Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (day-2) **Meeting Date** September 8, 2021

In view of sudden increase in present pandemic situation of COVID-19 , Maharashtra SEIAA directed SEAC-1 to appraise the proposals by using information technology facilities. Hence, SEAC-1 initiated to appraise the proposals received by the SEIAA through Videoconferencing technology on Cisco Webex platform.

Following members of SEAC-I were present for videoconference meeting.

Dr. Vijay Kulkarni	Chairman
Dr. Chandrashekhar Marathe	Expert Member
Shri. Jeevan Patgaonkar	Expert Member
MS. Kavita Takale	Expert Member
Shri. Abhay Pimparkar	Secretary

Leave of Absence was granted to Shri. Kundan Deshmukh, Expert Member.

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (day-2) **Meeting Date** September 8, 2021

Subject: Environment Clearance for Environment Clearance for Proposed expansion & addition of Aroma Chemical manufacturing facility at Plot No. A- 3, MIDC Mahad, Mahad, Dist. Raigad by Privi Speciality Chemicals Ltd (Unit III)

Is a Violation Case: No

1.Name of Project	Environmental Clearance for Proposed expansion & addition of Aroma Chemical manufacturing facility at Plot No. A- 3, MIDC Mahad, Mahad, Dist. Raigad by Privi Speciality Chemicals Ltd (Unit III)
2.Type of institution	Private
3.Name of Project Proponent	Privi Speciality Chemicals Ltd (Unit III) (formerly known as Privi Organics India Limited)
4.Name of Consultant	Aditya Environmental Services Pvt Ltd
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing facility
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. SEAC-2013/CR-256/TC-2 dated 08.10.2015
8.Location of the project	Plot No A– 3, MIDC Mahad , Dist. Raigad
9.Taluka	Mahad
10.Village	Kamble Tarf
Correspondence Name:	Mr. S. B. Pathare
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Whether in Corporation / Municipal / other area	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	MIDC Mahad
	IOD/IOA/Concession/Plan Approval Number: MIDC plot plan approval- IFMS no. SPA/MHD/C-72074/of 2019 dated 17/08/2019
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Expansion is within existing manufacturing facility
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plan approval- IFMS no. SPA/MHD/C-72074/of 2019 dated 17/08/2019
15.Total Plot Area (sq. m.)	12,000
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 17-08-2019
19.Total ground coverage (m2)	5738.94
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	370000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Admin building	G+3	15
2	TOL Building	G+8	31
3	PCC Building	G+1	10
4	Utility Building	G	15
5	Warehouse	G	15

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Min 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m
29.Existing structure (s) if any	Production plant, Utilities, storage tanks, material sheds, ETP, Admin bldg., etc.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Products	Existing (TPA)	Proposed (TPA)	Total (TPA)
2	Terpineol & Pine oil	7860	1740	9600
3	A-Terpinyl acetate & Isomers	720	0	720
4	Dipentenes Total (Serial No 4 to 10)	--	--	--
5	Terpinolene	336	924	1260
6	1,4 Cineol,	124.8	343.2	468
7	1,8 Cineol (Eucalyptol)	76.8	211.2	288
8	Gamma Terpinene	48	132	180
9	Limonene	230.4	633.6	864
10	Terpene mixture 505	96	264	360

11	Mix of alcohol (Borneol L.P)	19.2	52.8	72
12	p-Cymene	508.8	319.2	828
13	Camphene	2400	4800	7200
14	Isobornyl acetate	900	0	900
15	Alpha & Gamma-Terpineol	0	1200	1200
16	Dipentenes 5059	0	6384	6384
17	Pine oil technical (Pine Oil 10)	0	936	936
18	A-Terpinyl acetate Technical	0	96	96
19	p-Cymene Technical	0	552	552
20	Camphene Technical	0	2028	2028
21	IBA Technical	0	468	468
22	Terpenes 5098	0	2676	2676
23	Phosphoric acid 30-35 OR	0	3636	3636
24	Sodium Phosphate	0	3084	3084
25	Acetic acid 25 OR	0	336	336
26	Sodium acetate	0	756	756
27	Acetic acid 85	0	324	324
28	Co-Generation (Electricity generation)	0	3 MW	3 MW

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	1061
	Recycled water - Flushing (CMD):	65
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1126
	Fire fighting - Underground water tank(CMD):	450 KL
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	1041
	Recycled water - Flushing (CMD):	65
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1106
	Fire fighting - Underground water tank(CMD):	450 KL
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	40	0	40	20	0	20	20	0	20
Industrial Process	154	-29	125	44	-36	8	110	7	117
Cooling tower & thermopack	416	535	951	402	526	928	14	9	23
Gardening	10	0	10	10	0	10	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1 to 7 m pre-monsoon (CGWA report)
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	Within the plot
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	Not applicable

35.Storm water drainage	**Natural water drainage pattern:**	Towards west of plot
	Quantity of storm water:	120 lit/second
	Size of SWD:	169.6 m2
Sewage and Waste water	**Sewage generation in KLD:**	20 cmd
	STP technology:	30 cmd - Skid mounted with automation
	Capacity of STP (CMD):	30 cmd
	Location & area of the STP:	Within plant
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	2.5 lacs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Minor quantity of construction waste
	Disposal of the construction waste debris:	Construction waste will be disposed off as per norms.
Waste generation in the operation Phase:	**Dry waste:**	Insulation Waste: 6 TPA, MS scrap: 60 TPA, Other waste (wood, Paper, glass, decontaminated plastic etc): 30TPA, Boiler ash: 288 MT/M, Canteen waste: 450 Kg/M, Bio-sludge: 180 TPA.
	Wet waste:	--
	Hazardous waste:	Spent oil, Waste contaminated with oil (cotton/gaskets/ insulation materials), Discarded containers/barrels/ liners/IBC/Carboys, Chemical sludge form waste water treatment, Sludge from concentration technique (MEE), Spent Solvent, Distillation Residue, Corrosive waste, Spent Carbon/Charcoal, Recovered Catalyst/Spent Catalyst, Process Waste, Resin, Filter pads/Bags
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	Approx 200 Kg/Month
	Others if any:	E waste: 0.6 TPA, Lead acid batteries: 60 Nos./A
Mode of Disposal of waste:	**Dry waste:**	Non Hazardous waste will be disposed off as per norms.
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed off as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Area requirement:	**Location(s):**	Within plot
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	O & M cost:	--

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	4-6	7-7.5	6.5-9
2	COD	mg/L	3500-5000	< 250	250
3	BOD	mg/L	900-1800	< 100	100
4	NH4+ - N	mg/L	5-10	< 50	50
5	Oil & Grease	mg/L	15-20	< 10	10
6	TDS	mg/L	3000-4000	< 2100	2100

Amount of effluent generation (CMD):	262 cmd (Total effluent 262 cmd, out of which 140 cmd From Unit III & 122.24 cmd from Unit I)
Capacity of the ETP:	300 cmd ETP, 300 cmd RO, 72 cmd MEE, ATFD 15 cmd
Amount of treated effluent recycled :	65 cmd
Amount of water send to the CETP:	217.24 cmd (Combined discharge of Unit I & Unit III)
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Oil & Grease trap > Equalization tank > Primary clarifier > Aeration tank >Secondary clarifier > Sand filter > Carbon filter > RO plant > RO reject to MEE>ATFD
Disposal of the ETP sludge	To CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	TPA	4.99	7.01	12	Sale to Authorized reprocessor
2	Waste contaminated with oil (cotton/gaskets/ insulation materials)	5.2	TPA	0.12	2.28	2.5	CHWTSDF
3	Discarded containers/barrels/ liners/IBC/Carboys	33.1	Nos./A	2400	1200	3600	Sale to authorized party after decontamination
4	Chemical sludge form waste water treatment	35.3	TPA	180	180	360	CHWTSDF
5	Sludge from concentration technique (MEE)	35.3	TPA	187.2	436.8	624	Sale to Authorized party/CHWTSDF
6	Distillation Residue	20.3	TPA	126	0	126	Sale to Authorized party/CHWTSDF/Burn as fuel in Oil fired Boiler
7	Skimmed oil	35.4	TPA	0	144	144	Sale to Authorized party/CHWTSDF

8	Recovered Catalyst/ Spent Catalyst	1.6	TPA	89.76	258.24	348	Sale to Authorised party/CHWTSDF
9	Process Waste	20.4	TPA	0	180	180	CHWTSDF
10	Filter pads/ Bags	36.2	TPA	0	120	120	CHWTSDF
11	E waste	--	TPA	0.3	0.7	1	Sale to Authorised party/CHWTSDF
12	Lead acid batteries	--	nos/A	60	0	60	Sale to Authorised party/CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	8 TPH Boiler	Coal: 20 TPD	1	42	0.9	180
2	16 TPH Boiler	Coal: 72 TPD	2	44.5	2.5	180
3	30 TPH Boiler (proposed)	Coal: 120 TPD	3	46	2	180
4	14 TPH Boiler (proposed)	FO/ Terpene Biofuel & Column Bottom mass: 32 MT/Day	4	44.5	1.2	160
5	750 KVA DG set	HSD: 250 Lit/Hr	5	11	0.15	185
6	380 KVA DG set	HSD: 70 Lit/Hr	6	11	0.15	185
7	1500 KVA DG set (Proposed)	HSD: 301 Lit/Hr	7	11	0.15	185

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	72 TPD	120 TPD	192 TPD
2	Furnace oil OR	0	32 TPD	32 TPD
3	Terpene Biofuel and	0	32 TPD	32 TPD
4	Column Bottom mass	0	4.4 TPD	4.4 TPD
5	HSD	320 Lit/Hr	301 Lit/Hr	621 Lit/Hr
41.Source of Fuel		from Nearby source		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	341.37 sq. m (within plot) & 3619 sq. m (MIDC plot Space -8)
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	2000 Nos (approx)
	List of proposed native trees :	Not applicable
	Timeline for completion of plantation :	Not applicable

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Jambul	Malabar plum	177	Fast Growing, Evergreen, Round

2	Kokam	Garcinia indica	200	Fast Growing, Evergreen, Oblong/ Round
3	Kaju	Anacardium occidentale	100	Fast Growing, Evergreen, Oblong
4	Mango	Mangifera indica	150	Fast Growing, Evergreen, Conical/ Rounded
5	Avala	Phyllanthus emblica	80	Fast Growing, Evergreen, Spreading
6	Fanas	Artocarpus heterophyllus	100	Fast Growing, Evergreen, Spreading
7	Chinch	Tamarindus indica	150	Fast Growing, Evergreen, Spreading
8	Kadunimb	Azadirachta indica	80	Fast Growing, Evergreen, Round/ oblong
9	Shisav	Dalbergia sissoo	50	Fast Growing, Evergreen, Round/ oblong
10	Tamhan	Lagerstroemia speciosa	60	Fast Growing, Evergreen, Round/ oblong
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	--	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	750 KVA
	During Operation phase (Connected load):	48628 KVA
	During Operation phase (Demand load):	48628 KVA
	Transformer:	---
	DG set as Power back-up during operation phase:	Existing-750 KVA, 380 KVA,Proposed- 1500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	---

