Rs. Lakhs)	Rs. 9.6 Cr.
15	Area of project (in Sq.m.)	20,000 Sq. M
16	Whether 33% green belt is provided (Yes/No)	Since the proposed project is a new establishment, the industry has planned to develop **6608.75 Sq. M** of Green belt area. **(33 % of Total Plot Area)**
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)	Area of Green Belt: **6608.75 Sq. M** Proposed No. of Trees: 1652
18	Width of internal roads and turning radius	Width of internal roads: 6 M Turning Radius: 9 M
19	Details of proposed construction	**Total Built-up Area (in Sq.M)** — **4336.81 Sq. M** **No. of Buildings & its height in meter.** — --

20 **List of Raw materials & Storage Details (Pl. add on in the list if necessary)**

S. N	Name of Raw material	Consumption (MT/M)	Max. Storage Details	Hazard category	Proposed precautions to prevent accident	Remarks
1	Mesityl oxide	2750	19250	**Flammable liquid**	**Organizational Controls:** 1.Labelling of content	**Have a flash point:** Higher
2	Triethyl ortho formate	1825	12775			
3	BF3 Etherate	275	1925			

	4	Methyl Cyclohexane	4850.1	33950.7		2.Physical Data 3.Chemical Data 4. Tox. Data **Precautions:** 1.Store in the underground tanks With Vent & Flame Arrester 2.Restricted Entry 3.Area under lock and key with Surveillance Camera 4.Well equipped with firefighting systems **Organizational Controls:** 1.Labelling of content 2.Physical Data 3.Chemical Data 4. Tox. Data **Precautions:** 1.Store in the underground tanks With Vent & Flame Arrester 2.Restricted Entry 3.Area under lock and key with Surveillance Camera 4.Well equipped with firefighting systems	than 60°C but lower than 90°C **Threshold quantity:** 15000 MT **Note:** Industrial site storage is well within **Have a flash point:** Higher than 60°C but lower than 90°C **Threshold quantity:** 15000 MT **Note:** Industrial site storage is well within
	5	Methyl Octenone	250.5	1753.5			
	6	B- Cyclocitral	380	2660			
	7	Liquid Bromine	425	2975			
	8	Carbon Tetrachloride	380	2660			
	9	Hydrotropic aldehyde	92.4	646.8			
	10	Citronellal	400	2800			
	11	Acetic anhydride	1151.2	8058.4			
	12	Triethyl amine	572.0	4004			
	13	Toluene	6766.1	47362.7			
	14	Petroleum ether	50.8	355.6			
	15	p-tert.Butyl m-xylene	74.6	522.2			
	16	Methyl n-Propyl Ketone	264	1848			
	17	Hexylene glycol	5.9	41.3			
	18	Acetic acid	1315.6	9209.2			
	19	Methylene Chloride	30.2	211.4			
	20	Cyclohexanone	550	3850			
	21	Benzyl Cyanide	896	6272			
	22	Ortho Cresol	34.6	242.2			
	23	Methanol	5602	39214	**Flammable liquid/ gas**		
	24	MCH	1500	10500			
	26	Vinyl ethyl ether	141.68	991.76			
	27	Boron trifluoride-ethyl ether	15	105			
	28	Butanal	253.26	1772.82			
	29	MTBE	210	1470			
	30	Trans-2-Hexanal	351	2457			
	31	4-Ethyl benzyl chloride	48.3	338.1			
	32	Acetic Acid	3107.5	21752.5			
	33	Hydrochloric	526.5	3685.5			

