149th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 149th Day - 5 **Meeting Date** April 6, 2018

Subject: Environment Clearance for Proposed Expansion of Synthetic Organic Chemicals Manufacturing Facility by Excel Industries Limited at Plot No.D-9, MIDC, Lote Parshuram, Taluka Khed, Dist. Ratnagiri

Is a Violation Case: No

1.Name of Project	Proposed Expansion of Synthetic Organic Chemicals Manufacturing Facility by Excel Industries Limited at Plot No.D-9, MIDC, Lote Parshuram, Taluka Khed, Dist. Ratnagiri
2.Type of institution	Private
3.Name of Project Proponent	Excel Industries Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial
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	Existing EC letter SEAC-2010/CR.516/TC-2 dated 6th July 2011
8.Location of the project	Plot No.D-9, MIDC, Lote Parshuram, Taluka Khed, Dist. Ratnagiri
9.Taluka	Khed
10.Village	Lote
Correspondence Name:	Ekanath Karekar
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	MIDC Lote Parshuram
12.IOD/IOA/Concession/Plan Approval Number	MIDC Lote Parshuram
	IOD/IOA/Concession/Plan Approval Number: MIDC plot plan approval
	Approved Built-up Area: 31173.63
13.Note on the initiated work (If applicable)	Existing facility pertains to manufacturing of synthetic organic chemical.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plot plan approval
15.Total Plot Area (sq. m.)	73303 sq.m
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.): 31173.63
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	1250000000

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)	As per MIDC DC rule
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	As per MIDC DC rule
29.Existing structure (s) if any	Existing facility is for manufacturing of synthetic organic chemical.
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	Sodium Penta Chloro Phenate and its Formulations	1800 TPA	700 TPA	2500 TPA
2	Hydroxy Ethylidene Di- Phosphonic Acid and its Formulations (Codex 661 and Formulation)	7200 TPA	27800 TPA	35000 TPA
3	Acetyl Chloride	3600 TPA	2900 TPA	6500 TPA
4	Sodium Salt of 5 Sulphono Isopathalic Dimethyl Ester (SIPM)	360 TPA	0 TPA	360 TPA
5	Amino Tri-methylene Phosphonic Acid and its formulations (ATMP)	1200 TPA	10800 TPA	12000 TPA
6	Codex-551	600 TPA	0 TPA	600 TPA
7	Dispercel -32 (Poly Maliec Acid)	252 TPA	0 TPA	252 TPA
8	THPE [1,1,1, Tris (4-Hydroxy Phenyl) Ethane]AND/OR DMBPC (Di-methyl Bis Phenol Cyclohexane (DMBPC) and its Derivatives	1025 TPA	475 TPA	1500 TPA
9	Lauracel	30 TPA	0 TPA	30 TPA
10	4 - Hydroxythiobenzamide FEBUXOSTAT T1	12 TPA	0 TPA	12 TPA
11	Ethyl 2-(4-hydroxyphenyl)-4-methylthiazole-5-carboxylate FEBUXOSTAT T2	18 TPA	0 TPA	18 TPA
12	Ethyl 2-(3-formyl-4 hydroxyphenyl)-4-methylthiozole-5-carboxylate FEBUXOSTAT T3	15 TPA	105 TPA	120 TPA
13	Ethyl 2-(3-formyl-4 isobutoxyxyphenyl)-4-methylthiozole-5-carboxylate FEBUXOSTAT T4	14 TPA	0 TPA	14 TPA
14	Ethyl 2-(3-cyano-4 isobutoxyxyphenyl)-4-methylthiozole-5-carboxylate FEBUXOSTAT T-5 and / OR Ethyl 2-(3-cyno-4 Isobutoxyphenyl)-4-methyl-1, 3 thiazole-5carboxylic acid Febuxostat	42 TPA	33 TPA	75 TPA
15	Ethyl 2-(3-cyno-4 Isobutoxyphenyl)-4-methyl-1, 3 thiazole-5carboxylic acid FEBUXOSTAT T-6	0 TPA	25 TPA	25 TPA
16	5-(Bromomethyl)-4-(4-fluorophenyl)-6-(-1-methylethyl)-2-methyl (methylsulfonyl)amino pyrimidine Z 7 Br	48 TPA	0 TPA	48 TPA
17	Phosphonium,{[4-(4-flurophenyl)-6-(1-methyllethyl)-2[methyl methylsulfonyl0amino]-5 pyrimidinyl] methyl] triphenyl bromide (1:1) Z 8.2	60 TPA	0 TPA	60 TPA
18	N- [4-(4- Flurophenyl) -5 formyl-6-(1-methylethyl)-2-pyrimidinyl]-N-methyl methane sulfonamide Z 7 Formyl	25 TPA	0 TPA	25 TPA
19	6-Hydroxy-3,4-dihydro-1H-quinoline-2-one 6 HQ	20 TPA	0 TPA	20 TPA

20	4-[4-[4-(hydroxydiphenylmethyl)-1-piperidinyl]-hydroxybutyl]-a-a-dimethylphenylacetic acid Fexofenadine N-1 and / OR a,a- Dimethyl -4-[1- Hydroxy -4 [4-(hydroxydiphenylmethyl)-1-piperidinyl)—piperidinyl]butyl]-benzeneacetic acis hydrochloride (Fexofenadine Hydrochloride) and its derivatives	26 TPA	0 TPA	26 TPA
21	1,3; 2,4 –bis (3,4- dimethyl benzylidene) sorbitol Exclar	75 TPA	0 TPA	75 TPA
22	n- Octyl Phosphonic acid NOPA	75 TPA	0 TPA	75 TPA
23	Pregabelin ((S) -3-(aminomethyl)-5-methylhexanoic acid) and its intermidiates	20 TPA	0 TPA	20 TPA
24	Sitagliptine Phosphate, (3-(Trifluromethyl)-5,6,7,8 – tetrahydro-[1,2,4] triazolo [4,3-a] pyrazine hydrochloride)(intermediate)	20 TPA	0 TPA	20 TPA
25	4-[5-(4-Methylphenyl)3-3-(trifluoromethyl pyrazol-1-yl] benzenesulfonamide and Celecoxib intermediate (4- Hydrazinobenzene-1-sulfonamide Hydrochloride)	10 TPA	0 TPA	10 TPA
26	Benfotamine Phosphate	20 TPA	0 TPA	20 TPA
27	Celestistat	6 TPA	0 TPA	6 TPA
28	Silodosine	2 TPA	0 TPA	2 TPA
29	4- Acetoxy styrene (4-ACS)	0 TPA	100 TPA	100 TPA
30	Dibenzoyl Methane (DBM)	0 TPA	100 TPA	100 TPA
31	Phenyl Hydrazine	0 TPA	600 TPA	600 TPA
32	Phenyl Hydrazine Hydrochloride	0 TPA	500 TPA	500 TPA
33	4- chloro Phenyl Hydrazine	0 TPA	200 TPA	200 TPA
34	4 Hydroxy benzene sulphonomide hydrochloride (4-HBS)	0 TPA	500 TPA	500 TPA
35	3-[(S)-1-TERTBUTOXYCARBONYL- 4 -OXOPYRROLIDIN-2-YL CARBONYL] THIAZOLIDINE (OXO)	0 TPA	25 TPA	25 TPA
36	Teneligliptin Hydrobromide Hydrate (Teneligliptin)	0 TPA	40 TPA	40 TPA
37	PPZ-1-(3-Methyl-1-phenyl-1-pyrazol-5-yl) piperazine.	0 TPA	25 TPA	25 TPA
38	Solifenacin Base	0 TPA	3 TPA	3 TPA
39	Solifenacin Succinate	0 TPA	3 TPA	3 TPA
40	Sertaconozole	0 TPA	20 TPA	20 TPA
41	Nizatidine	0 TPA	25 TPA	25 TPA
42	(R)-9-[2(phosphonomethoxy) propyl] Adenine (PMPA)	75 TPA	0 TPA	75 TPA
43	Flurobenzene , its Derivatives and other fluorinated compounds	0 TPA	1000 TPA	1000 TPA
44	Phoponates and its Derivatives	0 TPA	500 TPA	500 TPA
45	Phosphates and derivatives	0 TPA	500 TPA	500 TPA
46	Phosphites and its derivatives	0 TPA	500 TPA	500 TPA
47	R&D and Pilot for Industrial Chemicals and Intermidiates	0 TPA	60 TPA	60 TPA
48	Spent Acid (By product)	1645 TPA	0 TPA	1645 TPA
49	Dil Methanol (By product)	450 TPA	0 TPA	450 TPA
50	Hydro Chloric Acid (By product)	15000 TPA	60000 TPA	75000 TPA
51	Dilute Acetic Acid (By product)	1200 TPA	0 TPA	1200 TPA
52	Methanol (By product)	600 TPA	0 TPA	600 TPA
53	Sodium Sulphite 30% (By product)	936 TPA	0 TPA	936 TPA
54	Spent Ethyl Bromide (By product)	187.5 TPA	0 TPA	187.5 TPA
55	Spent Magnecium Acetate (By product)	75 TPA	0 TPA	75 TPA
56	Spent Sodium Bromide Solution (By product)	1424.5 TPA	0 TPA	1424.5 TPA
57	Dilute Thiphosphoric Acid (By product)	11.75 TPA	0 TPA	11.75 TPA
58	Dilute Methane Sulphonic Acid (By product)	195 TPA	0 TPA	195 TPA
59	Dilute Dimethyl Formamide (By product)	56 TPA	0 TPA	56 TPA
60	Dilute Bromide Solution (By product)	140 TPA	0 TPA	140 TPA
61	Formic Acid (By product)	96 TPA	0 TPA	96 TPA