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar energy generation	81 KW
2	Co-generation	3 MW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Polution	Stack , ESP	Stack , ESP
Water Pollution	ETP,STP, RO , MEE	ATFD
Noise Pollution	Acoustics enclosure,silencer	----
Hazardous waste	Disposal to CHWTSDF, Sale to authorised party	----

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 324 Lakhs
	O & M cost:	Rs. 105 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Construction management	Site preparation, Material storage, C & D waste safe disposal, safe shelter for worker, Drinking water facility, PPE for worker, Sanitation facility	10

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution control	Form Utilities, DG Set	50	10
2	Environmental Monitoring	Regaular Monitoring	15	5
3	Water pollution control	ETP,RO,MEE, STP	165	50
4	Hazardous waste & Solid Waste Management	Storage & Disposal	3	15
5	Green Belt Development	Development & Maintenance green belt	5	2
6	Occuptional , Helath & Safety	PPE, Safety training	25	15
7	Solar energy	Solar panel installation	51	8

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
A-Pinene	---	1X150 KL, 1x30 KL	150 KL, 30 KL	150 KL, 30 KL	--	From Nearby source	By Road
Caustic lye	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Phosphoric acid	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Acetic anhydride	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Acetic acid	---	1X50 KL	50 KL	50 KL	---	From Nearby source	By Road
Terpenes	---	1X50 KL	50 KL	50 KL	---	From Nearby source	By Road
Dipentene/ Limonene	---	1X50 KL	50 KL	50 KL	---	From Nearby source	By Road
Pine Oil	---	2X100 KL, 3X30 KL	290 KL	290 KL	---	From Nearby source	By Road
A-Terpineol	---	2X50KL, 2X10 KL, 1X30 KL	150 KL	150 KL	---	From Nearby source	By Road
Camphene	---	1X100KL,1X20 KL	120 KL	120 KL	---	Nearby source	By Road
Dipentene	---	2X10 KL,1X20 KL	40 KL	40 KL	---	Nearby source	By Road
p-Cymene	---	1X30 KL	30 KL	30 KL	---	Nearby source	By Road
Isobornyl acetate (IBA)	---	1X30 KL	30 KL	30 KL	---	Nearby source	By Road
Camphene Crude	---	1X15 KL,1X100 KL	115 KL	115 KL	---	Nearby source	By Road
Terpineol Crude	---	1X5 KL,5X10 KL, 6X50KL,1X100	455 KL	455 KL	---	Nearby source	By Road
Recovered A-Pinene	---	1X10 KL, 1X30 KL	40 KL	40 KL	---	Nearby source	By Road
Camphene MRD	---	2X20KL,2X5KL	50 KL	50 KL	---	Nearby source	By Road
5% Caustic solution	---	1X5KL	5 KL	5 KL	---	Nearby source	By Road
Pine Oil Crude	---	1X30KL	30 KL	30 KL	---	Nearby source	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	1361
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5(f)-B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP submitted details of waste water management in the EIA report and also indicated water requirement at Sr. No 37 of the Consolidated Statement.

Drainage pattern of the project	During rainy season, PP to provide adequate storm water drains to prevent entry of the rain water in the mine pit.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP submitted details of solid waste management in the EIA report and also indicated water requirement at Sr. No 36 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and noise parameters are within the prescribed limits at project site.
Energy Management	PP submitted details of energy management in the EIA report and also indicated water requirement at Sr. No 47 of the Consolidated Statement.
Traffic circulation system and risk assessment	PP proposes to provid internal roads of six meters width for smooth circulation of traffic
Landscape Plan	PP proposes to provide 33% green belt
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP submitted details of EMP in the EIA report and also indicated water requirement at Sr. No 51 of the Consolidated Statement.
Any other issues related to environmental sustainability	NA

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

PP obtained earlier EC vide No. SEAC-2013/CR-242/TC-2 dated 08.10.2015.PP to submit copy of certified compliance report of the earlier EC received from the Regional Office of MOEF&CC as per OM dated 15.01.2018.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

1. PP to submit certificate of incorporation of the company. list of directors and memorandum of articles and memorandum of association.

2. PP to submit consent copies from the year of establishment to till date.

3. PP to submit lay out plan showing entry and exit gates ,internal roads with minimum width of six meters and turning radius of nine meters all around the manufacturing buildings and chemical storage areas to ease the movement of fire tender in case of an emergency, location of all pollution control equipment like boiler stack, DG stack, Effluent Treatment Plant, Sewage Treatment Plant, Scrubbers , parking areas, 33% green belt in the plant premises, solid and hazardous waste storage areas, rain water harvesting etc.

4. PP to submit lay out plan showing entry and exit gates ,internal roads with minimum width of six meters and turning radius of nine meters all around the manufacturing buildings and chemical storage areas to ease the movement of fire tender in case of an emergency, location of all pollution control equipment like boiler stack, DG stack, Effluent Treatment Plant, Sewage Treatment Plant, Scrubbers , parking areas, 33% green belt in the plant premises, solid and hazardous waste storage areas, rain water harvesting etc.

5. PP to conduct fire safety audit from competent Authority and submit report on fire load calculation for individual manufacturing buildings, chemical storage areas with remarks on the adequacy of existing fire prevention measures and proposed mitigation measures to prevent fires and unforeseen accidents.

6. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.

7. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

8. PP to submit design details of the ETP along with pollution load calculations.

9. PP to include reuse/ recycle/disposal mechanism of the byproducts generated during the manufacturing.

10. PP to submit copy of stability certificate of existing structures on site.

11. PP to submit details of the waste material management plan in the EIA report.

12. PP to submit process engineering design details like reactors and other process equipment design along with proposed process controls to ensure the safety of people and quality of the products.

13. PP to carry out HAZOP and Quantitative Risk Assessment study to assess the fire potential and its impact inside the premises as well as outside the premises with mitigation measures. PP to submit a Disaster Management Plan.

14. PP to submit chemical handling protocol for all the raw materials to be used on site.

15. PP to use solar energy for office building and street lights.

16. PP to provide lightening arrestors.

17. PP to submit CSR plan to be prepared in consultation with the District Authorities along with its implementation schedule. PP to maintain separate account for CSR funds.

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Aditya Environmental Services Pvt. Ltd.

ToR was granted to the PP in 149th meeting of SEAC- 1 held on 06.04.2018.

Now PP submitted EIA/EMP report for appraisal.

The capital EMP cost is Rs.324 lakhs and recurring EMP cost is Rs. 105 Lakhs.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

Specific Conditions by SEAC:

1) PP to spend part CER funds for the conservation and protection of crocodiles observed in the study area in consultation with the competent Authority of Forest Department
2) PP proposes to discharge 217 CMD of treated effluent to the CETP and 65 CMD will be recycled..
3) PP acquired additional area from the MIDC for the development of green belt. PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.
4) PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
5) PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (day-2) **Meeting Date** September 8, 2021

Subject: Environment Clearance for Environment Clearance for Proposed expansion of Synthetic Organic Chemical Manufacturing facility (Expansion & Addition of Aroma Chemicals) at Plot No. C-3, 4, 5, 6, 6/1, 6/2, 7, 8, 9, 10, 11, 13 & C-33, C-33/1, 33/2, X-8, 9, 10, 11, 12, C-54, C-55, MIDC Mahad, Dist Raigad, by Privi Speciality Chemicals Ltd (Unit II)

Is a Violation Case: No

1.Name of Project	Environment Clearance for Proposed expansion of Synthetic Organic Chemical Manufacturing facility (Expansion & Addition of Aroma Chemicals) at Plot No. C-3, 4, 5, 6, 6/1, 6/2, 7, 8, 9, 10, 11, 13 & C-33, C-33/1, 33/2, X-8, 9, 10, 11, 12, C-54, C-55, MIDC Mahad, Dist Raigad, Maharashtra by Privi Speciality Chemicals Ltd (Unit II)
2.Type of institution	Private
3.Name of Project Proponent	Privi Speciality Chemicals Ltd. (Unit II) (Formerly known as Privi Organics India Ltd)
4.Name of Consultant	Aditya Environmental Services Pvt Ltd
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion within existing manufacturing facility
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Existing Environmental Clearance letter number SEAC-2012/CR-43/TC-2 Dated 08.10.2015
8.Location of the project	Plot No. C-3, 4, 5, 6, 6/1, 6/2, 7, 8, 9, 10, 11, 13 & C-33, C-33/1, 33/2, X-8, 9, 10, 11, 12, C-54, C-55, MIDC Mahad
9.Taluka	Mahad
10.Village	Birwadi
Correspondence Name:	Mr. S. B. Pathare
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Whether in Corporation / Municipal / other area	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot plan approval IFMS No.SPA/MHD/D-61279/of'2019, dated 06.11.2019
	IOD/IOA/Concession/Plan Approval Number: MIDC plot plan approval IFMS No.SPA/MHD/D-61279/of'2019, dated 06.11.2019
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Expansion is within existing manufacturing facility.Existing facility is for manufacturing of aroma chemicals
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	71552
16.Deductions	--
17.Net Plot area	--
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** --
	b) Non FSI area (sq. m.): --
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 06-11-2019
19.Total ground coverage (m2)	8164.81

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0
21.Estimated cost of the project	2200000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	DHMOL Plant	G+5	21
2	CST	G+11	45
3	JBF Hall	G+1	12
4	New control room (H2 generaion & Reaction distillation)	G + 1	15

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	min 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m
29.Existing structure (s) if any	Production plant, Utilities, storage tanks, material sheds, ETP, Admin bldg, R & D, Pilot plant ,Incinerator,Thermocouple,etc.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Products quantity	Existing (TPA)	Proposed (TPA)	Total (TPA)
2	Isobornyl cyclohexanol (IBCH)	300	900	1200
3	L/D- Carvone	180	180	360
4	Carvacrol	300	900	1200
5	Orange oil folds	72	72	144
6	D-Limonene	180	1320	1500
7	Myrcene	4800	600	5400
8	Alpha-Campholenic aldehyde	300	156	456