			Acid				
		34	Isobutyl aniline	283.38	1983.66		
		35	Boron trifluoride – ethyl ether	1.98	13.86		
		36	Glycerine	435.9	3051.3		
		37	DCPD	1180	8260		
		38	Formic Acid	906.6	6346.2		
		39	DCPD Formate	500	3500		
		40	Hydrogen Gas	152.61	1068.27		
		41	DH DCPD	400	2800		
		42	Ethanol	906.6	6346.2		
		43	Acetaldehyde	44.5	311.5		
		44	Rosyrane	3611.4	25279.8		
		45	Isobutyraldehyde	31.5	220.5		
		46	Isopropyl alcohol	2451.96	17163.72		
		47	Citral	318.8	2231.6		
		50	Benzaldehyde	890.4	6232.8		
		51	Chloroform	1008	7056	**Flammable liquid/gas**	**Organizational Controls:** 1.Labelling of content 2.Physical Data 3.Chemical Data 4. Tox. Data **Precautions:** 1.Store in the underground tanks. With Vent & Flame Arrester 2.Restricted Entry 3.Area under lock and key with Surveillance Camera 4.Well equipped with firefighting systems	**Have a flash point:** Higher than 60°C but lower than 90°C **Threshold quantity:** 15000 MT **Note:** Industrial site storage is well within
		52	Acetic Anhydride	865.2	6056.4			
		53	4-Methyl Benzaldehyde	586.8	4107.6			
		54	Methyl Mono chloro Acetate	537.9	3765.3			
		55	Sodium Methoxide	293.4	2053.8			
		56	Cumene	1082.00	7574			
		57	Cyclododecanol	3410.1	23870.7			
		58	Ethylal	4225.5	29578.5			
		59	Cyclodemol	500	3500			
		60	2-Methyl propylene oxide	276.06	1932.42			
		61	Propanoic anhydride	6.42	44.94			
		63	Hexane / Mentrolium Ether	33.5	234.5			
		64	Heptylidene Cyclopentane	1.1	7.7			
		65	Benzene	2100.0	14700			
		66	Benzyl Chloride	1804.2	12629.4			

	67	EDC	769	5383			
	68	Phenyl Acetaldehyde	1020	7140			
	69	Myrac Aldehyde	54.6	382.2			
	70	Acetophenone	2085	14595			
	71	Ethyl Chloro Acetate	1703.7	11925.9			
	72	4-Isopropyl acetophenone	54.6	382.2			
	73	3-Hexenol	200	1400			
	74	Di- Methyl Carbonate	1600	11200			
	76	Dimethyl sulfate	2100	14700			
	77	TEBA	13.4	93.8	Toxic	**Precautions:** 1.Store in the isolated & well ventilated storage place 2.Antidotes information to be displayed in the area 3.Restricted Entry 4.Area under lock and key 5.Survillence Camera provision 6.Well equipped with firefighting systems 7. MSDS and handling SOPs to be provided at the entry point of the area.	**Dermal toxicity LD50:** 200-1000 mg / kg **Inhalation toxicity LC50:** 2-10mg/l **Threshold quantity:** 5 - 500 MT **Note:** Industrial site storage is well within MSIHC limits
	78	Salt	518.9	3632.3			
	79	HCl	26	182			
	80	Isobutyric Acid	475	3325			
	81	Benzyl Benzoate	430	3010			
	82	Gum Benzoin	525	3675			
	83	Caustic Soda	610	4270			
	86	Sodium Bi Carbonate	5000	35000			
	87	Silica Alumina Catalyst	1136.1	7952.7			
	88	Chloro Acetic Acid	1791	12537			
	89	Pentylidene Cyclopentanone	110.5	773.5			
	90	Triethanol Amine	3.71	25.97			
	91	Hexylidene Cyclopentano	105	735			
	92	Sodium acetate	3750.0	26250			
	93	Zinc Chloride	96	672			
	94	Pentamethyl Indane	173.0	1211			
	95	Zinc Chloride	21.0	147			
	96	Sodium Methoxide	476.0	3332			
	97	2,3-dimethyl-I-butene	27.7	193.9			
	98	Ruthenium on	3.5	24.5			