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	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) :	1330 cmd
	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	66	20	86	3	2	5	63	18	81
Industrial Process	123	596	719	41	141	182	82	455	537
Cooling tower & thermopack	218	232	450	215	223	438	3	9	12
Gardening	50	25	75	50	25	75	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	--
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	81 cmd
	STP technology:	Not applicable. Sewage will be treated in combined ETP (At Aeration tank)
	Capacity of STP (CMD):	--
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Minor quantity of construction debris will be generate.
	Disposal of the construction waste debris:	Construction debris will be disposed off as per norms.
Waste generation in the operation Phase:	**Dry waste:**	Used Bags: 450 Nos./A, Oil Tin: 650 Nos./A, Wooden pallets: 3000 Nos./A, Plastic/Polyvinyl Bags: 28200 Nos./A, M.S. Scrap: 150 TPA, Canteen Waste: 20 TPA. Paper Waste: 15 TPA, Boiler ash: 4200 TPA, Fly ash: 21 kg/A
	Wet waste:	--
	Hazardous waste:	Filter and Filter Material containing organic chlorine compound, ETP Sludge from Primery Treatment, Sludge generated Spray Dryer, Spent organic catalyst, Distillation Residue, Distillation residue from R&D and Pilot Plant, Flue Gas Cleaning Residue(Boiler shoot, Spent in Exchange resins, Used/ Spent oil, Discarded Containers
	Biomedical waste (If applicable):	Waste sharps: 20 kg/Month, Expired or Discarded Medicines: 10 kg/Month, Soiled Waste: 40 kg/Month
	STP Sludge (Dry sludge):	--
	Others if any:	E waste: 5 TPA

Mode of Disposal of waste:	**Dry waste:**	Non Hazardous waste will be sale to authorized dealer
	Wet waste:	--
	Hazardous waste:	hazardous waste will be disposed off as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	Biomedical waste will be disposed off as per norms.
	STP Sludge (Dry sludge):	--
	Others if any:	E waste will be disposed off to authorized dealer
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 to 6	6.5 to 9	< 6.5 to 9
2	Total Suspended solids	mg/L	400 to 500	100	< 100
3	Total Dissolved Solids	mg/L	8000 to 10000	2100	< 2100
4	Chemical Oxygen Demand	mg/L	8000 to 10000	250	< 250
5	Ammonical Nitrogen	mg/L	70 to 100	50	< 50

Amount of effluent generation (CMD):	630 cmd
Capacity of the ETP:	100 cmd
Amount of treated effluent recycled :	--
Amount of water send to the CETP:	630 cmd
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Untreated Effluent > Equalization > Neutralization > coagulation > Pri. clarifier > Aeration > Sec. clarifier > Pressure sand filter > Activated carbon filter > RO unit > RO permeate recycle > RO reject & High Load stream to MEE > MEE permeate to recycle
Disposal of the ETP sludge	To CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Filter and Filter Material containing organic chlorine compound	36.2	TPA	3	6	9	Landfill at CHWTSDF
2	ETP Sludge from Primery Treatment & Salts generated from spray dryer	35.3	TPA	200	12300	12500	Landfill at CHWTSDF
3	Spent organic catalyst	28.2	TPA	4	8	12	Incineration at CHWTSDF

4	Distillation Residue	28.1	TPA	300	600	900	Incineration at CHWTSDF
5	Distillation residue from R&D and Pilot Plant	28.1	TPA	4	8	12	Incineration at CHWTSDF
6	Flue Gas Cleaning Residue(Boiler shoot	35.1	TPA	6	12	18	Incineration at CHWTSDF
7	Spent in Exchange resins	35.2	TPA	0.12	0.24	0.36	Disposal at CHWTSDF
8	Used/ Spent oil	5.1	KLPA	2	4	6	Sale to Authorised Agency
9	Discarded Containers	33.1	Nos./A	12710	25420	38130	Sale to Authorised Agency

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 & 12 TPH Boiler (Existing)	Coal: 38 TPD	--	30	1.1	160
2	12 TPH Boiler (Proposed)	Coal: 48 TPD	--	as per CPCB norms	as per norms	160
3	12 TPH Boiler (Proposed)	Coal: 48 TPD	--	as per CPCB norms	as per norms	160
4	500 KVA DG set (Existing)	HSD: 75 kg/day	--	15	0.15	160
5	1010 KVA DG set (Proposed)	HSD: 2050 Lit/Hr	--	as per CPCB norms	as per norms	160
6	1250 KVA D.G. Set (Proposed)	HSD: 2500 Lit/Hr	--	as per CPCB norms	as per norms	160
7	1250 KVA D.G. Set (Proposed)	HSD: 2500 Lit/Hr	--	as per CPCB norms	as per norms	160
8	Spray Dryer (Existing)	Coal: 8.4 TPD	--	15	0.75	90
9	HCL Tail Gas Tower S-4	--	--	15	0.05	30 - 40
10	Acetyl Chloride Packing Scrubber S-5	--	--	10	0.05	30 - 40
11	Acetic Acid Scrubbing Stack S-6	--	--	12	0.05	30 - 40
12	PCL3 Scrubber Stack S-7	--	--	12	0.05	30 - 40
13	Acetyl Chloride Scrubber Stack S-8	--	--	12	0.05	30 - 40
14	Drum Dryer Stack S-9	--	--	25	0.45	30 - 40
15	Packing Area Stack S-10	--	--	25	0.45	30 - 40
16	Reactor (Neutralizer Stack) S-11	--	--	25	0.2	30 - 40

17	HCL Scrubber System Stack S-12	--	--	25	0.05	30 - 40
18	HCL Scrubber System Stack S-13	--	--	15	0.08	30 - 40
19	Common Vent Scrubber stack S-14	--	--	15	0.05	30 - 40
20	SO2 Scrubber System stack S-15	--	--	15	0.15	30 - 40
21	HCL Scrubbing System Stack S-16	--	--	15	0.1	30 - 40
22	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
23	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
24	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
25	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
26	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
27	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
28	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
29	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40
30	Common Vent Scrubber stack	--	--	As per statutory requirement	As per statutory requirement	30 - 40

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	46.4 TPD	96 TPD	142.4 TPD
2	HSD	4 Lit/Hr	7050 Lit/Hr	7054 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 :**	Green belt area: 25106 sq.m
	No of trees to be cut :	--
	Number of trees to be planted :	--
	List of proposed native trees :	--
	Timeline for completion of plantation :	--

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	--	--	--	--
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 :**	From MSEDCL
	During Construction Phase: (Demand Load)	1600 KVA
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	4800 KVA
	During Operation phase (Demand load):	4800 KVA
	Transformer:	6 MVA
	DG set as Power back-up during operation phase:	500 KVA, 1010 KVA & 2 nos. 1250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

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49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution	Bag house, Cyclone separator, Wet scrubber	Bag house, Cyclone separator
Water pollution	ETP, RO, Spray dryer	--
Noise pollution	Acoustic enclosure, Silencers, PPE	Acoustic enclosure, Silencers, PPE
Hazardous waste	Disposal to CHWTSDF, Authorized recycler	Disposal to CHWTSDF, Authorized recycler

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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	From Utilities, Process and DG set	100	10
2	Environmental Monitoring	Regular Monitoring	0	5
3	Water Pollution Control	ETP,RO, Spray dryer	1000	100
4	Hazardous Waste and Solid waste management	Storage and Disposal of Hazardous waste and Non hazardous waste	25	2.5
5	Green Belt Development	Development and Maintanance of Green Belt	25	2.5
6	Green Initiative	Installation and Maintanance of Windmill	50	5
7	Occupational Health and Safety	PPE, Safety Tranning	25	2.5
8	Social Welfare and Upliftment	ESC Budget	25	2.5