9	Floreol	120	120	240
10	Dihydrocarvone	24	0	24
11	Carvomenthone	5	22	27
12	Menthone	30	329	359
13	Menthol	25	396	421
14	Nimberol	12	12	24
15	Dihydromyrcene	936	2064	3000
16	Sandal fleur	240	0	240
17	Indian sandal Core	0	240	240
18	Sandal Touch	24	0	24
19	Citral extra pure	360	0	360
20	Citronellal	400	320	720
21	Hydroxy Citronellal	20	340	360
22	Cyclocitral (Alpha & Beta mixture)	80	52	132
23	Cyclocitral -Alpha	20	4	24
24	Cyclocitral -Beta	20	4	24
25	Isocitronellene& Isomer	360	0	360
26	Citronellyl nitrile	600	600	1200
27	Damascone-Alpha	0	36	36
28	Damascone-Beta	0	12	12
29	Delta-Damascone,	0	12	12
30	Beta Isodamascoletc	0	72	72
31	Mixture of Terpenes and alcohols 5090	5076	0	5076
32	A-Pinene from CST	19339.92	64.08	19404
33	B-Pinene from CST	6058.32	1.68	6060
34	Limonene from CST	495.84	212.16	708
35	Mixed terpenes/Terpene biofuel from CST (Sr. no. 34, 35, 36)	--	--	--
36	DDTO	3000	600	3600
37	Carene 60,90,98 & others	3280	-964	2316
38	Terpene bio fuel	3008	1492	4500
39	DMS	84	0	84
40	DMDS	12	0	12
41	MSM	12	0	12
42	Mixed Sulphurs compounds	12	0	12
43	A-Pinene from GTO	6444	0	6444
44	B-Pinene from GTO	4008	0	4008
45	Methyl Pentenone	180	0	180
46	Amberfleur	1620	600	2220
47	Ammbergamma	100	20	120

48	Cedarketol	80	-20	60
49	Isoborneol	0	600	600
50	Camphor	0	3000	3000
51	MI for soap	12	12	24
52	Violetone Coeur	24	0	24
53	Timber Touch	40	56	96
54	Timber forte	20	28	48
55	Esters- Product (Sr. no. 53 to 79)	--	--	--
56	Para Tertiary Butyl Cyclo Hexyl Acetate/PTBCH	200	400	600
57	Ortho Tertiary Butyl Cyclohexyl acetate/OTBCH	200	400	600
58	Styrallyl acetate	80	400	480
59	Terpinyl acetate	360	420	780
60	Citronellyl acetate	84	36	120
61	Geranyl acetate	60	0	60
62	Neryl acetate	36	0	36
63	Dimethyl Octanol acetate	24	12	36
64	Isobornyl acetate	424	776	1200
65	Longifolene acetate	12	0	12
66	Mixture of esters 4090	500	100	600
67	2-Methyl Cyclohexyl acetate	0	12	12
68	Ethyl Geranate	0	12	12
69	Isobutyl Geranate	0	12	12
70	Geraniol Tiglates	0	6	6
71	Nerol Tiglates	0	6	6
72	Geraniol angilates	0	6	6
73	Nerolangilates	0	6	6
74	PEME	0	120	120
75	PADMA	0	60	60
76	Geranyl Propionate	0	24	24
77	Citronellyl Propionate	0	12	12
78	Neryl Propionate	0	12	12
79	Phenyl ethyl acetate	0	240	240
80	Linalyl acetate	0	12	12
81	Linalyl Propionate	0	12	12
82	Linalyl Isobutyrate	0	12	12
83	Alcohol- Product (Sr. no. 80 to 88)	--	--	--
84	Citronellol (COL)	460	140	600
85	Geraniol (GOL)	250	-9	241
86	Nerol (NOL)	254	-74	180

87	Terpineol	320	220	540
88	Dihydromyrcenol (DHMOL)	6000	1800	7800
89	Linalool	84	36	120
90	Tetrahydromyrcenol (THMOL)	200	40	240
91	Dimethyl Octanol (Tetrahydrogeraniol)	160	-40	120
92	Terpinen-4-ol (4-Terpineol)	120	1380	1500
93	Rose Oxide	36	144	180
94	Ionone- Product (Sr. no. 90 to 97)	--	--	--
95	Gamma Methyl Ionone (GMI)	280	320	600
96	Normal Methyl Ionone (NMI)	300	60	360
97	Alpha-Ionone (AI) & Ionone 100%	160	200	360
98	Beta Ionone (BI)	60	180	240
99	Beta Ionone Technical	40	200	240
100	Beta Ionone PG	50	190	240
101	Gammanolene	90	-30	60
102	Mixture of Ionones 1090	100	200	300
103	GeaniolFormate	12	0	12
104	Citronellol formate	12	0	12
105	Camphene	12	0	12
106	ISO Longifoline Ketone	12	0	12
107	Prionyl/Privi Moss	120	0	120
108	Rosaxanol/Rosepyran	60	60	120
109	Muganol	12	0	12
110	Super Sandal Core	24	0	24
111	Hydrogen	120	180	300
112	Natemyl Acetate	0	12	12
113	Isojasmone Privi	0	24	24
114	Luzernyl acetate	0	48	48
115	Luzernyl butyrate	0	24	24
116	Luzernyl Isobutyrate	0	24	24
117	Luzernyl Benzoate	0	24	24
118	Citronellidene ketone	0	12	12
119	Navinitrile	0	24	24
120	Berninyl acetate	0	12	12
121	Berninanitrile	0	24	24
122	Valleynate	0	12	12
123	Propicene	0	12	12

124	Maltol Isobutyrate	0	12	12
125	Misirone	0	12	12
126	Ambarate woody	0	12	12
127	Gardeniarate	0	12	12
128	Nerolidol	0	12	12
129	Woodypep	0	24	24
130	Rosacone Alpha & Beta	0	12	12
131	Woodamarate	0	12	12
132	Spicyralein	0	12	12
133	Ethyl Frutynoate	0	12	12
134	LuzernylHexenoate	0	12	12
135	Synfonylal	0	12	12
136	Floroberry	0	12	12
137	Tellal	0	12	12
138	Dihydrotellal	0	12	12
139	Nonadienol	0	12	12
140	Lactonone	0	12	12
141	Technical Ester Mixed	0	12	12
142	Technical odourify compound	0	84	84
143	Isopulygol acetate	0	120	120
144	saturated alcohol	0	120	120
145	Dipentenes Total (Serial No 140 to 147)	--	--	--
146	Terpinolene 90	0	1452	1452
147	1,4-Cineol	0	540	540
148	1,8-Cineol (Eucalyptol)	0	336	336
149	Gamma Terpinene	0	204	204
150	Limonene	0	996	996
151	Terpine Mixture	0	840	840
152	p-Cymene	0	120	120
153	Mixture of alcohol	0	84	84
154	Ammonium sulphate 35 % OR	0	3600	3600
155	Ammonium sulphate	0	2280	2280
156	Chromium sulphate solution OR	0	2220	2220
157	Chromium trihydroxide	0	540	540
158	Acetic acid 30	0	1080	1080
159	Phosphoric acid 30	0	1620	1620
160	Sulphuric acid 25	0	18000	18000
161	Calcium Sulphate OR	0	11400	11400
162	Ferrous Sulphate	0	6000	6000
163	Magnesium sulphate	0	6264	6264

164	Dipentene	0	2148	2148
165	Potassium acetate 40 OR	0	432	432
166	Potassium acetate	0	156	156
167	Sodium Phosphate 10 OR	0	300	300
168	Sodium Phosphate	0	156	156
169	Acetic acid 80	0	2760	2760
170	Sodium acetate 30 OR	0	7320	7320
171	Sodium acetate	0	2304	2304
172	DMF 80	0	324	324
173	IBCH T&B/IBCH Technical	0	360	360
174	Carvone T&B/ Carvacrol Technical	0	1284	1284
175	Menthone/ Menthol Technical	0	948	948
176	HCAL T&B	0	204	204
177	Florol T&B 3029	0	204	204
178	Heavy Fractions / Terpene Biofuel	0	1272	1272
179	Esters T&B 590	0	480	480
180	DHM Terpenes & HB Terpenes	0	2988	2988
181	DHMOL Terpenes & HB alcohol	0	2880	2880
182	Terpenes & HB alcohol	0	480	480
183	Ionones T&B	0	564	564
184	SF T& B	0	144	144
185	Pine HB	0	612	612
186	Ambery T&B 910	0	276	276
187	CitroT&B	0	216	216
188	Calcogol T & B 509	0	120	120
189	Terpenes 950 (Pine 10 technical)	0	60	60
190	DHP	0	84	84
191	Sodium Sulphate	0	2280	2280
192	Potassium sulphate	0	24	24
193	Camphor Oil	0	84	84
194	Camphor Pitch	0	264	264
195	Electricity Generation	4 MW	0	4 MW
196	Recovery of Concentrated Sulphuric acid	48 TPD	12 TPD	60 TPD

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	1975
	Recycled water - Flushing (CMD):	302
	Recycled water - Gardening (CMD):	35
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2277
	Fire fighting - Underground water tank(CMD):	2 nos. of 350
	Fire fighting - Overhead water tank(CMD):	1000 & 850
	Excess treated water	NA
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	1940
	Recycled water - Flushing (CMD):	302
	Recycled water - Gardening (CMD):	35
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2242
	Fire fighting - Underground water tank(CMD):	2 nos. of 350
	Fire fighting - Overhead water tank(CMD):	1000 & 850
	Excess treated water	NA
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	49	0	49	14	0	14	35	0	35
Industrial Process	185	53	238	102	-92	10	83	145	228
Cooling tower & thermopack	686	1269	1955	665	1153	1818	21	116	137
Gardening	35	0	35	35	0	35	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	2 nos of underground Tanks
	Location of the RWH tank(s):	Within the plot
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	2 nos. of 350 KL & 1000 KL
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	0.3 x 0.4 m, 0.45 x 0.75 m
Sewage and Waste water	**Sewage generation in KLD:**	35 cmd
	STP technology:	40 cmd - ASP
	Capacity of STP (CMD):	40 cmd
	Location & area of the STP:	within plot
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	Rs. 5 Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Minor quantity of construction waste
	Disposal of the construction waste debris:	Construction waste will be disposed of as per norms.
Waste generation in the operation Phase:	**Dry waste:**	Insulation Waste: 6 TPA, MS scrap: 204 TPA, Other waste (wood, Paper , glass, decontaminated plastic etc): 240 TPA, Boiler ash:5760 TPA , Thermopack Ash-66 TPA, Canteen waste: 19.2 TPA, Biosludge-480 TPA
	Wet waste:	--
	Hazardous waste:	Spent oil, Waste contaminated with oil (cotton/gaskets/ insulation materials), Discarded containers/barrels/ liners/IBC/Carboys, Chemical sludge form wastewater treatment, Sludge from concentration technique (MEE), Spent Solvent, Distillation Residue, Spent Carbon/Charcoal, Recovered Catalyst/Spent Catalyst, Process Waste, Resin, Filter pads/Bags
	Biomedical waste (If applicable):	0.06 Kg/M
	STP Sludge (Dry sludge):	250 kg/day
	Others if any:	E waste: 1500 Kg/A, Lead acid batteries: 500 NOS/A