			Carbon				
		99	Sodium Hypochlorite	316.8	2217.6		
		100	Sulphuric Acid	2343.84	16406.88		
		101	Indene	75	525		
		102	Paraformaldehyde	19.3	135.1		
		103	Boron trifluoride	39.5	276.5		
		104	Cyclododecanone	54.6	382.2		
		106	Trimethyl Formate	24.4	170.8		
		107	Geraniol	105.0	735	**Toxic**	**Precautions:** 1.Store in the isolated & well ventilated storage place 2.Antidotes information to be displayed in the area 3.Restricted Entry 4.Area under lock and key 5.Survillence Camera provision 6.Well equipped with firefighting systems 7. MSDS and handling SOPs to be provided at the entry point of the area.	**Dermal toxicity LD50:** 200-1000 mg / kg **Inhalation toxicity LC50:** 2-10mg/l **Threshold quantity:** 5 - 500 MT **Note:** Industrial site storage is well within MSIHC limits
		108	Ru-Catalyst	1.7	11.9		
		109	Lithium Carbonate	380	2660		
		110	Allyl Chloride	72.2	505.4		
		111	Sodium Borohydride	70.4	492.8		
		112	Palladium on Carbon	86.7	606.9		
		113	Sodium Hydroxide Solution	1198.09	8386.63		
		114	Hydrochloric Acid	1195.3	8367.1		
		115	Aluminium Chloride	580.4	4062.8		
		116	Propionyl Chloride	57.1	399.7		
		117	PTSA	194.152	1359.064		
		118	85% H3PO4	368.3	2578.1		
		119	Na metal	294	2058		
		120	Soda ash	351.78	2462.46		
		121	Acetyl Chloride	244.5	1711.5		
		122	Potassium hydroxide	554.3	3880.1		
		124	Raney Nickel	38.243	267.701		
		125	Sodium Carbonate Sol	2862.3	20036.1		

21 **Production Details**

No	Name of the Product	Quantity (MT/A)	CAS No.	End Use
1	Kephalis	102	36306-87-3	Products are used in variety of applications as under: - 1. Aroma Chemicals 2. Perfumery ingredients 3. Fixatives Additives in Pharm & Food Additives in Textile, Pulp, Papers 4. Flavoring and Fragrance agent
2	Safranal	24	116-26-7	
3	Norlimbanol	48	70788-30-6	
4	Peonile	300	10461-98-0	
5	Trans-2-Hexenal	10	6728-26-3	
6	Trans-2-Hexenol	10	928-95-0	
7	Isobutyl Quinoline	10	65442-31-1	
8	Isopropyl Quinoline	10	135-79-5	
9	Fruitate	102	80623-07-0, 80657-64-3	
10	Phenoxanol	1000	55066-48-3	
11	Timberol	10	70788-30-6	
12	Rose Crystal	504	90-17-5	
13	Syringaldehyde	50	134-96-3	
14	Boisambrene forte	1000	58567-11-6	
15	Helvetolide	40	141773-73-1	
16	Styrene oxide	2400	96-09-3	
17	Phenyl Ethyl Alcohol	3000	60-12-8	
18	Phenyl Acetaldehyde	60	122-78-1	
19	Phenyl Ethyl Ethyl Ether	24	1817-90-9	
20	Phenyl Acetaldehyde Dimethyl Acetal (PADMA)	240	101-48-4	
21	Aldehyde C16	2160	77-83-8	
22	Liffavert	12	67633-96-9	
23	Phenyl Ethyl Methyl Ether	600	3558-60-9	
24	Phenyl Ethyl Acetate	600	103-45-7	
25	Phenyl Ethyl Isobutyrate	240	103-48-0	
26	Resinoid Benzoin	24	---	
27	Benzoin extract	24	---	
28	Labdanum Resinoid	24	8016-26-0	
29	Labdanum Absolute	12	---	
30	Labdanum Extract	24	---	
31	Ethyl Mono Chloro Acetate (EMCA)	2400	105-39-5	
32	Isopropyl Chloro Acetate (IPCA)	2400	96-34-4	
33	Aldemax	120	67715-79-1	
34	Emeraldine	120	5612-44-2.	
35	Delphone	12	4819-67-4	
36	Hexyl Cyclopentanone	12	13074-65-2	
37	Heptyl Cyclopentanone	12	137-03-1	