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

Methanol	Existing & Proposed	Within plot	69 KL, 24 KL	69 KL, 24 KL	refer PFR	from nearby source	By road
Ethanol	Existing & Proposed	Within plot	2 nos. of 16 KL	2 nos. of 16 KL	refer PFR	from nearby source	By road
Toluene	Existing & Proposed	Within plot	2 nos. of 15 KL	2 nos. of 15 KL	refer PFR	from nearby source	By road
Acetic Acid	Existing & Proposed	Within plot	100 KL, 50 KL	100 KL, 50 KL	refer PFR	from nearby source	By road
Caustic Lye	Existing & Proposed	Within plot	2 nos. of 35 KL	2 nos. of 35 KL	refer PFR	from nearby source	By road
Ethyl Acetate Storage Tank	Existing & Proposed	Within plot	20 KL, 30 Kl	20 KL, 30 Kl	refer PFR	from nearby source	By road
Phosphorus Trichloride	Existing & Proposed	Within plot	2 nos. of 80 KL	2 nos. of 80 KL	refer PFR	from nearby source	By road
Codex 661	Existing & Proposed	Within plot	120 KL, 80 KL	120 KL, 80 KL	refer PFR	from nearby source	By road
Codex 8503/ Codex 4503/ Codex 5323	Existing & Proposed	Within plot	40 KL, 160 KL	40 KL, 160 KL	refer PFR	from nearby source	By road
Formaldehyde	Existing & Proposed	Within plot	2 nos. of 30 KL	2 nos. of 30 KL	refer PFR	from nearby source	By road
Phenol	Existing	Within plot	78 KL	78 KL	refer PFR	from nearby source	By road
HCl	Existing & Proposed	Within plot	210 Kl, 190 KL	210 KL, 190 KL	refer PFR	from nearby source	By road
Biocel Solution	Existing	Within plot	30 KL	30 KL	refer PFR	from nearby source	By road
Biocel 90	Existing & Proposed	Within plot	2 nos. of 10 KL	2 nos. of 10 KL	refer PFR	from nearby source	By road
Aniline	Proposed	Within plot	30 KL	30 KL	refer PFR	from nearby source	By road
Methane Sulphonic Acid	Proposed	Within plot	30 KL	30 KL	refer PFR	from 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:	790 sq.m
	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):	as per MIDC DC rule
	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 Synthetic organic chemical manufacturing facility
	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	03-03-2018

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 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

DECISION OF SEAC

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

PP has obtained earlier EC vide No. SEAC-2010/CR-516/TC-2 dated 06.07.2011; PP to submit certified compliance of the EC from Regional Offcie of MoEF&CC, Nagpur.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles and memorandum of association.
2) No tree cutting shall be allowed for proposed development; PP to submit revised lay out plan showing entry/exit gates, internal roads with minimum width of six meters and turning radius of nine meters, location of pollution control equipment, parking areas, 33% green belt within the premises, solid and hazardous waste storage areas, rain water harvesting etc.
3) 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.
4) 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.
5) PP to submit elevation drawings of the proposed manufacturing building. PP also to submit stability certificate of existing structures.
6) PP to submit details of the waste material management plan in the EIA report.
7) PP to include all stacks height calculations in the EIA report.
8) PP to submit design details of ETP to achieve Zero Liquid Discharge.
9) PP to carry out HAZOP and Risk Assessment study and submit a Disaster Management Plan.
10) 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.
11) PP to include chemical handling protocol in the EIA report.
12) PP to submit details of the use of non conventional energy in the EIA report.
13) PP to provide lightening arrestor.

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.

Subject: Environment Clearance for Environment Clearance for Proposed Production of MS Billet Capacity 750 MTD

Is a Violation Case: No

1.Name of Project	Bhagyalaxmi Metals Pvt.Ltd. (Formerly known as Bhagyalaxmi Rolling Mill Ltd)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nitin Kabra
4.Name of Consultant	Mantras Green Resources Limited, Nashik.
5.Type of project	MS Billets and TMT Bars
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed MS Billets and TMT Bars
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Existing rolling mill does not attract provision of Prior Environmental Clearance.
8.Location of the project	Gut No. 30, Adjacent to MIDC (Daregaon Grampanchayat)
9.Taluka	Jalna
10.Village	Daregaon
Correspondence Name:	Mr. Nitin Kabra
Room Number:	Gut No. 30
Floor:	NA
Building Name:	NA
Road/Street Name:	Daregaon
Locality:	Adjacent to Jalna MIDC Daregaon Grampanchayat
City:	Jalna
11.Area of the project	Daregaon Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Daregaon Grampanchayat NOC
	Approved Built-up Area: 4701
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC
15.Total Plot Area (sq. m.)	36,400 m2 (land earmarked for proposed plant is 21100.17 SQM)
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.): 4701
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	1610000000

22.Number of buildings & its configuration

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

1	Industrial Shed	01	20 meters

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)	20 metre
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius will be 06 m.
29.Existing structure (s) if any	Existing rolling mill shed and office. Expansion will be carried out in proposed open area by installing new furnace two nos of 30 MT furnaces will be installed.(30X13=390 and 30X13=390)
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	MS Billets	0	22500	22500
2	TMT bars	25000	0	25000

32.Total Water Requirement

Dry season:	**Source of water**	Own captive water Reservoir
	Fresh water (CMD):	110 CMD (Is required for daily Top up)
	Recycled water - Flushing (CMD):	127 CMD from industrial process
	Recycled water - Gardening (CMD):	35 CMD (15.5 Treated water from STP will be used for gardening)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	256.5 CMD
	Fire fighting - Underground water tank(CMD):	150 CMD
	Fire fighting - Overhead water tank(CMD):	Over head tank is proposed
	Excess treated water	Not applicable

Wet season:	**Source of water**	Own captive water Reservoir
	Fresh water (CMD):	110 CMD (Is required for daily Top up)
	Recycled water - Flushing (CMD):	127 CMD from industrial process
	Recycled water - Gardening (CMD):	35 CMD (15.5 Treated water from STP will be used for gardening)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	256.5 CMD
	Fire fighting - Underground water tank(CMD):	150 CMD
	Fire fighting - Overhead water tank(CMD):	Over head tank is proposed
	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	12.20	7.24	19.445	2.5	1.4	3.9	9.7	5.8	15.5
Industrial Process	0	127	127	0	50	50	0	77	77
Cooling tower & thermopack	57	0	57	22	0	22	35	0	35
Gardening	25	10	35	25	10	35	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon 10-15 M below ground level. Post monsoon 5-10 M below ground level.
	Size and no of RWH tank(s) and Quantity:	Proposed Rainwater harvesting will be Two nos. (Number of Tank will be increased if require)
	Location of the RWH tank(s):	Within the premises
	Quantity of recharge pits:	10 Nos
	Size of recharge pits :	Rainwater harvesting plan incorporated in EIA Report
	Budgetary allocation (Capital cost) :	28.00 lakhs
	Budgetary allocation (O & M cost) :	6.00 lakhs.
	Details of UGT tanks if any :	Under ground water is there for fire fighting as per norms. Additional tank if required will be constructed

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain system will be constructed around the plant.
	Quantity of storm water:	Incorporated in EIA report
	Size of SWD:	Incorporated in EIA report
Sewage and Waste water	**Sewage generation in KLD:**	15.5 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 no & 20 KLD capacity
	Location & area of the STP:	In the premises
	Budgetary allocation (Capital cost):	12.50 Lakhs
	Budgetary allocation (O & M cost):	4.40 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	Will be utilized in making of internal road.
Waste generation in the operation Phase:	**Dry waste:**	Slag, process dust: 30 MTD. Disposal: Slag and process dust will be sale to bricks manufacturers.
	Wet waste:	No
	Hazardous waste:	No
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	0.2 MTA
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Slag will be crushed in slag crusher and iron will be recovered by magnet for reuse in induction furnace. Remaining slag is used for brick making, concrete mixing and disposed off to local brick making units; slag was used on trial basis for concreting of roads inside the factory.
	Wet waste:	No
	Hazardous waste:	No any hazardous waste will be generated in this unit
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	It will used as manure for gardening plantation.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Within the plant area.
	Area for the storage of waste & other material:	500 Sq.mtr
	Area for machinery:	100 sqm area for slag crusher.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	75.00 Lakhs
	O & M cost:	15. Lakhs

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):	112
Capacity of the ETP:	150
Amount of treated effluent recycled :	112
Amount of water send to the CETP:	No
Membership of CETP (if require):	No
Note on ETP technology to be used	Settling tank will be constructed for treatment of waste water.
Disposal of the ETP sludge	For brick manufacturing.