Mode of Disposal of waste:	**Dry waste:**	Non Hazardous waste will be disposed off as per norms.
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed off as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	Authorized BMW disposal facility
	STP Sludge (Dry sludge):	--
	Others if any:	E-Waste will be disposed off to authorized recycler
Area requirement:	**Location(s):**	Within plot
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 Lakhs
	O & M cost:	Rs. 50 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	---	4-6	5.5-9	5.5-9
2	COD	mg/L	3500-5000	250	250
3	BOD	mg/L	900-1800	100	100
4	NH4+ - N	mg/L	5-10	50	50
5	Oil & Grease	mg/L	15-20	10	10
6	TDS	mg/L	3000-4000	2100	2100

Amount of effluent generation (CMD):	400
Capacity of the ETP:	ETP followed by RO (500 cmd capacity)
Amount of treated effluent recycled :	302 cmd
Amount of water send to the CETP:	98 cmd
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Oil & Grease trap > Equalization tank > Primary clarifier > Aeration tank >Secondary clarifier > Tertiary clarifier> Carbon filter > UF < RO plant > RO reject to MEE > ATFD (proposed)
Disposal of the ETP sludge	To CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	TPA	6	6	12	Sale to authorized Preprocessor
2	Waste contaminated with oil (cotton/gaskets/ insulation materials)	5.2	Kg/A	1800	2400	4200	CHWTSDF
3	Drums/ Barrels	33.1	Nos/A	2412	1188	3600	Sale to authorized party
4	IBC's	33.1	Nos/A	300	1500	1800	Sale to authorized party

5	Carboys	33.1	Nos/A	600	1200	1800	Sale to authorized party
6	Chemical sludge form waste water treatment	35.3	TPA	480	24	504	CHWTSDF
7	ETP Oil/Skimmed Oil	35.4	TPA	0	240	240	CHWTSDF or Sale to authorized party/Burn as fuel in Boiler
8	Sludge from concentration technique (MEE)	36.1	TPA	568.8	511.2	1080	CHWTSDF or Sale to authorized party
9	Discarded Asbestos	15.2	Kg/A	99.6	8.4	108	Sale to authorized party
10	Spent Catalyst/Recovered Catalyst	1.6	TPA	6	150	156	CHWTSDF or Sale to authorized party
11	Carbon/Charcoal	36.2	TPA	26.4	21.6	48	CHWTSDF or Sale to authorized party
12	Silica / Molecular Sieves	1.6	TPA	26.4	-2.4	24	CHWTSDF or Sale to authorized party
13	Process Waste	20.4	TPA	0	420	420	CHWTSDF or Sale to authorized party
14	Resin	--	TPA	1.2	58.8	60	CHWTSDF or Sale to authorized party
15	Ash from Incinerator	37.2	TPA	0	360	360	CHWTSDF or Sale to authorized party
16	Distillation Residue/White Oil Residue	20.3	TPA	0	1212	1212	Use as Fuel or Sale to authorized party or CHWTSDF
17	Filter pads/Bags/Liners	36.2	TPA	0	2400	2400	CHWTSDF
18	E waste	--	Kg/A	684	0	684	Sale to authorized party
19	Lead acid batteries	--	Nos/A	360	0	360	Sale to authorized party
20	Mix of salts	--	TPA	0	1668	1668	CHWTSDF or Sale to authorized party
21	Zinc bromide solution	--	TPA	0	72	72	CHWTSDF or Sale to authorized party
22	MEK & Methanol recovered	20.2	TPA	0	1368	1368	Recycle or Reuse or Sale to authorized party or CHWTSDF
23	Mix MEK+ Butanol /Acetone +IPA recovered	20.2	TPA	1503.36	1268.64	2772	Recycle or Reuse or Sale to authorized party or CHWTSDF
24	Recovered 2-Butanol	20.2	TPA	0	6	6	Recycle or Reuse or Sale to authorized party or CHWTSDF
25	Recovered Cyclohexane/EDC	20.2	TPA	0	528	528	Recycle or Reuse or Sale to authorized party or CHWTSDF
26	Recovered Cyclohexane	20.2	TPA	0	1920	1920	Recycle or Reuse or Sale to authorized party or CHWTSDF

27	Recovered Ethyl alcohol	20.2	TPA	0	36	36	Recycle or Reuse or Sale to authorized party or CHWTSDF
28	Recovered IPA	20.2	TPA	161.04	1398.96	1560	Recycle or Reuse or Sale to authorized party or CHWTSDF
29	Recovered Isobutyl alcohol	20.2	TPA	0	0.72	0.72	Recycle or Reuse or Sale to authorized party or CHWTSDF
30	Recovered Methanol	20.2	TPA	208.92	1951.08	2160	Recycle or Reuse or Sale to authorized party or CHWTSDF
31	Recovered MPK	20.2	TPA	111.12	152.88	264	Recycle or Reuse or Sale to authorized party or CHWTSDF
32	Recovered Pet Ether	20.2	TPA	0	288	288	Recycle or Reuse or Sale to authorized party or CHWTSDF
33	Recovered Pet Ether & THF	20.2	TPA	0	24	24	Recycle or Reuse or Sale to authorized party or CHWTSDF
34	Recovered Toluene	20.2	TPA	1113.24	290.76	1404	Recycle or Reuse or Sale to authorized party or CHWTSDF
35	Recovered Triethylamine	20.2	TPA	345	15	360	Recycle or Reuse or Sale to authorized party or CHWTSDF
36	2-Butanol / Isopropyl alcohol (IPA) (Separated from MEK+Butanol mix	20.2	TPA	0	1008	1008	Recycle or Reuse or Sale to authorized party or CHWTSDF
37	Sodium Sulphide/SMM/Sodium Hydrogen Sulphide solution	20.2	TPA	3009.6	2.4	3012	Recycle or Reuse or Sale to authorized party or CHWTSDF
38	Recovered Acetone	20.2	TPA	0	12	12	Recycle or Reuse or Sale to authorized party or CHWTSDF
39	Recovered Butanol	20.2	TPA	0	24	24	Recycle or Reuse or Sale to authorized party or CHWTSDF
40	Recovered EDC	20.2	TPA	72.96	35.04	108	Recycle or Reuse or Sale to authorized party or CHWTSDF
41	Recovered Xylene	20.2	TPA	0	36	36	Recycle or Reuse or Sale to authorized party or CHWTSDF
42	Spent Solvent	20.2	TPA	0	36	36	Recycle or Reuse or Sale to authorized party or CHWTSDF
43	THF recovered	20.2	TPA	0	228	228	Recycle or Reuse or Sale to authorized party or CHWTSDF
44	Recovered Heptane	20.2	TPA	0	12	12	Recycle or Reuse or Sale to authorized party or CHWTSDF

45	Aluminium Chloride Solution	20.2	TPA	0	48	48	Recycle or Reuse or Sale to authorized party or CHWTSDF
46	Aniline recovered	--	TPA	0	156	156	Recycle or Reuse or Sale to authorized party or CHWTSDF
47	Dione Residue	--	TPA	0	60	60	Recycle or Reuse or Sale to authorized party or CHWTSDF
48	Hydrochloric acid solution (18-22%)	--	TPA	0	480	480	Recycle or Reuse or Sale to authorized party or CHWTSDF
49	Phosphoric acid layer	--	TPA	4.8	7.2	12	Recycle or Reuse or Sale to authorized party or CHWTSDF
50	Prionyl Residue/Distillation Residue (HaZ Waste)	--	TPA	0	24	24	Recycle or Reuse or Sale to authorized party or CHWTSDF
51	Recovered Barium hydroxide	--	TPA	12	108	120	Recycle or Reuse or Sale to authorized party or CHWTSDF
52	Recovered Butyric acid	--	TPA	0	24	24	Recycle or Reuse or Sale to authorized party or CHWTSDF
53	Recovered Isobutyric acid	--	TPA	0	12	12	Recycle or Reuse or Sale to authorized party or CHWTSDF
54	Sodium Borate	--	TPA	0	12	12	Sale to authorized party or CHWTSDF
55	Sodium Chloride salt	--	TPA	0	72	72	Sale to authorized party or CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	6 TPH Boiler II (Removed)	Coal - 22.5 TPD	1	30	0.5	180
2	8 TPH Boiler III	Coal - 22.5 TPD	2	42	1.3	180
3	18 TPH Boiler IV	Coal – 50 TPD	3	46 (common stack)	2	180
4	15 TPH Boiler V	Coal -40 TPD	3	46 (common stack)	2	180
5	6 TPH Boiler I	FO/ Terpene Biofuel/Column Bottom mass (Residue): 4.2 KLPD/5.09 KLPD	3	46 (common stack)	2	180
6	750 KVA DG set	HSD - 60 Lit/hr	4	12	0.177	185
7	1000 KVA DG set	HSD - 80 Lit/hr	5	12	0.177	185
8	625 KVA DG set	HSD - 60 Lit/hr	6	12	0.177	185
9	125 KVA DG set	HSD - 15 Lit/hr	7	12	0.177	185

10	380 KVA DG set	HSD - 45 Lit/hr	8	12	0.177	185
11	100 kg/Hr Incinerator - I	HSD – 240 Lit/day	9	30	0.25	160
12	6 Lkcal/Hr Thermic Fluid Heater I	FO / Biofuel: 0.55 KLPD/0.81 KLPD	10	30	0.25	160
13	50 Lac kcal/Hr Thermic Fluid Heater II (Proposed)	Coal - 35 TPD	11	45	1	200
14	Pyro 101- 1500 LPH Pyro 201- 1500LPH Pyro 301- 1200 LPH Pyro 401- 1200 LPH Pyro 501- 1200 LPH (Proposed)	FO/Terpene Biofuel-265 Kg/hr	12	27	0.3	160
15	2 Lkcal/Hr (Oil Fired), 2 Lkcal/Hr (Oil Fired), 1 Lkcal/Hr (Oil Fired) N2 Heater vent 1,2,3 (Proposed)	2 Lac kcal/hr each (Electrical heating) – 70KW X3 & 30KW X1	13	27	0.3	200
16	Scrubber vent 1, 2,3,4,5,6,7 (Proposed)	--	14	10	0.2	--
17	20 TPH Boiler ((Proposed Standby)	FO/ Terpene Biofuel/Column Bottom mass (Residue)- 30 MT/Day	15	46	2	140
18	60 TPH Boiler in place of existing 30TPH Boiler (Proposed)	Coal- 220 TPD	16	53	1.8	180
19	Solid - 83 kg/Hr Liquid- 125 kg/Hr Gas- 250 Kg/Hr Incinerator – II (Proposed)	FO/HSD/ Terpene Biofuel- 120 kg/hr	17	35	0.55	100
20	2 x 500 KVA DG sets	HSD - 100 Lit/hr (for both)	18	12	0.177	185
21	2 x 1000 KVA DG set (Proposed)	HSD-100 Lit/hr	19	12	0.177	185