38	Diphenyl methane	240	101-81-5	
39	Iriswood	6	28068-91-9	
40	Magnolan	6	27606-09-3	
41	Indoflor	6	18096-62-3	
42	Madrox	6	37514-30-0	
43	L-Citronellol	12	7540-51-4	
44	Rhubafuran	12	82461-14-1	
45	Floralazone	6	67634-15-5	
46	4-Isopropyl acetophenone (4-IPAP)	30	645-13-6	
47	4-Methyl acetophenone (4-MAP)	12	122-00-9	
48	4-Methyl propiophenone (4-MPP)	12	5337-93-9	
49	Cyclomyral	6	68738-94-3	
50	Mugetanol	6	63767-86-2	
51	Orinox	12	2040-10-0	
52	Melonal	24	106-72-9	
53	Benzyl Acetate	600	140-11-4	
54	Hydrotropic Aldehyde	60	93-53-8	
55	Cashmeran	12	33704-61-9	
56	Compound AQ (High Boiler)	100	---	
	Total	**18908**		

22 Water Consumption & Effluent generation (All units in CMD)

i. Source & Qty of water requirement (in CMD): Fresh water is taken from MIDC Water Supply.

ii. Water supply permission obtained (Yes/No) & approving Authority: Yes.

Particulars	**Consumption** (CMD)			**Loss** (CMD)			**Effluent generation** (CMD)		
	Existing	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	--	3	3	--	0.5	0.5	--	2.5	2.5
Processing	--	33	33	--	-27	-27	--	60	60
Scrubber	--	5	5	--	0	0	--	5	5
Lab & Washing	--	5	5	--	0	0	--	5	5
Cooling Make up	--	50	50	--	40	40	--	10	10
Boiler Make up	--	40	40		32	32		8	8
R&D, Pilot Plant	--	3	3	--	0	0	--	3	3

	DM Water / Back wash / Softener	--	7	7		0	0		7	7
	Gardening	--	33	33	--	33	33	--	0	0
	Total	--	**179**	**179**		**78.5**	**78.5**		**100.5**	**100.5**

23	Quantity of sewage generation (in CMD)	2.5 CMD
24	Details of Sewage Treatment and Disposal of treated sewage:	Sewage will be treated in proposed STP having capacity 3 CMD. The STP consist of Bar Screen, Oil & Grease Tank, Equalization Tank, Aeration Tank (MBBR), Secondary Settling Tank, Filter Feed Tank, PSF, ACF & Treated Water Tank. The Treated sewage will be recycled for flushing purpose.
25	**Detail of Effluent Generation (unit CMD)**	

Particular	Existing	Proposed	Total
a) Qty. of Effluent generation: (CMD)	0	98	98
b) Qty. of high TDS/COD effluent: (CMD)	0	65	65
c) Qty. of low TDS / COD effluent: (CMD)	0	33	33

26	Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/No)	No. The industrial effluent generated from proposed operations would be 98 CMD out of which 50 CMD treated effluent will be discharged to CETP and 35 CMD RO Permeate will be recycled in Cooling Make up.
27	Brief Description of Effluent Treatment scheme	Effluent generated from proposed manufacturing & utility operations will be segregated into two streams – Stream I (High TDS and High COD Effluent) and Stream II (Low TDS and Low COD Effluent). The Stream-I effluent (65 CMD) would be treated in proposed ETP comprising of - Screen chamber, OG Removal Tank, Equalization Tank, Flash Mixer, Flocculator, Tube Settler, Holding Tank, Stripper column followed by Multi Effect Evaporator (MEE) and Agitated Thin Film Dryer (ATFD). The condensate from MEE to the tune of 60 M^3 / Day would be forwarded to **Stream II** for treatment. Further salts from MEE would be forwarded to CHWTSDF. The **Stream II** effluents generated would be to the tune of 33 CMD and MEE condensate from **Stream I** of 60 M^3 / Day. **Stream II** effluent shall be contributed by DM plant, boiler blow down, Lab, floor washing and cooling blow down, R& D and Pilot Plant. The same will be treated in