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	Induction Furnace and Rolling Mill	Electricity	1	35	1.6	50 degree centigrade

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity	4.5 MW	20 MW	24.5 MW

41.Source of Fuel	MSEDCL
42.Mode of Transportation of fuel to site	Transmission line

43.Green Belt Development	**Total RG area :**	33% of the open area will be provided for green belt development
	No of trees to be cut :	00
	Number of trees to be planted :	Existing plantation is upto 150 nos and 1500 numbers of trees will be palnted in green belt.
	List of proposed native trees :	Neem, Babul, Bakul, Mango,Aapta, Ber.
	Timeline for completion of plantation :	Two years

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	Azadirachata Indica	Neem	500	Shady tree ,medicinal use
2	Acacia nilotica	Babul	200	Shady tree with yellow flowers
3	Delonix Regia	Gulmohar	200	Shady tree ,small white fragrant flowers
4	Ficus Religiosa	Peepal	100	Semi- diciduous
5	Saraca Asoca	Ashoka	500	Semi- diciduous
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	American aloe	2*2	4
2	Black physicnut	3*3	9
3	Garden croton	1*1	1
4	China rose	2*2	4

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	1 MW
	DG set as Power back-up during construction phase	500 KVA 2 nos
	During Operation phase (Connected load):	24.5 MW
	During Operation phase (Demand load):	24.5 MW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	500 KVA 2 nos
	Fuel used:	Electricity
	Details of high tension line passing through the plot if any:	NA

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
Rolling Mill	Scrubber	Ventury scrubber followed by chimney

Induction furnace	NA	Rotating Hood Fume Extraction System followed by Wet Scrubber
Noise pollution due to presence of centrifugal pumps, motors, DG sets, EOT Crane	Green Belt (33 %)	There will be provision of acoustic enclosure for DG sets & Green Belt (33 %)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	00
	O & M cost:	00

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 Pollution	Particulate Matter	1.00

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 Equipment	Pollution Control Equipment for Air Pollution Control Measures	80.00	6.20
2	Water Pollution Control Treatment	Water Treatment Plants STP will be provided	12.50	04.40
3	Solid Waste Management	Solid Waste Disposal and Management in the form of Manure and Brick Manufacturing	75.00	15.00
4	Occupational Health Safety Management	Safety Measures in respect to health facilities will be provided to workers Safety workers will be monitored regularly and measures will be taken for the same	10.00	3.00
5	Environmental cell & monitoring	Management of environment by environment management department	23.50	6.50
6	Development of Green Belt	Plantation of various native and other species developing the green belt area in 33% of total area	6.00	1.00

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
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The said Plot is adjacent to MIDC area.The width of front of MIDC Road is 20 mtr.
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	50 sq. mt
	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:	40-50 trucks will be operated after commission of proposed unit for transportation of raw material and finished product.
	Width of all Internal roads (m):	The said Plot is adjacent to MIDC area.The width of front of MIDC Road is 20 mtr.
	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	Category 'B1' under Schedule 3(a)
	Court cases pending if any	No

	Other Relevant Informations	ToR Granted in 77th Meeting of SEAC-I, Held on 15th -16th April 2014 at Maharashtra Economic Development Council, Mumbai. Public Hearing conducted successfully on 11/5/2017 at 11 a.m at the Proposed Factory Site, Dist: Jalna Maharashtra.
	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 obtained ToR from SEAC in its 77th meeting held on 15-16 April, 2014.

Public Hearing was conducted on 11.05.2017.

Now PP submitted EIA /EMP report and Public Hearing Report for appraisal.

DECISION OF SEAC

After deliberations with the PP and their accredited consultant SEAC decided to defer the proposal till PP submits compliance of following points.

Specific Conditions by SEAC:

1) PP to submit remarks from the town planning department whether industrial development is permissible on proposed plot as per Regional Plan. PP also to submit copy of NA permission for industrial use to be obtained from District Collector.
2) PP to submit revised lay out plan showing entry/exit gates, internal roads with minimum six meter width, turning radius of nine meters, location of waste storage, location of pollution control equipment, 33% green belt etc.
3) PP to submit revised water balance calculations.
4) PP to explore the possibility to use micro channeling to cool the molten mass to save and reuse energy.
5) PP to include interpretation of baseline data and conclusion on the air, water, soil, noise monitoring results along with reasoning and mitigation measures in the EIA report.
6) PP to submit details on the reuse/disposal of the dust coming out of the ventuary scrubber.
7) PP to submit point wise compliance with time bound action plan to redress the issues raised during Public Hearing.
8) PP to submit socio economic survey report.
9) PP to include all above information in the EIA report and submit revised EIA report.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

149th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 149th Day - 5 **Meeting Date** April 6, 2018

Subject: Environment Clearance for Mining of Mineral (Open cast)

Is a Violation Case: No

1.Name of Project	Satuk Manganese Mine
2.Type of institution	Government
3.Name of Project Proponent	M/s MOIL Limited
4.Name of Consultant	Wolkem India Limited ,Udaipur ,Rajasthan
5.Type of project	Mining Project
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	Not applicable
8.Location of the project	Topo sheet No 55 O/7
9.Taluka	Parseoni
10.Village	Satuk
Correspondence Name:	Mr. Dipanker Shome
Room Number:	NA
Floor:	NA
Building Name:	MOIL Bhawan
Road/Street Name:	1-A ,Katol Road,
Locality:	Katol Road
City:	Nagpur
11.Area of the project	Not applicable
12.IOD/IOA/Concession/Plan Approval Number	Approved Mining plan with PMCP
	IOD/IOA/Concession/Plan Approval Number: Mining Plan and Progressive Mining Closure Plan under Rule 16 (1) of MCR, 2016 and Rule 23 B of MCDR 1988 in respect of an area over 5.62 ha in village Satuk is approved by Regional Controller, Nagpur Region, IBM vide letter no. NGP/MN/MPLN-1172/NGP-2016 on dated 9.08.2016.
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	The LOI for Mining Lease has been granted to MOIL over an area of 5.62 ha in village Satuk, Tah.: Parseoni of Dist: Nagpur of Maharashtra State by Government of Maharashtra vide letter number MMN-0216/L. No. 21/Industry-9, Mumbai dated 06.04.2016.
15.Total Plot Area (sq. m.)	5.62 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.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	Manganese Ore	0	642 (7700 TPA)	642 (7700 TPA)

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5
	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):	5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5
	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**
Fresh water requirement	0	5	5	0	0	0	0	0	0
Domestic	0	2	2	0	0	0	0	0	0
Gardening	0	1	1	0	0	0	0	0	0
Domestic									

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Static water level during winter is about 6 mts from ground surface ans about 8 mts during summer .
	Size and no of RWH tank(s) and Quantity:	Proposed
	Location of the RWH tank(s):	Proposed
	Quantity of recharge pits:	Proposed
	Size of recharge pits :	1.29 Ha area will be left for rain water storage
	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:**	Not applicable
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	Not applicable
	STP technology:	Not applicable
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	3553 MT Mineral reject as Over burden
	Disposal of the construction waste debris:	Not applicable
Waste generation in the operation Phase:	**Dry waste:**	Not applicable
	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:**	Over burden will be dumped in the mining lease area
	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	HSD	0	As per requirement	As per requirement
41.Source of Fuel		Provide by Authorized person		
42.Mode of Transportation of fuel to site		Trucks		

43.Green Belt Development	**Total RG area :**	3.785 Ha will be planted
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	3785
	List of proposed native trees :	Neem, Shisham, Amaltas ,Mango ,Karanj,Pipal ,Sagwan ,Bel ,Siras
	Timeline for completion of plantation :	5 years

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	Azadirachta indica	Neem	500	Pollution tolerant & Medicinal
2	Dalbargia Sisso	Shisham	300	Pollution tolerant & Medicinal
3	Cassia fistula	Amaltas	400	Pollution tolerant & Medicinal
4	Mangifera Indica	Mango	600	Pollution tolerant & Medicinal
5	Pongamia Pinnata	Karanj	400	Pollution tolerant
6	Ficus religious	Pipal	400	Pollution tolerant & Medicinal
7	Tectona grandis	Sagwan	300	Pollution tolerant & Medicinal
8	Aegel marmelos	Bel	400	Pollution tolerant & Medicinal
9	Albizzia Sp.	Siras	400	Pollution tolerant
10				

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	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	M.S.E.B. 11 KV Line is provided up to village Satuk and near manganese deposit of Satuk area.
	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:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

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
Mining ,Loading and unloading .transportation of Minerals	NIL	All Environmental mitigation measures will be done as per MPCB.

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	Not applicable	Not applicable	Not applicable

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Pollution Control	Garland Drain, Water sprinkler, retaining walls)	4.0	1.0

2	Pollution Monitoring	Air, soil, Water, Noise	5.0	1.0
3	Occupational Health	Medical check	10.0	2.0
4	Green Belt	Plantation	5.0	1.0

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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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:	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	Category B-1, Project activity -1(a)

	Court cases pending if any	NO
	Other Relevant Informations	The proposed Manganese mining area of 5.62 Hectare (ha) in Village: Satuk, Tahsil: Parseoni, Distt; Nagpur- Maharashtra State has been granted lease to M/s. MOIL Limited., for a period of 50 years approved by Regional Controller, Nagpur Region, IBM vide letter no. NGP/MN/MPLN-1172/NGP-2016 on dated 9.08.2016. The proposed manganese ore production is 7700 Tonnes (TPA) ROM. The mining is Opencast mining. The region has good deposits of Manganese and has major demand in Steel Industry. The location advantage of the mine makes it possible to dispatch the Manganese in all the directions giving easy accessibility to the market.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

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 of TOR under category 1(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

PP submitted their application for the grant of TOR under category 1(c)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

Public hearing is applicable.