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	135 TPD	250 TPD	390 TPD
2	Furnace Oil / and	4.75 KLD	35.53 KLD	40.28 KLD
3	Terpene Biofuel /and	5.9 KLD	39.24 KLD	45.14 KLD
4	Colum bottom mass	0	4 KLD	4 KLD
5	HSD	485 Lit/ Hr	200 Lit/Hr	685 Lit/Hr
41.Source of Fuel		Nearby source		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	Green Belt within plot- 5047.77 sq. m & Green Belt within MIDC OS plot- 18565 sq. m
	No of trees to be cut :	Nil
	Number of trees to be planted :	5000 Nos (approx) (2021 nos already planted)
	List of proposed native trees :	Refer below
	Timeline for completion of plantation :	2 year

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Jambul	Malabar plum	as per green belt development	Fast Growing, Evergreen, Round
2	Kokam	Garcinia indica	as per green belt development	Fast Growing, Evergreen, Round
3	Kaju	Anacardium occidentale	as per green belt development	Fast Growing, Evergreen, Oblong
4	Mango	Mangifera indica	as per green belt development	Fast Growing, Evergreen, Conical/ Rounded
5	Avala	Phyllanthus emblica	as per green belt development	Fast Growing, Evergreen, Round/ oblong
6	Fanas	Artocarpus heterophyllus	as per green belt development	Fast Growing, Evergreen, Round/ oblong
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	--	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	DG Set 500 KVA
	During Operation phase (Connected load):	175 MVA
	During Operation phase (Demand load):	175 MVA
	Transformer:	--
	DG set as Power back-up during operation phase:	DG Set- Existing: 750 KVA,1000 KVA, 625 KVA, 125 KVA,380 KVA. Proposed: 2 x 1000 KVA , 2x500 KVA,
	Fuel used:	HSD (Diesel)
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

--

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar panel within site	180 KW
2	Solar power plant (offsite)	5.5 MW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution	Stack, ESP, Scrubber	ESP, Scrubber
Water pollution	ETP, RO, MEE, STP	ATFD
Nosie Pollution	Acoustic enclosure, Silencer	--
Hazardous waste	Recycle/Disposal to CHWTSDF/ Sale to authorized party	--

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 1104 Lakhs
	O & M cost:	Rs. 328 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)

1	Construction management	Site preparation, Material storage, C & D waste safe disposal, safe shelter for worker, Drinking water facility, PPE for worker, Sanitation facility	15

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Form utilities, Process, DG Set,	600	20
2	Environmetal Monitoring	Regular Monitoring	15	7
3	Water Pollution Control	ETP, RO, MEE, ATFD, STP	315	185
4	Hazardous Waste and Solid waste mangement	Storage and Disposal	10	50
5	Green Belt Development	Development and maintenance of green belt	15	10
6	Occupational health and safety	PPE, Safety tranining	20	50
7	Solar panel within site	Rooftop solar panel	114	6

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Acetic acid	---	1X 20 KL	20 KL	20 KL	---	Nearby Source	By Road
Phosphoric acid	---	1X 10 KL	10 KL	10 KL	---	Nearby Source	By Road
Acetic anhydride	---	1X30 KL	30 KL	30 KL	---	Nearby Source	By Road
Citral	---	2X30 KL,1X70 KL	130 KL	130 KL	---	Nearby Source	By Road
Alpha Pinene	---	3X200KL,1X450 KL	1050 KL	1050 KL	---	Nearby Source	By Road
MEK	---	2X18 KL	36 KL	36 KL	---	Nearby Source	By Road
METHANOL	---	1X18 KL,1X30 KL	48 KL	48 KL	---	Nearby Source	By Road
TOLUENE	---	1X18 KL	18 KL	18 KL	---	Nearby Source	By Road
Sulphuric acid	---	1X30 KL,1X20 KL	50 KL	50 KL	---	Nearby Source	By Road

Caustic lye	---	1X30 KL	30 KL	30 KL	---	Nearby Source	By Road
OTBP/Beta Ionone	---	2X25 KL	50 KL	50 KL	---	Nearby Source	By Road
Pseudo Ionone	---	1X30 KL	30 KL	30 KL	---	Nearby Source	By Road
Aniline	---	1X10 KL	10 KL	10 KL	---	Nearby Source	By Road
Petroleum Ether	---	2X25 KL	50 KL	50 KL	--	Nearby Source	By Road
50% Hydrogen Peroxide	---	1X20 KL	20 KL	20 KL	--	Nearby Source	By Road
Acetone	---	2X25 KL	50 KL	50 KL	--	Nearby Source	By Road
Liquid Ammonia	---	1X8 KL,1X20 KL	28 KL	28 KL	--	Nearby Source	By Road
90% Sulphuric acid	---	1X5 KL,1X3	8 KL	8 KL	--	Nearby Source	By Road
70% Sulphuric acid	---	1X30 KL	30 KL	30 KL	--	Nearby Source	By Road
GTO	---	1X130 KL	130 KL	130 KL	--	Nearby Source	By Road
CST	---	1X600,3X850 KL	3150 KL	3150 KL	--	Nearby Source	By Road
F.O.	---	1X30 KL,1X8 KL	38 KL	38 KL	--	Nearby Source	By Road
BETA PINENE	---	1X300 KL	300 KL	300 KL	--	Nearby Source	By Road
DHMOL	---	4X30 KL,1X70 KL	190 KL	190 KL	--	Nearby Source	By Road
Terpene Biofuel	---	1X300 KL	300 KL	300 KL	--	Nearby Source	By Road
DDTO	---	1X300 KL	300 KL	300 KL	--	Nearby Source	By Road
DIPENTENE	---	2 X20 KL	40 KL	40 KL	--	Nearby Source	By Road
DHM CRUDE	---	2X125 KL	250 KL	250 KL	--	Nearby Source	By Road
ALPHA PINENE	---	1X130 KL, 1X 200 KL	320 KL	320 KL	--	Nearby Source	By Road
DMS	---	1X15 KL	15 KL	15 KL	--	Nearby Source	By Road
GPMI	---	1X30 KL	30 KL	30 KL	--	Nearby Source	By Road
GMI	---	1X30 KL	30 KL	30 KL	--	Nearby Source	By Road
CIS PINANE	---	1X225KL,1X47 KL, 1X30 KL	202 KL	202 KL	--	Nearby Source	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--

Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	8000.24 sq.m (offsite)
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5(f)-B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP submitted water waste water management in the EIA report and also indicated water requirement at Sr. No 37 of the Consolidated Statement.
Drainage pattern of the project	PP considered contour levels while designing the drains on site
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.

Solid Waste Management	PP submitted Solid Waste Management in the EIA report and also indicated water requirement at Sr. No 36 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	PP submitted Energy Management in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads along with nine meter turning radius.
Landscape Plan	PP provided 33% green belt
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP submitted EMP in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Any other issues related to environmental sustainability	Not Applicable for ToR stage

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006.

PP has obtained earlier EC vide No. SEAC-2010/CR-43/TC-2 dated 08.10.2015, PP to submit copy of certified compliance report of the earlier EC received from the Regional Office of MOEF&CC as per OM dated 15.01.2018.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

1. PP to submit certificate of incorporation of the company. list of directors and memorandum of articles and memorandum of association.

2. PP to submit consent copies from the year of establishment to till date.

3. PP to submit lay out plan showing entry and exit gates ,internal roads with minimum width of six meters and turning radius of nine meters all around the manufacturing buildings and chemical storage areas to ease the movement of fire tender in case of an emergency, location of all pollution control equipment like boiler stack, DG stack, Effluent Treatment Plant, Sewage Treatment Plant, Scrubbers , parking areas, 33% green belt in the plant premises, solid and hazardous waste storage areas, rain water harvesting etc.

4. PP to conduct fire safety audit from competent Authority and submit report on fire load calculation for individual manufacturing buildings, chemical storage areas with remarks on the adequacy of existing fire prevention measures and proposed mitigation measures to prevent fires and unforeseen accidents.

5. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.

6. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

7. PP to submit design details of the ETP along with pollution load calculations.

8. PP to carry out HAZOP and Quantitative Risk Assessment study to assess the fire potential and its impact inside the premises as well as outside the premises with mitigation measures. PP to submit a Disaster Management Plan.

9. PP to include reuse/ recycle/disposal mechanism of the byproducts generated during the manufacturing.

10. PP to submit copy of stability certificate of existing structures on site.

11. PP to submit details of the waste material management plan in the EIA report.

12. PP to submit process engineering design details like reactors and other process equipment design along with proposed process controls to ensure the safety of people and quality of the products.

13. PP to submit chemical handling protocol for all the raw materials to be used on site.

14. PP to use solar energy for office building and street lights.

15. PP to provide lightening arrestors

16. PP to submit CSR plan to be prepared in consultation with the District Authorities along with its implementation schedule. PP to maintain separate account for CSR funds.

DECISION OF SEAC

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Aditya Environmental Services Pvt. Ltd.

ToR was granted to the PP in 149th meeting of SEAC- 1 held on 06.04.2018.

Now PP submitted EIA/EMP report for appraisal.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

During deliberations it is observed that, the proposal is for expansion; the earlier plot area was 59416 Sq.mtrs and the proposed plot area is 71552 Sq. mtrs. But PP has not increased green belt area within the plot premises instead proposing to use additional area for manufacturing activity and approached MIDC to obtain additional area for the development of green belt. PP may explore possibility to provide required green belt within the plot premises

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

Specific Conditions by SEAC:

1) PP to spend part CER funds for the conservation and protection of crocodiles observed in the study area in consultation with the competent Authority of Forest Department
2) PP proposes to discharge 98 CMD of treated effluent to the CETP and 302 CMD will be recycled.
3) PP acquired additional area from the MIDC for the development of green belt. PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.
4) PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
5) PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (day-2) **Meeting Date** September 8, 2021

Subject: Environment Clearance for Stone Quarry mining at Village: Hartale, Tal: Muktainagar, Dist: Jalgaon.