		Primary, Secondary & Tertiary treatment units consisting of Screen Chamber, OG Tank, Equalization Tank, Flash Mixer, Flocculator, PST, MBBR Tank, STS, Holding tank, Sand and Carbon Filters. The **50 CMD** treated effluent from ETP, by achieving prescribed standards will be discharged to Common Effluent Treatment Plant (CETP). **35 CMD** treated effluent after RO unit, recycled for Cooling Make up
28	Qty of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details)	Quantity of treated effluent to be sent to CETP: 50 CMD Name of CETP: Lote Parshuram Membership Details: Lote Parsuram Environment Protection CO-OP. SOCIETY LTD. Allowed CETP Discharge Permission: 56 CMD

29 Please mention parameters of treated effluent to be achieved as per EP Rule, 1986 and or stipulated by the SPCB

Parameter	Stream-I		Stream-II	
	Inlet Concentration (Mg/L)	Outlet Concentration (Mg/L)	Inlet Concentration (Mg/L)	Outlet Concentration (Mg/L)
PH	8-9	7-8	5-9	6-7
TDS	45000-50,000	< 2100	1,800-2,000	< 200
COD	25,000-30,000	< 150	1,500-2,000	< 150
BOD	9,000-12,000	< 80	800-1,000	< 80
SS	--	--	--	--

30	Brief Note on proposed Rainwater harvesting scheme along with budget allocation:	➢ Runoff from Rooftop & Surface to be harvested & stored in Underground RCC Tanks. ➢ Rooftop Yield is 1,806 M^3 & Surface Runoff Yield is 13,781 M^3 forming total Runoff Yield of 15,587 M^3 ➢ Two tanks will be provided with capacity of 1980 M^3 & 900 M^3 ➢ Utilization for Green Belt, Fire Hydrant, Washing & Flushing ➢ Excess RWH Qty. diverted to MIDC Drain through Storage Tank out lets on Site **Budget allocated:** 15 Lakh

31 **Solid Waste management**

Sr. No.	Type of waste	Qty (MT/M)	Source of Generation	Disposal methods	Pl. mention plan to reduce solid waste generation if any
1	Boiler Ash	108 (Briquettes) /180 (Coal)	Boiler Area	To Brick Manufacturer	--
2	Plastic, Glass, Wooden,	10	Material Storage Area	Sale to authorized party	--

	Metal Scrap.				
3	Empty Containers / Carboys	5	Material Storage Area		--
4	Battery Waste	0.08	Administration Area		--
5	Packaging Material	2.5	Material Storage Area		
4	E-Waste	0.1	Administration Area		--

32 **Hazardous Waste Generation & Disposal (As per HW Rule 2016)**

Sr. No.	Category	Particulars	Source of Generation (please include Name of Product)	Existing Qty of generation (MT/M)	Proposed Qty & generation (MT/M)	Total Qty & generation (MT/M)	Method & Disposal as per HW Rules 2016
1	5.1	Used / Spent Oil	Compressors/pumps	--	0.5	0.50	CHWTSDF
2	28.6	Spent Solvent	In process-Distillation Plant	--	20	20	CHWTSDF
3	33.1	Discarded containers / barrels / liners contaminated with hazardous chemicals / wastes	Ware House-Raw Material Storage	--	100	100	CHWTSDF
4	35.3	Chemical Sludge from WWT – MEE salts and sludge from settling tanks	ETP Area	--	300	300	CHWTSDF
5	28.1	Process residue	Manufacturing Process	--	50	50	CHWTSDF