Specific Conditions by SEAC:

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 lay out plan showing entry/exit gates, internal roads with minimum width of six meters and turning radius of nine meters,location of storage of over burden and top soil, location of mining pits, approach road to the site etc. PP to obtain permission from competent authority to draw ground water.
3) PP to submit copy of approved mining plan. PP also to submit approved mine closure plan from competent authority
4) PP submit record of rights document for proposed mining area.
5) PP to include safety measures proposed to prevent any unforeseen accident.
6) PP to obtain permission from competent authority for removal of trees if necessary. PP to use transplantation technique instead of cutting the trees.
7) PP to submit contour plan of the mining area and surrounding area.
8) PP to submit Socio Economic survey report and include its recommendations in the EIA reprot.
9) PP to plan CSR in consultation with the District Authority along with implementation schedule. PP to maintain separate account for CSR funds.

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.

149th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 149th Day - 5 **Meeting Date** April 6, 2018

Subject: Environment Clearance for Environmental Clearance for the Proposed expansion & addition of Aroma Chemical manufacturing facility at Plot No. A- 7, MIDC Area, Mahad, Dist. Raigad by Privi Organics India Ltd (Unit I)

Is a Violation Case: No

1.Name of Project	Environmental Clearance for the Proposed expansion & addition of Aroma Chemical manufacturing facility at Plot No. A- 7, MIDC Area, Mahad, Dist. Raigad by Privi Organics India Ltd (Unit I)
2.Type of institution	Private
3.Name of Project Proponent	Privi Organics India Limited (Unit I)
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
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment clearance for existing facility is obtained. EC letter No. SEAC-2013/CR-242/TC-2 dated 08.10.2015
8.Location of the project	Plot No A – 7, 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.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	MIDC Mahad
	IOD/IOA/Concession/Plan Approval Number: MIDC plot plan approval
	Approved Built-up Area: 3842.20
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
15.Total Plot Area (sq. m.)	6525
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.): 3874.63
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	50000000

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)	Min 6 m
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	Existing structures like Production plant, Utilities, storage tanks, material sheds, ETP, Admin bldg., etc. is already constructed.
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	Citronellol (COL)	10	8	18
2	Styrallyl Acetate	0.5	0	0.5
3	Geranyl nitrile	0.5	-0.5	0
4	Citronellol Acetate (Citronellyl acetate)	0.4	1.6	2
5	Geranyl acetate/Neryl Acetate	0.5	1.5	2
6	Dihydro Myrcenol (DHMOL)	1	0	1
7	Alpha Camphenelic Aldehyde Derivatives	1	0	1
8	Amber Fleur and its derivatives , Amber gamma ,Cedarketol	400	70	470
9	Rose Oxide	0.5	0	0.5
10	Indian Sandal Fleur	1	0	1
11	Indian Sandal Core/Indian sandal fleur	9	16	25
12	Indian Sandal Touch	0.5	0	0.5

13	Ionones [Gamma Methyl Ionone (GMI) (Violetone Coeur), Normal Methyl Ionone (NMI), Alpha Ionone (AI), Beta Ionone (BI) (Beta Ionone Technical /PG)	7	0	7
14	Geraniol /Nerol Extra Pure	0.5	0	0.5
15	Para Tertiary Butyl Cyclohexyl acetate (PTBCHA)	0.5	0	0.5
16	Amber gamma	50	-50	0
17	Myrcene 90 /Myrcene Supra	50	0	50
18	L-Limonene	25	0	25
19	Citral Extra Pure	30	0	30
20	Aldehyde C11	12	0	12
21	Recovered Acetic Acid (By product)	0	1.18	1.18
22	Dilute Acetic Acid (35-40%) (By product)	0	0.72	0.72
23	Column Tops (By product)	217.86	21.35	240.86
24	Column Bottom Mass (By product)	128.65	-15.63	115.15
25	Dilute Sulpuric Acid (30-40 %) (By product)	0	1.99	1.99
26	Recovered Toluene (By product)	171.66	-31.59	140.07
27	Zinc Bromide Solution (By product)	0	0.17	0.17
28	Aqueous Fluoroboric acid (Fluoroboric acid) (By product)	132.18	-23.61	108.57
29	Phosphoric Acid layer (By product)	104.30	-22.52	81.78
30	Sodium Phosphate Solution (By product)	0	176.72	176.72
31	Sodium Acetate Solution (By product)	0	33.1	33.1
32	Catalyst A (By product)	0	2.74	2.74
33	Recovered Cyclohexane (By product)	0	5.73	5.73
34	Recovered Methanol (By product)	0	26.82	26.82
35	Sodium Borate Solution (By product)	0	11.93	11.93
36	Recovered MEK & Methanol (By product)	0	0.89	0.89

37	Potassium Acetate Solution (By product)	0	4.3	4.3
38	Recovered Copper Chromite (By product)	0	0.02	0.02
39	Recovered 2-Butanol (By product)	0	0.17	0.17
40	Mix of MEK+Methanol (By product)	0	8.35	8.35
41	Dilute Phosphoric Acid (By product)	0	11.27	11.27
42	Recovered Barium Hydroxide (By product)	0	2.46	2.46
43	Reaction Bottom Mass (By product)	4	0.02	4.02
44	Rose Dial (By product)	2.2	-2.2	0
45	Dilute Sulpuric Acid (By product)	475	-275	200
46	Tops & Residues (By product)	20	0	20

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	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) :	362
	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	12.5	0.5	13	2.5	0.5	3	10	0	10
Industrial Process	88.82	7.18	96	5.58	2.42	8	83.24	4.76	88
Cooling tower & thermopack	219.65	29.35	249	190.65	33.35	224	29	-4	25
Gardening	5	0	5	5	0	5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	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:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	10 cmd
	STP technology:	--
	Capacity of STP (CMD):	Sewage sent to Unit III for treatment.
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--

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: 650 kg/A, MS scrap: 15.5 TPM, Other waste (wood, Paper , glass, decontaminated plastic etc): 5 TPM, Boiler ash: 4.5 T/Day, Canteen waste: 15 Kg/Day
	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):	--
	Others if any:	E waste: 30 Kg/M, Lead acid batteries: 5 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):	123 cmd
Capacity of the ETP:	Not applicable. Effluent sent to Unit III for treatment.
Amount of treated effluent recycled :	Not applicable.
Amount of water send to the CETP:	Effluent sent to Unit III for treatment
Membership of CETP (if require):	Not applicable.
Note on ETP technology to be used	Oil & Grease trap > Equalization tank > Effluent sent to Unit III for treatment
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	TPM	0.6	0.4	1	Sale to authorized re-processor
2	Waste contaminated with oil (cotton/gaskets/ insulation material)	5.2	Kg/M	50	50	100	CHWTSDF
3	Residues & Hydrocarbon	20.1	TPM	0.72	0.2	0.92	Sale to authorized party/ CHWTSDF
4	Discarded containers/barrels/ linerss/Carbouys/IBCS	33.3	Nos./M	260	40	300	Sale to authorized party after decontamination
5	Chemical sludge form waste water treatment	34.3	TPM	10	0	10	CHWTSDF
6	Sludge from concentration technique	36.1	TPM	0.9	1.1	2	CHWTSDF or Sale to authorized party
7	Process Sludge	20.4	TPM	0	7	7	CHWTSDF or Sale to authorized party

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	3 TPH Boiler	Furnace Oil: 4.4 KLPD / Terpene Biofuel: 1.5 KLPD	1	32 m	0.5	150
2	380 KVA DG set	HSD: 100 Lit/Hr	2	4 m	0.15	150
3	380 KVA DG set	HSD: 100 Lit/Hr	3	4 m	0.15	150

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil	4.4 KLPD	0	4.4 KLPD
2	Terpene Biofuel	1.5 KLPD	0	1.5 KLPD
3	HSD	200 Lit/Hr	0	200 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 :**	As per MIDC Norms
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	Not applicable
	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	--	--	--	--
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)	900 KVA
	DG set as Power back-up during construction phase	2 nos. of 380 KVA
	During Operation phase (Connected load):	900 KVA
	During Operation phase (Demand load):	900 KVA
	Transformer:	---
	DG set as Power back-up during operation phase:	2 nos. of 380 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	---	---

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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	2	3
2	Environmental Monitoring	Regaular Monitoring	4	3
3	Water pollution control	ETP	5	46
4	Hazardous waste & Solid Waste Management	Storage & Disposal	4	12
5	Green Belt Development	Development & Maintenance green belt	2	1
6	Occuptional , Helath & Safety	PPE, Safety training	15	10
7	Social Welfare & Upliftment	ESC Budget	5	0