Is a Violation Case: No

1.Name of Project	Hartale Stone Quarry at Village: Hartale, Ta: Muktainagar, Dist: Jalgaon.
2.Type of institution	Private
3.Name of Project Proponent	Shri. Hariom Shaligram Jaiswal.
4.Name of Consultant	JV Analytical Services
5.Type of project	Stone Quarry Mining
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Gut No. 145/2/2 (Part), Village: Hartale, Ta: Muktainagar, Dist: Jalgaon.
9.Taluka	Muktainagar
10.Village	Hartale
Correspondence Name:	Shri. Hariom Shaligram Jaiswal.
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Village : Bodwad, Taluka : Bodwad
City:	Jalgaon
11.Whether in Corporation / Municipal / other area	Grampanchayat Hartale
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: Mining Plan Approval no. STC-06 (Mining Plan) /2018/598
	Approved Built-up Area: 11700
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	1.17 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 11700
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 15-11-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	5500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Not applicable
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Basalt Stone	NA	4500	4500

32.Total Water Requirement

Dry season:	**Source of water**	Tanker water
	Fresh water (CMD):	5.30
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5.30 M3/day
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	-	0.3	0.3	-	0.03	0.03	-	0.27	0.27
Gardening	-	2.50	2.50	-	2.50	2.50	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	40 Meter
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Not applicable
	Budgetary allocation (O & M cost) :	Not applicable
	Details of UGT tanks if any :	Not applicable

35.Storm water drainage	**Natural water drainage pattern:**	The run-off will be maintained by providing garland drains around the quarry boundary to maintain the natural pattern.
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	0.27 KLD
	STP technology:	Septic tank followed by soak pit will be provided.
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	100000
	Budgetary allocation (O & M cost):	10000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Overburden soil or Murrum will be used for plantation
	Disposal of the construction waste debris:	Not applicable
Waste generation in the operation Phase:	**Dry waste:**	Overburden will be backfilled in the mine pit.
	Wet waste:	Not applicable
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Overburden will be backfilled in the mine pit.
	Wet waste:	Not applicable
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	Not applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)

1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Amount of effluent generation (CMD):	Not applicable
Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable

41.Source of Fuel	Not applicable
42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	0.332 Ha
	No of trees to be cut :	No trees will be cut
	Number of trees to be planted :	500
	List of proposed native trees :	Attached below
	Timeline for completion of plantation :	2 Year

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadicrta indica	Neem	32	Medicinal value, To control soil erosion.
2	Syzygium cumini	Jambhul	36	Medicinal value, Edible fruit.
3	Tamarindus indica	Tamrind	30	Medicinal plants,Fruit an important condiment in Indian cuisine, tolerates drought

4	Pongia Pinnata	Karanj	32	Karanja is a medium-sized evergreen or briefly deciduous tree, Karanja trees have been used for soil reclamation
5	Ficus Recemosa	Umber	28	Medicinal value, Edible fruits, Bird attracting species
6	Ficus relegiosa	Pimpal	30	The fruits, leaves, bark and even the latex are used to prepare herbal remedies, Ficus religiosa is tolerant to various climate zones
7	Termanilia arjuna	Arjun	27	Medicinal value, helping to reduce soil erosion
8	Magnifera indica	Amba	30	Edible fruits, varied medicinal properties are attributed to different parts of mango tree.
9	Dalbergia sissoo	Shisam	35	Medicinal value, Bird attracting species
10	Eucalyptus Spp	Nilgiri	35	Nilgiri oil is useful in many pharmaceutical preparations, flavouring of cough lozenges, mouth gargles, toothpastes, perfumes, repellents against mosquitoes, vermins, germicides etc.
11	Samanea saman	Rain tree	32	A multipurpose tree
12	Tectona grandis	Sagvan	30	Teak is a large, long, deciduous tree
13	Leucaenaleuco cephala	Subabhul	30	It is one of the fast growing hardy evergreen species., Because of its strong and deep root system, the tree is highly drought resistant.
14	Cassia fistula	Bahava	27	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
15	Delonix regia	Gulmohor	32	Gulmohar is an ornament plant
16	Ficus benghalensis	Vad	34	largest trees by canopy coverage, The figs produced by the tree are eaten by birds
17	Total	-	500	-
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Not applicable
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	Not applicable
	During Operation phase (Demand load):	Not applicable
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	Not applicable
	Fuel used:	Not applicable
	Details of high tension line passing through the plot if any:	No high tension line passing through the plot

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not applicable	Not applicable

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution	NA	A thick green belt will be maintained around the lease area and on both sides of the haul roads
Noise pollution	NA	A thick green belt will be maintained around the lease area and on both sides of the haul roads. Appropriate PPE's like ear muffs and ear plugs will be provided to workers exposed to high frequency noise
Solid Waste management	NA	The overburden will be used for green belt development , surplus will be backfilled in the pit and afforestation will be done.
Sewage water	NA	Septic tank followed by soak pit will be provided.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not applicable

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution	Approach roads to mines and service roads are provided with black topping to reduce dust generation, Sprinkling of water on quarry and haul roads	0.60	0.10
2	Noise pollution	Thick green belt development, Provide PPE to workers	0.30	0.05
3	Solid Waste Management	The overburden will be used for green belt development , surplus will be backfilled in the pit and afforestation will be done.	0.30	0.05
4	Sewage Pollution Control	Septic tank followed by soak pit will be provided	1.00	0.10
5	Occupational Health	Personal Protective Equipment for workers	0.30	0.05
6	Environmental Monitoring	Environmental Monitoring	-	0.50
7	Total	-	2.50	0.85

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not applicable

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Not applicable
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	Not applicable
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Gautala Wildlife Sanctuary 102.09 km towards South West direction
	Category as per schedule of EIA Notification sheet	1 (a) Category B2
	Court cases pending if any	No
	Other Relevant Informations	Latitude Longitude R.L (meter) N 20° 59' 28.00" E 76° 03' 05.75" 295.64 N 20° 59' 27.88" E 76° 03' 08.45" 294.83 N 20° 59' 23.33" E 76° 03' 08.04" 298.37 N 20° 59' 22.24" E 76° 03' 05.59" 299.30
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable

Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant for Environmental Clearance under category1 (a)B2 as per EIA Notification, 2006. The proposal was earlier considered in the meeting of SEAC_1 where in it was decided to defer the proposal till subission of compliance of following points,

1. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.

2. PP to ensure that the name of project proponent on the records of District Survey Report, Approved Mining Plan, Ownership document and Environment Clearance Application are same.

3. DMO shall submit Regional Mining Plan including list of existing operational quarries with their areas and production potential along with status of EC, list of existing quarries operational under temporary permit, list of old/abandoned/closed mines along with status of mine closure as per approved mining plan or guidelines, list of proposed quarries included in the District Survey Report along with their area and mining potential etc. DMO shall also submit details of quarries operating in the district without obtaining Environmental Clearance along with action taken report.

4. PP to submit certificate with respect to the cluster formation in the proposed quarry area through District Mining Office along with drawing of the proposed area.

5. PP to submit proposed quarry area measurement map prepared by the District Superintendent of Land Records.

6. PP to ensure that, no existing excavation is being carried out on proposed site without obtaining prior Environmental Clearance, if such excavation is observed on the site DMO shall carry out the investigation of the same to ascertain whether the excavation was carried out after obtaining requisite permissions from the competent Authority, If no, the appropriate legal action shall be initiated against the defaulter and submit detailed report through concern Additional Collector.

7. All documents including approved mine plan, District Survey Report, EIA / EMP and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.

8. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

9. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

10. Details of any stream, seasonal or otherwise, passing through the lease area and modification /diversion proposed, if any, and the impact of the same on the hydrology should be brought out.

11. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

12. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

13. PP to ensure that, uniform information is given in the ownership documents, Form – 1M, Pre-feasibility Report , Consolidated Statement, Approved Mining Plan, District Survey Report and presentation etc.

DECISION OF SEAC

PP remained absent. Hence deferred.

Specific Conditions by SEAC:

10) PP to ensure that, uniform information is given in the ownership documents, Form – 1M, Pre-feasibility Report , Consolidated Statement, Approved Mining Plan, District Survey Report and presentation etc.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (day-2) **Meeting Date** September 8, 2021

Subject: Environment Clearance for Expansion project in manufacturing capacity of Ethanolamines & Alkanolamines, Morpholines & Morpholine oxide, Ethoxylates and Propoxylates from 1730 MT/M to 2730 MT/M at M/s. Amines and Plasticizers Ltd.

Is a Violation Case: No

1.Name of Project	Amines and Plasticizers Ltd.
2.Type of institution	Private
3.Name of Project Proponent	S. V. Badhe
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Synthetic Organic chemical Industry; 5 (f); Category B-1
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No.
8.Location of the project	D-21/21 A, TTC Industrial Area, Turbhe, Navi Mumbai,
9.Taluka	Thane
10.Village	Turbhe
Correspondence Name:	S. V. Badhe
Room Number:	Plot No. D-21/21 A,
Floor:	NA
Building Name:	NA
Road/Street Name:	TTC Industrial Area,
Locality:	Turbhe,
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	TTC Industrial Area, Turbhe
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 14983.621
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	73315
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 14983.621
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** N.A
	Approved Non FSI area (sq. m.): N.A
	Date of Approval: 03-07-2018
19.Total ground coverage (m2)	12325.474
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16.8
21.Estimated cost of the project	235000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Ethanolamines/ Alkanolamines: 1. Monoethanolamine 2. Diethanolamine 3. Triethanolamine-85% 4. Triethanolamine-Pure 5. N-Methylethanolamine 6. Methyl Diethanolamine 7. Di Methyl Ethanolamine 8. Di Ethyl Ethanolamine 9. N-Ethylethanolamine 10. Ethyl Diethanolamine 11. N-Propyl Ethanolamine 12. N-Propyl Diethanolamine 13. 2-Piperidinoethanol 14. Poly Ethanolamine	980	750	1730

2	Morpholines and Morpholine Oxide: 1. Morpholine 2. N-Methyl Morpholine 3. N- Methyl Morpholine Oxide-50% 4. N-Methyl Morpholine Oxide-60% 5. N-Ethyl Morpholine 6. N-Formyl Morpholine 7. Hydroxy Ethyl Morpholine 8. N-2-Hydroxy Ethyl Pyrrolidine	250	250	500
3	Ethoxylates & Propoxylates: 1. Triisopropanolamine solution 85 % 2. Di Ethyl isopropanolamine solution 85 % 3. Di Butyl Ethanolamine 4. 2 Phenoxy Ethanol 5. Tertiary Butyl Diethanolamine 6. Butyl Di Isopropanolamine 7. Polypropylene / Polyethylene Glycol 8. Block Co Polymers (Rheolease 4303, Rheolease, 2830, Rheolease 4822)	500	0	500