33 Fuel Consumption

Sr. No.	Type of Fuel	Consumption Qty (TPD)	Used for (Boiler/	Ash (%)	SO_2 (%)	Air pollution

						DG/Set etc)						control/ equipment provide (Yes/No)
			Existing	Proposed	Total		Existing	Proposed	Total	Existing	Proposed	Total	
1	Briquettes	--	120 TPD	120 TPD	For Proposed 10 TPH Boiler	--	1.5 %	1.5 %	--	0.01 %	0.01%	MDC follow Bag Filter	
2	Imported Coal	--	60 TPD	60 TPD		--	10 %	10 %	--	0.5	0.5		
3	HSD	--	80 Lit/ hr	80 Lit/ hr	For Proposed 500 KVA DG Set	--	--	--	1%	1%	1%	--	

34 Brief Note on Air Pollution Control equipment's: --
MDC and Bag filter will be used as an APC equipment to 10 TPH boiler

35 **Stack Details (Also include process vent details)**

Sr. No.	Section / Unit	Source pollutions	Stack No.	Height form ground	Internal Diameter	Temperature of exhaust gas
1	Boiler Section	Boiler (1 No.)	S-1	40 M	2 M	--
2	DG House	DG Set (1 No.)	S-2	5 M (ARL)	0.5	

➢ **Details of Scrubber**

No	Location	Dia. (M)	Ht. (m)	Process Emission	Scrubbing Media	Disposal/ Recycle/ Reuse
1	Ganolid Distillation Plant	0.1	6	Amines	Acid Solution	Scrubbed solution forwarded to ETP
2	Ganolid/ MPP Plant	0.1	6	CO2 / Organic Vapours	Caustic Solution	
3	DMS / HCl / Acetic acid storage shed	0.1	6	Acids	Caustic Solution	
4	FG & RM Storage shed	0.1	6	Acids	Caustic Solution	

36 **Energy**

a) Source of power Supply: Maharashtra State Electricity Distribution Company Limited

b) Maximum Demand (KVA): 1000 KVA

c) Whether DG sets will be provided (Yes / No): **Yes**

if yes :

Sr. No.	No. of DG Sets		Capacity
	Existing	Proposed	
1	--	1	500 KVA

d) Please Mention if high tension line is passing through the plot: No

If yes, pl. give details of safety measures adopted:

37 **Details of use of renewable energy with budget allocation:**

i. Total Energy Demand : 1000 KVA

ii. Proposed renewable energy source capacity: 5 KW in Solar Photovoltaic Power Generation Plant

iii. Proposed Budget (in Rs. Lakhs): 10 Lakhs

iv. Timeline for implementation: Within 2 years after accordance of EC

38 **Details of public hearing (if applicable): Not Applicable since Project located in Notified MIDC Area.**

i. Place of public hearing :NA

ii. Date of Public hearing :NA

Please fill following details

Sr. No.	Issue raised during public hearing	Applicant plan for its compliance/ implementation	Budget allocation for implementation	Specific time line of compliance
	NA			

39 EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)

Construction Phase:

Sr. No.	Attribute	Specific measure	Budget in (Rs. Lakh)	Remark
1	Air	Water tank, pump- motor, piping & sprinkling arrangement for fugitive dust control	3.50	—
2	Water	Safe Drinking water from existing unit	2.0	—
3	Noise	Barricading of the boundary with MS sheet cladding on MS frame. Rs. 600/-	4.5	—
4	Soil	Appropriate management of fuels, lubricants &	2	—

		constructions		
5	Solid waste	Dust bins at strategic points	0.25	—
6	Hazardous waste	Empty containers of primers, paints, construction chemicals- To be stored at Hazardous Waste Storage	3	—
7	Fuel & Energy	To be taken from local venders	1.5	—
8	Safety & health	Provision of PPEs, display of safety instruction, signs & awareness boards. First aid kit & other facilities	1	—