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
Myrcene	---	3 no. of 50 KL	150 KL	150 KL	--	From Nearby source	By Road
Citral	---	1 no. of 30 KL	30 KL	30 KL	---	From Nearby source	By Road
MPO	---	1 no. of 30 KL, 1 no. of 30 KL	50 KL	50 KL	---	From Nearby source	By Road
Caustic lye	---	1 no. of 10 & 1 no. of 8 KL	18 KL	18 KL	---	From Nearby source	By Road
Methanol	---	2 no. of 8 KL	16 KL	16 KL	---	From Nearby source	By Road
Toluene	---	2 no. of 8 KL	16 KL	16 KL	---	From Nearby source	By Road
Phosphoric acid	---	1 no. of 13.5 KL	13.5 KL	13.5 KL	---	From Nearby source	By Road
Diesel	---	1 no. of 8 KL	8 KL	8 KL	---	From Nearby source	By Road
Furnace Oil	---	1 no. of 8 KL	8 KL	8 KL	---	From Nearby source	By Road
AF mains tank	---	3 no. of 30 KL, 1 no. of 100 KL, 2 no. of 25 KL, 2 no. of 50 KL	340 KL	340 KL	---	From Nearby source	By Road

PCM Crude tank	---	1 no. of 30 KL, 1 no. of 20 KL	50 KL	50 KL	---	From Nearby source	By Road
PCM Top tank	---	1 no. of 10 KL, 1 no. of 20, 1 no. of 50 KL, 1 no. of 20 KL	100 KL	100 KL	---	From Nearby source	By Road
PCM MRD tank	---	1 no. of 10 KL, 1 no. of 4 KL, 1 no. of 6 KL	20 KL	20 KL	---	From Nearby source	By Road
PCM HB	---	1 no. of 6 KL, 1 no. of 4 KL, 1 no. of 6 KL	16 KL	16 KL	---	From Nearby source	By Road
PCM mains	---	1 no. of 10 KL, 1 no. of 10 KL	20 KL	20 KL	---	From Nearby source	By Road
Amber fleur crude	---	1 no. of 30 KL, 1 no. of 20 KL, 1 no. of 8 KL, 1 no. of 30 KL	88 KL	88 KL	---	From Nearby source	By Road
Amber fleur Top tank	---	2 no. of 20 KL,	40 KL	40 KL	---	From Nearby source	By Road
Amber fleur MRD tank	--	3 no. of 20 KL, 1 no. of 20 KL	80 KL	80 KL	---	From Nearby source	By Road
Amber fleur HB	---	2 no. of 8 KL, 1 no. of 20 KL, 1 no. of 15 KL	51 KL	51 KL	---	Nearby source	By Road
Amber fleur LF	---	3 no. of 4 KL, 2 no. of 20 KL	52 KL	52 KL	---	Nearby source	By Road
Recover MPO	---	1 no. of 20 KL	20 KL	20 KL	---	Nearby source	By Road
Flouroboric acid	---	2 no. of 15 KL, 1 no. of 10 KL, 1 no. of 20 KL	60 KL	60 KL	---	Nearby source	By Road
Palca crude	---	1 no. of 4 KL, 1 no. of 6 KL	10 KL	10 KL	---	Nearby source	By Road
Spent Phosphoric	---	1 no. of 20 KL	20 KL	20 KL	---	Nearby source	By Road
ISC crude	---	1 no. of 8 KL, 1 no. of 8 KL	16 KL	16 KL	---	Nearby source	By Road
ISC REC. Methanol	---	1 no. of 15 KL, 1 no. of 15 KL	30 KL	30 KL	---	Nearby source	By Road
Recovered Toluene	---	1 no. of 15 KL	15 KL	15 KL	---	Nearby source	By Road
Sodium phosphate	---	1 no. of 20 KL, 1 no. of 30 KL	50 KL	50 KL	---	Nearby source	By Road
Sodium acetate	---	1 no. of 15 KL,	15 KL	15 KL	---	Nearby source	By Road
Palca tops	---	1 no. of 20 KL	20 KL	20 KL	---	Nearby source	By Road
Palca MRD	---	1 no. of 10 KL	10 KL	10 KL	---	Nearby source	By Road
Palca mains	---	1 no. of 20 KL	20 KL	20 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:	155.80 sq.m
	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	07-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	No ETP on site
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	No adequate space for movement of emergency vehicles.
Landscape Plan	No space to provide required green belt.
Disaster management system and risk assessment	No adequate space for movement of emergency vehicles.
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 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

DECISION OF SEAC

During deliberations with the PP and their accredited consultant, it is revealed that the area of the plot for proposed expansion is very congested and there is no adequate space for the movement of an emergency vehicle, pollution control equipment, development of requisite green belt etc. The issues discussed at length with the PP and his team and PP agreed to the concerns shown by SEAC with respect to the proposed hazardous activity on site and safety of people.

In view of above space constraint on the site to carry out expansion in safe and environment friendly manner SEAC decided to reject the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal for rejection subject to above reasons.

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

Is a Violation Case: No

1.Name of Project	Environmental Clearance for the Proposed expansion & addition of Aroma Chemical manufacturing facility at Plot No. A- 3, MIDC Mahad, Mahad, Dist. Raigad by Privi Organics India Ltd (Unit III)
2.Type of institution	Private
3.Name of Project Proponent	Privi Organics India Limited (Unit III)
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
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.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	MIDC Mahad
	IOD/IOA/Concession/Plan Approval Number: MIDC plot plan approval
	Approved Built-up Area: 5170.03
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
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.): 6199.06
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	370000000

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
2	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)	Min 6 m
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	Existing structures like Production plant, Utilities, storage tanks, material sheds, ETP, Admin bldg., etc. is already constructed.
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	Terpineol & Its derivatives like Pine oil varieties and Terpin-4-ol (4-Terpineol)	200	475	675
2	A-Terpinyl acetate & Its derivatives	100	-40	60
3	Dipentene Varieties, Terpinolene Varieties from 20 to 99%/Cineols such as 1,4 Cineol, 1,8 Cineol,Eucalyptol, Gamma Terpinene, Limonene, Mixed Terpenes etc	80	820	900
4	Prionyl (Privi moss)	30	0	30
5	Terpene-Phenol based resin like TPR-A,TPR-B,TPR-C,TPR-M,TPR-MS etc	150	-140	10
6	Terpene (Poly Terpene) based resin like PTR-A,PTR-B,PTR-C,PTR-M,PTR-MS etc	150	-140	10
7	p-Cymene	100	-60	40
8	Camphene	250	-50	200
9	Isobornyl acetate (IBA)	100	-25	75
10	Electricity Generation, MW	0	3 MW	3 MW

11	Ammonium Sulphate solution/ Sodium Sulphate Solution (By product)	460	168.43	628.43
12	Recovered Toluene (By product)	140	287.14	427.14
13	Column Tops (By product)	242.6	168.40	411.0
14	Column Bottom Mass (By product)	113.2	39.48	152.68
15	Dipentenes (By product)	110	232.9	342.9
16	Dilute Phosphoric Acid (By product)	0	726.3	726.3
17	Sodium Phosphate (By product)	0	690.53	690.53
18	Sodium Phosphate Solution (By product)	0	129.6	129.6
19	Recovered Ethyl Acetate (By product)	0	1071.9	1071.90
20	Recovered Ethylene Diamine (By product)	0	658.8	658.8
21	Recovered Acetic Acid (By product)	0	28.32	28.32
22	Dilute Acetic Acid solution (23-30 %) (By product)	368	-304.79	63.21
23	Sodium Acetate (By product)	210.5	-113.50	97
24	Mix Alcohols like Fenchyl alcohol,Borneols etc (By product)	7.5	82.5	90
25	Recovered Catalyst (By product)	10.2	-2.06	8.14
26	Sodium Oxalate (By product)	0	19.23	19.23
27	Recovered MEK (By product)	0	200.34	200.34
28	Methyl Pentenone (By product)	0	21.93	21.93
29	Recovered Methanol (By product)	153	12.93	165.93
30	Recovered EDC/ Cyclohexane (By product)	471	-362.55	108.45
31	Dione Residue (By product)	0	8.88	8.88
32	Aqueous DMF Solution (By product)	0	374.01	374.01
33	Recovered Cyclohexane (By product)	24	109.83	133.83
34	Charcoal Recovered (By product)	0	0.9	0.9
35	Aqueous Methanol (15-42 %) (By product)	294	73.8	367.8
36	Prionyl residue (By product)	0	6	6
37	Aqueous Fluoroboric Acid (Fluoroboric Acid) Solution (By product)	51	-49.03	1.97
38	Recovered Xylene (By product)	171	-159.49	11.51
39	Aqueous Aluminium Chloride Solution/Aluminium choloride Hexahydarte (By product)	492	-489.37	2.63
40	Recovered Indion 140 (By product)	21	-12.07	8.93
41	Spent Aqueous Triethylamine Hydrochloride (29-33%) (By product)	560	-560	0
42	Recovered Triethanolamine (By product)	195	-195	0
43	Spent Sodium sulphate & Methanol Solution (By product)	405	-405	0
44	Recovered MDC (By product)	186	-186	0
45	Spent DMH Solution (DMH 8-10%) (By product)	93	-93	0

46	Recovered Camphene (By product)	35	-35	0
47	Recovered Acetone (By product)	320	4.68	324.68

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	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) :	1092
	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	40	0	40	20	0	20	20	0	20
Industrial Process	154.19	8.81	163	43.89	-28.89	15	110.3	37.7	148