32.Total Water Requirement

Dry season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA

Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	**Consumption (CMD)**			**Loss (CMD)**			**Effluent (CMD)**		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	15	5	20	0	0	0	15	5	20
Industrial Process	80	40	120	20	10	30	60	30	90
Cooling tower & thermopack	125	150	275	105	125	230	20	25	45
Gardening	40	107	147	40	107	147	0	0	0
Fresh water requirement	260	302	562	165	242	407	95	60	155

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon season: 0.5 to 14.6 mgbl; Post Monsoon season: 1.2 to 6.9 mbgl
	Size and no of RWH tank(s) and Quantity:	Quantity of rainwater: 43.82 m3/day; Capacity of RWH Tank: 50 m3.
	Location of the RWH tank(s):	Near to Workshop.
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	500000
	Budgetary allocation (O & M cost) :	50000
	Details of UGT tanks if any :	Fire Fighting tank: 1100 m3 RWH Tank: 50 m3
35.Storm water drainage	**Natural water drainage pattern:**	Slope is towards the entry gate no. 2, the Storm Water Drainage is designed accordingly.
	Quantity of storm water:	5393.23 m3/hr
	Size of SWD:	Top Width: 1.52 m, Bottom width: 0.91, Depth: 1.22 m
Sewage and Waste water	**Sewage generation in KLD:**	20
	STP technology:	Sewage generated from daily activities after expansion will be treated in aeration tank of ETP.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	500000
	Budgetary allocation (O & M cost):	5000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	137 Ton of construction waste will be generated.
	Disposal of the construction waste debris:	The inert recyclable wastes such as iron roads, wooden flanks, cardboards, plastic materials will be segregated and sold to recyclers. The excavated soil will be used for green belt/area development activities within premises.
Waste generation in the operation Phase:	**Dry waste:**	Paper Waste: 150 kg/month, Decontaminated empty barrels / containers: 2000 units/month
	Wet waste:	NA
	Hazardous waste:	Used/Spent oil: 2.1 T/A, Chemical sludge: 3.76 T/A, Oily sludge emulsion: 3.15 T/A, Process waste: 900 T/A, Spent ion exchange resins: 2 KL/A, Contaminated cotton rags or other cleaning materials 1.7 T/A
	Biomedical waste (If applicable):	1. Soiled Waste: Category-Yellow, Quantity- 1 T/A; 2. Expired Medicines: Category-Yellow, Quantity-0.5 T/A
	STP Sludge (Dry sludge):	NA
	Others if any:	E-Waste: 1. Personal Computers: Category-ITEW2, Quantity-0.1 T/A; 2. Personal Computing-Laptop computers: Category-ITEW, Quantity-0.1 T/A; 3. Printers including cartridges: Category-ITEW6, Quantity-0.5 T/A; 4. Telephones: Category-ITEW12, Quantity-0.5 T/A. Battery Waste: Lead batteries from DG Sets, UPS system: Quantity-0.2 T/A

Mode of Disposal of waste:	**Dry waste:**	MPCB authorized recyclers
	Wet waste:	NA
	Hazardous waste:	The recyclable/ reprocessable hazardous waste will be sent to authorised recyclers/co-processing and the rest will be disposed through CHWTSDF.
	Biomedical waste (If applicable):	Disposal to CBMWTF/MPCB authorised processor
	STP Sludge (Dry sludge):	N.A.
	Others if any:	E-waste- Sale to MPCB authorised recycler / returned to manufacturer or supplier; Battery Waste- Returned to supplier.
Area requirement:	**Location(s):**	Near ETP Area and near Morpholine plant
	Area for the storage of waste & other material:	Area of 35 sq. m. will be demarcated for storage of hazardous waste.
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	15,00,000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Total Suspended Solids	mg/l	136	27	100
2	pH	-	9.5	7.5	6.5 to 8.5
3	BOD (3 days 27*C)	mg/l	2722	12	30
4	COD	mg/l	7499	44	250
5	TDS	mg/l	2286	743	2100
6	Oil & Grease	mg/l	9.8	1.1	10

Amount of effluent generation (CMD):	155
Capacity of the ETP:	240
Amount of treated effluent recycled :	74.99
Amount of water send to the CETP:	80
Membership of CETP (if require):	Industry has membership of CETP Thane Belapur Association (11-81983).
Note on ETP technology to be used	ETP of 240 CMD capacity will be provided with Primary, secondary and tertiary treatment and ultra-filtration shall be followed. The additional effluent due to proposed expansion will be reused within premises.
Disposal of the ETP sludge	After re-circulation, remaining sludge will be disposed to CHWTSDF.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/spend Oil	5.1	T/A	1.2	0.9	2.1	Sell to authorized recycler
2	Chemical sludge from waste water treatment	35.3	T/A	2.16	1.6	3.76	CHWTSDF/Co-processing
3	Oily sludge Emulsion	35.4	T/A	1.8	1.35	3.15	CHWTSDF
4	Process Waste (Sodium Sulphate)	36.1	T/A	900	0	900	CHWTSDF

5	Spent ion exchange Resin	35.2	KL/A	2	0	2	CHWTSDF
6	Contaminated cotton rags or other cleaning materials	33.2	T/A	1.2	0.5	1.7	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Steam Boiler 10 T/Hr	PNG	1	30	1	170
2	Steam Boiler 12 T/Hr	PNG	1	30	1	170
3	Steam Boiler 10 T/Hr. (Standby: This will replace existing briquette boiler)	PNG	1	30	1	170
4	Thermic Fluid Heater - 6 lakh Kcal/Hr. (To be discontinued)	PNG	2	30	0.4	180
5	Thermic Fluid Heater - 10 lakh Kcal/Hr. (To be discontinued)	PNG	2	30	0.4	180
6	Thermic Fluid Heater 1 lakh Kcal/Hr. (Standby; Existing LDO fired TFH will be converted into PNG fired TFH)	PNG	2	30	0.4	180
7	Thermic Fluid Heater 2 lakh Kcal/Hr. (Existing LDO fired TFH will be converted into PNG fired TFH)	PNG	2	30	0.4	180
8	Thermic Fluid Heater 12 lakh Kcal/Hr. (To be replaced by PNG fired TFH)	PNG	2	30	0.4	180
9	Thermic Fluid Heater 2.8 lakh Kcal/Hr. (To be discontinued)	LDO	3	6.63	1	180
10	Thermic Fluid Heater 2.8 lakh Kcal/Hr. (To be discontinued)	LDO	3	6.63	1	180
11	Thermic Fluid Heater 10 lakh Kcal/Hr. (Proposed-1)	PNG	4	30	0.4	180
12	Thermic Fluid Heater 10 lakh Kcal/Hr. (Proposed-2)	PNG	4	30	0.4	180

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquette (kg/hr.)	2076	-2076	0
2	FO (kg/hr.)	800	-800	0
3	PNG (m3/hr.)	541	2658	3199

4	LDO (kg/hr.)	220	-220	0
5	Diesel (DG Set, kg/hr.)	120	120	240
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		PNG: By pipeline; Diesel: By road		

43.Green Belt Development	**Total RG area :**	29326
	No of trees to be cut :	NA
	Number of trees to be planted :	325
	List of proposed native trees :	NA
	Timeline for completion of plantation :	Within 1 years after the receipt of Environment Clearance.

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Heterophragma quadriloculare	Waras	17	A important native species in India. A large deciduous tree which is noticeably attractive when in bloom
2	Oroxylum indicum	Tetu	17	Oroxylum indicum is a species of flowering plant belonging to the monotypic genus Oroxylum and the family Bignoniaceae, and is commonly called midnight horror, oroxylum Indian trumpet flower, broken bones, Indian caper, or tree of Damocles. It can reach a height of 18 metres (59 ft). Various segments of the tree are used in traditional medicine
3	Schleichera oleosa	Kusum	17	Schleichera is a monotypic genus of plants in the soapberry family, Sapindaceae. There is only one species, Schleichera oleosa, a tree that occurs in the Indian Subcontinent and Southeast Asia
4	Terminalia elliptica	Ain	17	Terminalia elliptica is a species of Terminalia native to southern and southeast Asia in India
5	Terminalia paniculata	Kinjal	17	Terminalia paniculata is a tree native to southwest India (including the Western Ghats and Karnataka). Known in the timber trade as kinjal It is economically important for wood, medicinal uses and raising silkworms.

6	Alstonia scholaris	Saptaparni	17	Alstonia scholaris, commonly called blackboard tree or devil's tree in English, is an evergreen tropical tree in the family Apocynaceae. Alstonia scholaris is a glabrous tree and grows up to 40 m (130 ft) tall. Its mature bark is grayish and its young branches are copiously marked with lenticels.
7	Butea monosperma	Palash	17	Butea monosperma is a species of Butea native to tropical and sub-tropical parts of the Indian Subcontinent. Common names include flame-of-the-forest, palash and bastard teak
8	Erythrina variegata	Panghara	17	Erythrina variegata is a much-branched deciduous tree growing from 3 - 27 metres tall. It has a fluted bole, the thick and sappy bole and branches are armed with large, scattered prickles, though cultivated forms are often unarmed. The plant is widely cultivated throughout the tropics, but especially in India, as an ornamental tree, a living fence, hedge plant, medicinal plant, shade tree and for soil conservation.
9	Mangifera indica	Amba	17	Mangifera indica, commonly known as mango, is a species of flowering plant in the sumac and poison ivy family Anacardiaceae. It is native to the Indian subcontinent where it is indigenous. Hundreds of cultivated varieties have been introduced to other warm regions of the world. It is a large fruit-tree, capable of growing to a height and crown width of about 30 metres (100 ft) and trunk circumference of more than 3.7 metres (12 ft)
10	Tabernaemontana alternifolia	Naagkuda	17	Tabernaemontana alternifolia is a species of plant in the family Apocynaceae. It is endemic to India
11	Macaranga peltata	Chandwar	17	Mallotus tetracoccus is a pioneer or early-successional or early-secondary tree species more common in forest edges, clearings, and secondary forests than in mature forest interiors. Ecophysiological studies indicate that Macaranga peltata shows a combination of high quantum use efficiency of photosynthetic system (Fv/Fm) and relative growth rates under higher light conditions, similar in pattern to other pioneer species such as Mallotus tetracoccus

12	Azadirachta indica	Neem	17	Azadirachta indica, commonly known as neem, nimtree or Indian lilac, is a tree in the mahogany family Meliaceae. It is one of two species in the genus Azadirachta, and is native to the Indian subcontinent. It is typically grown in tropical and semi-tropical regions. Neem trees also grow in islands located in the southern part of Iran. Its fruits and seeds are the source of neem oil.
13	Bridelia retusa	Asana	17	This is the commonest Indian species of Bridelia, found in dry deciduous to moist deciduous forests, mixed forest, riverbanks, rocky places. Found throughout the country excluding Andaman and Nicobar Islands. The bark of the roots is used in traditional medicine
14	Bomba xceiba	Sawar	17	Bombax ceiba, like other trees of the genus Bombax, is commonly known as cotton tree. More specifically, it is sometimes known as Malabar silk-cotton tree; red silk-cotton; red cotton tree; or ambiguously as silk-cotton or kapok. It produces a capsule which, when ripe, contains white fibres like cotton. Its trunk bears spikes to deter attacks by animals. Although its stout trunk suggests that it is useful for timber, its wood is too soft to be very useful.
15	Pterospermum acerifolium	Muchkund	17	Pterospermum is a flowering plant genus. Traditionally included in the family Sterculiaceae, it is included in the expanded Malvaceae in the APG and most subsequent systematics.
16	Cordia dichotoma	Shelu	17	Cordia dichotoma (C. dichotoma) is one of the traditional medicinally important deciduous plants available all over India. dichotoma is chief ingredient. From the ancient time, leaves and stem bark are used in the treatment of dyspepsia, fever, diarrhea, leprosy, gonorrhoea and burning sensation.
17	Neolamarckia cadamba	Kadamba	17	Neolamarckia cadamba, with English common names burflower-tree, laran, and Leichhardt pine, and called kadam locally, is an evergreen, tropical tree native to South and Southeast Asia. It has scented orange flowers in dense globe-shaped clusters. The flowers are used in perfumes. The tree is grown as an ornamental plant and for timber and paper-making. Kadam features in Indian religions and mythologies.