Operation Phase

Sr. No.	Attributes	Specific measures	Budget in Rs. Lakh	Time line for 1/5 implement	Responsibility	Remarks
1	Air	Installation of MDC with Bag Filters & 40 M Stacks, Installations of Scrubbers	110	After Procurement of EC	Emvironmental Management Cell	
2	Water	Installation of ETP (Separate Stream- I & II); MEE & OCMS to ETP, Installation of STP	125			
3	Noise	Provision of Acoustic enclosures to DG set, Boiler room, Blowers & high noise generating machinery, Barriers.	25			
4	Environmental Monitoring & Management	Environmental Monitoring by MOEFCC approved lab & Online Display Board System at main gate,	15			

			Hazardous waste disposal and management				
	5	Occupational Health and Safety	Fire Fighting System, Fire Extinguishers, Personal Protective Equipment's, OHC	50			
	6	Renewable Energy Implementation	Solar Photovoltaic Electricity Generation System	10			
	7	Green Belt Development	Avenue, Mass & Shelter belt Plantation	35			
	8	Rain Water Harvesting		15			
40	Other Relevant Information: (Pl. provide brief note on proposed project)				--		
41	Details of skill development program within Organization				Training to workers on firefighting, Safety, Mock Drills, Up-gradation of operating and maintenance skills, Technical Up-gradation in the field of operation or maintenance etc. will be given by AOPL.		
42	Details of environmental Monitoring Cell (Pl. provide organogram with educated Qualification and experience)				EMC Consist of 5 Nos. of persons including M.Tech., M.Sc. (Env.Sc.), B.Sc. (Chem.), PGDISHE. MD, EHS Officers, Lab Analyst & ETP Operators		
43	Details of court cases if pending in any Hon'ble court				No any Court case is pending against the project.		

3. The proposal has been considered by SEIAA in its 253rd (Day-2) 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:

A) SEAC Conditions

1. PP to submit an affidavit indicating they have not violated nay requirement of EIA Notification, 2006 as amended from time to time.

2. PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, access to all production and storage areas including area of Hydrogenation, 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
3. PP to get their 35 KLD ZLD ETP vetted by the reputed institution like IIT/NIT.
4. PP to submit details of carbon di oxide gas management plan so as to ensure that no carbon di oxide gas is emitted to the atmosphere.
5. PP to re-examine the ecological data submitted in the EIA report with respect to the observed species and actual species in existence as per records. PP shall give reasons for any difference in the observed numbers of species during ecological survey.
6. PP to submit detailed VOC control plan w.r.t emissions from the process/storage areas; PP to include VOC parameter in their scheduled air sample monitoring plan.
7. PP to provide adequate parking provision considering daily in and out of the vehicles visiting industry to carry raw material and finished products. PP to mark location of parking in layout.
8. It was observed from the model has used a gross TPM values to predict PM10/PM2.5, which is not the proper way. A proper assessment based on particle size analysis was not done to interpret the data of TPM in ambient air and results of parameter PM10 & PM2.5. The model output needs revision and resubmission.
9. PP to carry out soil sample analysis to be collected on the project site for all parameters including all heavy metals so as to have a base line data of soil samples to correlate with the regular soil monitoring.
10. 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.
11. PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
12. PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB.
13. PP 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.
14. 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.
15. PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
16. PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with District Administration.
17. PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

B) SEIAA Conditions:

1. PP submitted MIDC plan dated 26.08.2021. As per the said plan total plot area is 20000.00 m2. Green Belt area of 6608.75 m2 is provided by PP i.e. 33% of total plot area.
2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, 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.

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 & 1sr 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.

5/12/2022

Pravin Darade
(Member Secretary, SEIAA)

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, Ratnagiri
6. Regional Officer, Maharashtra Pollution Control Board, Kolhapur

Signature Not Verified
Digitally signed by Shri Pravin C. Darade , I.A.S.
Member Secretary
Date: 12/7/2022 12:09:39 PM