Cooling tower & thermopack	416	453	869	402.5	437.5	840	13.5	15.5	29
Gardening	11	9	20	11	9	20	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	450 KL
	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:**	--
	Quantity of storm water:	--
	Size of SWD:	169.6 m2
Sewage and Waste water	**Sewage generation in KLD:**	20 cmd
	STP technology:	30 cmd - Skid mounted
	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: 0.025 MT/M, MS scrap: 1.50 MT / M, Other waste (wood, Paper , glass, decontaminated plastic etc): 2.50 MT / M, Boiler ash: 30 MT/Day, Canteen waste: 15 Kg/Day
	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	

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):	197 cmd (Total effluent 300 cmd, out of which 197 cmd From Unit III & 123 cmd from Unit I)
Capacity of the ETP:	300 cmd ETP, 200 cmd RO, 72 cmd MEE
Amount of treated effluent recycled :	82.76 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
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	TPM	0.416	0.584	1	Sale to authorized Reprocessor
2	Waste contaminated with oil (cotton/gaskets/ insulation materials)	5.2	TPM	0.01	0.19	0.20	CHWTSDF
3	Discarded containers/barrels/ liners/IBC/Carboys	33.3	Nos./M	200	100	300	Sale to authorized party after decontamination
4	Chemical sludge form waste water treatment	34.3	TPM	15	5	20	CHWTSDF

5	Sludge from concentration technique (MEE)	36.1	TPM	15.6	36.4	52	CHWTSDF or Sale to authorized party
6	Spent Solvent	20.2	TPM	30	0	30	Sale to authorized party
7	Distillation Residue	20.3	TPM	10.5	4.5	15	CHWTSDF or Sale to authorized party
8	Corrosive waste	32.2	TPM	5	0	5	CHWTSDF or Sale to authorized party
9	Spent Carbon/Charcoal	36.2	TPM	0.5	0.5	1	CHWTSDF or Sale to authorized party
10	Recovered Catalyst/Spent Catalyst	1.6	TPM	0	3	3	CHWTSDF or Sale to authorized party
11	Process Waste	20.4	TPM	0.0	20	20	CHWTSDF or Sale to authorized party
12	Resin	--	TPM	0	10	10	CHWTSDF or Sale to authorized party
13	Filter pads/Bags	36.2	Kg/M	0	200	200	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	30 m	0.9	160
2	16 TPH Boiler	Coal: 72 TPD	2	44.5 m	2.5	160
3	30 TPH Boiler	Indian Coal: 180 TPD OR Imported coal: 120 TPD	3	46 m	2	160
4	14 TPH Boiler	FO/Terpene Biofuel: 32 MT/Day	4	44.5 m	1.2	160
5	750 KVA DG set	HSD: 200 Lit/Hr	5	12 m	0.15	150
6	380 KVA DG set	HSD: 70 Lit/Hr	6	12 m	0.15	80

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	20 TPD	160 TPD	180 TPD
2	Furnace oil/ Terpene Biofuel	0	32 TPD	32 TPD
3	HSD	270 Lit/Hr	0	270 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 :**	As per MIDC Norms
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	Not applicable
	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	--	--	--	--
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):	2430 KVA
	During Operation phase (Demand load):	2430 KVA
	Transformer:	---
	DG set as Power back-up during operation phase:	750 KVA, 380 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	---	---

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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 Build Development	Development & Maintenance green belt	2	1
6	Occuptional , Helath & Safety	PPE, Safety training	5	15
7	Social Welfare & Upliftment	ESC Budget	5	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
A-Pinene	---	1X150 KL	150 KL	150 KL	--	From Nearby source	By Road

Acetone	---	1X10 KL	10 KL	10 KL	---	From Nearby source	By Road
Toluene	---	1X10 KL	10 KL	10 KL	---	From Nearby source	By Road
Caustic lye	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
90% Sulphuric acid	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Phosphoric acid	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Nitric acid	---	1X10 KL	10 KL	10 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
Methanol	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Cyclohexane	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Ethylene dichloride	---	1X50 KL	50 KL	50 KL	---	From Nearby source	By Road
Liq Ammonia	---	1X20 KL	20 KL	20 KL	---	From Nearby source	By Road
Acetaldehyde	---	1X10 KL	10 KL	10 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	---	1X75KL,1X20 KL	95 KL	95 KL	---	Nearby source	By Road
20%,40%,90% Terpinolene	---	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
25% Sulphuric acid	---	1X20KL	20 KL	20 KL	---	Nearby source	By Road
Recovered Acetone	---	1X15 KL	15 KL	15 KL	---	Nearby source	By Road
Recovered Toluene	---	1X10 KL	10 KL	10 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
Dipentene	---	1X5 KL,1X10KL,1X50 KL	65 KL	65 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
Recovered Methanol	---	1X10 KL	10 KL	10 KL	---	Nearby source	By Road
Recovered Cyclohexane	---	1X10 KL	10 KL	10 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:	---
	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	Not Applicable for ToR stage
Water Budget	Not Applicable for ToR stage
Waste Water Treatment	Not Applicable for ToR stage
Drainage pattern of the project	Not Applicable for ToR stage
Ground water parameters	Not Applicable for ToR stage
Solid Waste Management	Not Applicable for ToR stage
Air Quality & Noise Level issues	Not Applicable for ToR stage
Energy Management	Not Applicable for ToR stage
Traffic circulation system and risk assessment	Not Applicable for ToR stage
Landscape Plan	Not Applicable for ToR stage
Disaster management system and risk assessment	Not Applicable for ToR stage
Socioeconomic impact assessment	Not Applicable for ToR stage
Environmental Management Plan	Not Applicable for ToR stage
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

DECISION OF SEAC

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.

Specific Conditions by SEAC:

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 include names of all the products and byproducts to be manufactured on site and make necessary changes in the Sr. No. 31 of the CS.
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.

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.

149th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 149th Day - 5 **Meeting Date** April 6, 2018

Subject: 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 & C-33/1, 33/2, X-9, 10, 11, MIDC Mahad, Dist Raigad,by Privi Organics India Ltd (Unit II)

Is a Violation Case: No

1.Name of Project	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 & C-33/1, 33/2, X-9, 10, 11, MIDC Mahad, Dist Raigad,by Privi Organics India Ltd (Unit II)
2.Type of institution	Private
3.Name of Project Proponent	Privi Organics India Limited (Unit II)
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 & C-33/1, 33/2, X-9, 10, 11, MIDC area , Mahad. Dist Raigad
9.Taluka	Mahad
10.Village	Birwadi
Correspondence Name:	Mr. S. B. Pathare
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot plan approval
	IOD/IOA/Concession/Plan Approval Number: MIDC plot plan approval
	Approved Built-up Area: 32084.99
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.)	59416.00
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.): 34060.60
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	700000000

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)	min 6 m
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	Existing structures like Production plant, Utilities, storage tanks, material sheds, ETP, Admin bldg, R & D, Pilot plant ,Incinerator,Thermocouple,etc. is already constructed.
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	Isobornyl cyclohexanol (IBCH)	51	-21	30
2	L/D- Carvone/Carvacrol	50	125	175
3	Orange oil folds	12	0	12
4	D-Limonene	125	0	125
5	Myrcene	400	0	400
6	Alpha-Campholenic aldehyde (ACA)	50	-12	38
7	Floreol	80	-60	20
8	D-Carvone	5	-5	0
9	Dihydrocarvone	5	-3	2
10	Carvomenthone / Menthone/ Menthol	5	20	25
11	Nimberol	1	1	2
12	Dihydromyrcene	150	-50	100
13	Sandal fleur & derivatives like Indian sandal Core	20	20	40
14	Sandal Touch	5	-3	2
15	Citral Extra Pure	30	0	30