18	Firmiana colorata	Kaushi	17	Sterculia colorata, the scarlet sterculia, is a medium-sized tree with spreading branches. It sheds leaves before the onset of flowering. After leaf-shedding, buds sprout and develop into flowers. The tree flowers from March to April. The genus Sterculia was named after the Latin god Sterculius.
19	Millingtonia hortensis	Kavalnimb	19	It is a versatile tree which can grow in various soil types and climates with a preference for moist climates. Like Parijata it blooms in night and sheds during morning. Flowers give very pleasant smell.
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	6000 kW
	DG set as Power back-up during construction phase	750 kVA
	During Operation phase (Connected load):	1992
	During Operation phase (Demand load):	1350
	Transformer:	2000 kVA
	DG set as Power back-up during operation phase:	2 x 750 kVA
	Fuel used:	Diesel, 240 kg/hr.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar energy will be used for streetlights and rooftop solar system will be installed on building

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar streetlights & Roof top solar power system will be installed	0.25 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air emissions	The existing Boiler & TFH fuel will be replaced with fuel PNG to reduce SO2 & PM emissions. A stack height of 30 m is provided for all the boiler and thermic fluid heater stacks. Multi cyclone dust collector is provided to briquette fired boiler. Stack of D.G set is 5.4 m above roof.	Stack height of 30 m will be provided to additional thermic fluid heaters. Cleaner fuel – PNG will be continued to be adopted to reduce SO2 & PM emissions.
Liquid Effluent	ETP of 160 CMD is provided at site with primary, secondary and tertiary treatment.	ETP capacity will be 240 CMD will be provided with Primary, secondary and tertiary treatment and ultra-filtration shall be followed. The additional effluent due to proposed expansion will be reused within premises.
Noise & Vibrations	The D.G set is installed in an isolated place and acoustic enclosures have been provided. PPE's are provided to workers.	The same practice will be followed.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1500000
	O & M cost:	150000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	• Dust abatement by water sprinkling • Creating Wind barrier for controlling the dust emission	4.5
2	Sewage	• Treatment in existing ETP	0
3	Noise	• Provision of PPEs for Construction workers, Creating Wind barrier for controlling the dust emission	2.0
4	Solid Waste Management	Disposal, Transportation of Solid waste,	2.5
5	Occupational Health & Safety	Breathing masks, Safety PPEs to construction workers	2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	• Stack with 30 m height will be provided to TFH stack • Maintenance of stack (R)	5	0.2
2	Water	• Primary, Secondary and tertiary treatment, Ultrafiltration • Maintenance cost of ETP (R)	100	8

3	Occupational Health	• PPE's to employees, Regular monitoring of health checkups • Addition of new PPEs and Maintenance cost (R)	2	0.5
4	Noise	• Acoustic enclosures to DG Set • Maintenance cost (R)	0.5	0.1
5	Hazardous waste	• Disposal of Hazardous Waste to common hazardous waste disposal facility (R)	0	15
6	Green Belt	• Development of green belt in the proposed green belt area. • Maintenance of green belt (R)	5	15
7	Rain Water Harvesting system	• Installation of Rain Water Harvesting collection system with 50 KL storage capacity • Annual cleaning and Maintenance (R)	5	0.5
8	Environmental Monitoring	• Quarterly Environment Monitoring (R) • Installation of CEMS & Effluent monitoring system	50	6
9	Energy Saving Measures	• Solar street lights and rooftop solar harvesting system • Maintenance of the solar harvesting system (R)	15	1.5
10	EC Conditions Monitoring	• Third party monitoring of Compliance of E.C. Conditions (R)	0	5

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Ethylene oxide	Gas	Above ground Storage tank	50	50	1050	Local	By road
Propylene oxide	Liquid	Above ground Storage tank	50	50	150	Local	By road
Formaldehyde	Liquid	Above ground Storage tank	30	30	330	Local	By road
Formic acid	Liquid	Above ground Storage tank	30	30	210	Local	By road

Hydrogen peroxide	Liquid	Above ground Storage tank	30	30	240	Local	By road
Caustic Lye	Liquid	Above ground Storage tank	30	30	60	Local	By road
Sulphuric Acid	Liquid	Above ground Storage tank	10	10	30	Local	By road
Liquor Ammonia	Liquid	Above ground Storage tank	30	30	15	Local	By road
Morpholine	Liquid	Above ground Storage tank	100	100	350	Local/import	By road/By sea
Mono Methyl Amine	Gas	Above ground Storage tank	120	120	750	Local	By road
Mono Ethyl Amine	Liquid	Above ground Storage tank	125	125	150	Local	By road
Ethyl Ethanolamine	Liquid	Above ground Storage tank	125	125	1087.5	Local	By road
Piperidine	Liquid	Drums	10	10	20.22	Local	By road
Methyl Diethanolamine	Liquid	Above ground Storage tank	600	600	42.6	Local	By road
Caustic Flakes (3,0,1)	Solid	Bags	15	15	13.08	Local	By road
N Methyl Morpholine	Liquid	Above ground Storage tank	20	20	214.39	Local	By road
Ethyl Monoethanolamine HB (3,2,1)	Liquid	Above ground Storage tank	100	100	42	Local	By road
Diethanolamine	Solid	Above ground Storage tank	50	50	1749	Local	By road
Methanol	Liquid	Drums	10	10	1.95	Local	By road
Di-Butyl Amine	Liquid	Above ground Storage tank	10	10	119.25	Local	By road
Phenol	Liquid	Drums	20	20	113.1	Local	By road
Tertiary Butyl Amine	Liquid	Drums	10	10	85.5	Local	By road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	7332.58 sq. m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP submitted water waste water management in the EIA report and also indicated water requirement at Sr. No 37 of the Consolidated Statement.
Drainage pattern of the project	PP considered contour levels while designing the drains on site
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.

Solid Waste Management	PP submitted Solid Waste Management in the EIA report and also indicated water requirement at Sr. No 36 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	PP submitted Energy Management in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads along with nine meter turning radius
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report
Environmental Management Plan	PP submitted EMP in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006.

During deliberations, it was observed that, proposed expansion unit is loacted in the Critically Polluted Area as identified in the Hon'ble National Green Tribunal order dated 10.07.2019.

The para 10 of the Hon,ble National Green tribunal order dated 23.08.2019 reads as belwo,

".....The MoEF&CC can forthwith devise an appropriate mechanism to ensure that new legitimate activity or expansion can take place after due precautions are taken in the areas of question by 'red' and 'orange' category of units."

In view of above directions from the Hon'ble national Green Tribunal, SEAC-1 decided to call for the report from the Maharashtra Pollution Control Board to ensure whether adequate precautionary measures are undertaken by the PP to achieve prescribed standards of environmental parameters as stipulated in the Consent to Operate letter.

SEAC is of the view that, if the PP has undertaken all precautuinary measures to mitigate the pollution and environemntal parameters in their industrial unit are within precribed limits as certified by the MPCB, then the proposal can be considered for appraisal.

The proposed project is located in the Navi Mumbai area which is identified by CPCB as Severely Polluted Area. SEAC-1 appraised the proposal as per OM issued by MoEF&CC dated 30.12.2019.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

1. PP to submit point wise compliance of the specific conditions stipulated in the OM issued by MoEF&CC dated 30.12.2019

2. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles/association.

3. PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 40% green belt with its dimensions, 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.

4. PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.

5. PP to carry out life cycle analysis of all the products manufactured on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.

6. PP to include detailed product wise material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

7. PP to include detailed water balance calculations along with design details of effluent treatment plant and copy of CETP permission mentioning quantity of treated effluent permitted to discharge in the CETP in case no such permission is obtained, PP to submit design details of ZLD Effluent Treatment Plant in the EIA report.

8. PP to carry out scrubber adequacy study and include in the EIA report.

9. PP to submit details of revised EMP & CER as per OM issued by MoEF&CC dated 30.12.2019.

10. PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

11. PP to carry out HAZOP and QRA and submit disaster management plan.

12. PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.

13. PP to submit technical note on how proposed expansion will be accommodated in the existing manufacturing plant along with equipment layout, spaces required for storage of raw materials and finished products etc.

14. PP to submit structural stability certificate of existing building with respect to the proposed expansion.

15. PP to include water and carbon foot print monitoring in the EMP.

16. PP to submit hazardous chemical handling protocol

17. PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly. PP to provide lightening arrestor.

18. PP to ensure that, the uniform information is given in the Form-I/II, EIA/EMP report and presentation, consolidated statement.

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Sadekar Enviro Engineers Pvt. Ltd.

ToR was granted to the PP in 176th meeting of SEAC- 1 held on 27.01.2020.

Now PP submitted EIA/EMP report for appraisal.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

Specific Conditions by SEAC:

1) PP to spend part CER funds for the conservation and protection of crocodiles observed in the study area in consultation with the competent Authority of Forest Department
2) PP proposes to discharge 80 CMD of treated effluent to the CETP and 75 CMD will be recycled.
3) PP to comply with all recommendations of the HAZOP and Risk Assessment study.
4) PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
5) PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.
6) PP to provide obstruction free access road to the ETP area.
7) PP to build adequate capacity wall in the hilly area so as to minimize impact of land slide if any.
8) PP to use PNG as a fuel to existing as well as proposed utilities.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.