16	Citronellal/Hydroxy Citronellal	20	40	60
17	Cyclocitral (Alpha/Beta/Alpha & Beta mixture)	2	13	15
18	Isocitronellene & Isomer	30	0	30
19	Nitriles- Citronellyl nitrile/Geranyl Nitriles	30	70	100
20	Damascone & Its derivatives Like Alpha/Beta/Delta-Damascone,Beta Isodamascol etc	0	10	10
21	A-Pinene from CST	1611.66	0	1611.66
22	B-Pinene from CST	504.86	0	504.86
23	Limonene from CST	41	0	41
24	Mixed Terpenes/Terpene biofuel from CST OR	744	0	744
25	DDTO/Carene varieties 60,90,98/ Terpene bio fuel	679.15	0	679.15
26	A-Pinene from GTO	537	0	537
27	B-Pinene from GTO	334	0	334
28	Amberfleur & Its derivatives like Ammbergamma,Cedarketol	400	0	400
29	MI for soap	1	1	2
30	Violetone Coeur	2	0	2
31	Timber Touch/Timber forte	5	5	10
32	Electricity Generation	4 MW	0	4MW
33	Recovery of Concentrated Sulphuric acid	48 TPD	12 TPD	60 TPD
34	ESTERS-Para Tertiary Butyl Cyclo Hexyl Acetate (PTBCHA) /PTBCH/Ortho Tertiary Butyl Cyclohexyl acetate(OTBCHA)/OTBCH/ Styrallyl acetate/ Terpinyl acetate (TA)/ Citronellyl acetate/ Geranyl acetate/ Dimethyl Octanol acetate (Tetrahydrogeranyl acetate)/ Nerol acetate (Neryl acetate)/ Isobornyl acetate (IBA)/ Longifolene acetate/2-Methyl Cyclohexyl acetate/ Ethyl Geranate/ Isobutyl Geranate/ Tiglates of Geraniol & Nerol/ PEME/ PADMA/ Propionates esters of of Geraniol/Nerol/Citronellol etc/ Phenyl ethyl acetate/ Esters of Linalool	297	-22	275
35	ALCOHOLS-Citronellol (COL)/ Geraniol/Nerol (GOL/NOL)/ Dihydromyrcenol (DHMOL)/ Terpineol /Damascone(DMO)/ Tetrahydromyrcenol (THMOL)/ Terpinen-4-ol (4-Terpineol)/ Linalool/ Dimethyl Octanol (Tetrahydrogeraniol)	445	300	745
36	Rose Oxide	3	-1	2
37	Nitriles – Geranyl Nitrile/Citronellyl Nitrile	10	-10	0

38	IONONES- Gamma methyl Ionone (GMI)/ Normal methyl Ionone (NMI)/ Alpha Ionone (AI)/ Ionone 100%/ Beta Ionone (BI) (Beta Ionone Technical/PG)/ Gammanolene	50	100	150
39	Geraniol Formate	5	-4	1
40	Cironellol formate	5	-4	1
41	Camphene	1	0	1
42	ISO Longifoline Ketone	1	0	1
43	Prionyl (Privi Moss)	10	0	10
44	Rosaxanol/ Rosepyran	10	0	10
45	Mugenol	6	-5	1
46	Super Sandal Core	2	0	2
47	Hydrogen	15	10	25
48	Aqueous fluoroboric acid (Fluoboric acid) (Byproduct)	152.68	-128.26	24.42
49	Recovered Toluene (Byproduct)	356.98	108.56	465.54
50	Catalyst Recovered (Byproduct)	6.4	1.96	8.36
51	Recovered IPA (Byproduct)	28.01	47.68	75.69
52	Recovered Methanol (Byproduct)	48	137.4	185.4
53	Column Tops (Byproduct)	332.21	59.84	392.05
54	Column Bottom Mass (Byproduct)	319.71	98.94	418.65
55	Recovered Catalyst A (Byproduct)	0	4.2	4.2
56	DHM Column Tops (Byproduct)	0	70.78	70.78
57	DHM Column Bottom Mass (Byproduct)	0	143.79	143.79
58	DHMOL Column Tops (Byproduct)	0	193.70	193.70
59	DHMOL Column Bottom Mass (Byproduct)	0	76.74	76.74
60	Recovered Cyclohexane (Byproduct)	101.78	268.15	369.93
61	Recovered Limonene (Byproduct)	22.7	25.78	48.48
62	Aqueous Solution Aluminium Sulphate+IPA	104.10	311.18	415.28
63	Mix MEK + Butanol/ Acetone +IPA recovered (for Seperation) (Byproduct)	146.3	322	468.30
64	2-Butanol /Isopropyl alcohol (IPA) (Seperated from MEK+Butanol mix) (Byproduct)	35.3	77.58	112.88
65	Zinc Bromide Solution (Byproduct)	8.2	-1.78	6.42
66	Sodium Sulphate Decahydrate (Byproduct)	25.5	-10.5	15
67	Recovered EDC (Byproduct)	40.13	-31.21	8.92
68	DHP (Byproduct)	28.05	-21.03	7.02
69	Sodium Acetate Solution (25-30 %) (Byproduct)	5	2219.15	2224.15
70	Recovered Triethyl amine (Byproduct)	0	1.98	1.98
71	Phosphoric Acid layer (Byproduct)	42.29	-41.5	0.79

72	Dilute Acetic Acid (25-40 %) (Byproduct)	207.64	79.78	287.42
73	Recovered MPK (Byproduct)	13.55	4.96	18.51
74	Sodium Borate solution (Byproduct)	15	11.72	26.72
75	MEK & Methanol Mixture (Byproduct)	45.7	580.33	626.03
76	Potassium Acetate (35-40 %) Solution (Byproduct)	22.5	66.44	88.94
77	Recovered 2-Butanol (Byproduct)	0	0.68	0.68
78	Dilute Sulpuric Acid up to 40 % (Byproduct)	100	1825	1925
79	Isopulygyl Acetate (Byproduct)	0	11.28	11.28
80	Aniline Recovered (Byproduct)	2	21.44	23.44
81	Ammonium Sulphate (30-40 %) Solution (Byproduct)	299.8	230.72	530.52
82	Calcium Sulphate (Byproduct)	181.56	265.10	446.66
83	Ammonium Sulphate / Sodium Sulphate Solution (Byproduct)	0	361.90	361.90
84	Bottom mass/White Oil Residue (Byproduct)	8.1	9.9	18
85	Recovered Acetic Acid (Byproduct)	0	214.88	214.88
86	Potasium sulphate (Byproduct)	20	0.0	20
87	Magnesium Sulphate Wet Cake (Byproduct)	90	-70.68	19.32
88	Recovered Pet Ether & THF (Byproduct)	0	33.17	33.17
89	Chromium Sulphte Solution (Byproduct)	75	80.73	155.73
90	Recovered Pet Ether (Byproduct)	0	17.79	17.79
91	Sodium Sulphate (Byproduct)	189.57	98.54	288.11
92	CST DMS/DMDS/MSM/ Mixed Sulpurs Compounds (Byproduct)	84.44	-48.44	36.0
93	Sodium Sulphide/SMM/Sodium Hydrogen Sulphide Solution (Byproduct)	250.8	-200.8	50
94	Heavy Fractions (Byproduct)	222.53	-116.60	105.93
95	Dipentene/Terpene Biofuel (Byproduct)	95	70	165
96	Pine Tar (Byproduct)	51	0	51
97	Dilute Phosphoric Acid (Byproduct)	40.52	217.11	257.63
98	Barium Hydroxide Recovered (Byproduct)	1	52.69	53.69
99	Recovered IPA solution (Byproduct)	0	4738.20	4738.20
100	Recovered Resin (Byproduct)	0	6.13	6.13
101	Sodium Acetate (Byproduct)	50	-25.25	24.75
102	Recovered Isobutyl alcohol (Byproduct)	0	13.20	13.20
103	Recovered Indian 140 (Byproduct)	0	17.0	17.0
104	Recovered Ethyl Alcohol (Byproduct)	0	31.35	31.35

105	Saturated Alcohol (Byproduct)	0	60.35	60.35
106	Recovered Ethyl Acetate (Byproduct)	0	1183	1183
107	Recovered Ethylene Diamine (Byproduct)	0	727.12	727.12
108	Recovered MEK (Byproduct)	0	4.41	4.41
109	Methyl Pentenone (Byproduct)	0	14.77	14.77
110	Dione Residue (Byproduct)	0	3.33	3.33
111	Aqueous DMF (Byproduct)	0	80.18	80.18
112	Recovered charcoal (Byproduct)	0	0.98	0.98
113	Prionyl Residue (Byproduct)	0	4.78	4.78
114	Zinc chloride solution (Byproduct)	336.43	-336.43	0
115	Prionyl Residue (Byproduct)	41.3	-41.3	0

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	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) :	1810 cmd
	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	49	0	49	14	0	14	35	0	35
Industrial Process	192	83	275	108	-26	82	84	114	198
Cooling tower & thermopack	686.2	764.8	1451	610.2	733.8	1344	76	31	107
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 & 1 no is above ground - 1500 KL
	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:**	--
	Quantity of storm water:	--
	Size of SWD:	10.5 x 15.0 x 2.25 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 the premises
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	5 lakhs

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: 0.3 MT/M, MS scrap: 17 MT / M, Other waste (wood, Paper , glass, decontaminated plastic etc): 20 MT / M, Boiler ash: 60 MT/Day, Thermopack Ash-5.5 MT/Day, Canteen waste: 1.6 MT/M
	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, Spent Carbon/Charcoal, Recovered Catalyst/Spent Catalyst, Process Waste, Resin, Filter pads/Bags
	Biomedical waste (If applicable):	0.06Kg/M
	STP Sludge (Dry sludge):	--
	Others if any:	E waste: 57 Kg/M, Lead acid batteries: 30 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):	Authorised BMW disposal facility
	STP Sludge (Dry sludge):	--
	Others if any:	E-Waste will be dispose off to authorised 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:**	--
	O & M cost:	--

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):	340
Capacity of the ETP:	300 cmd
Amount of treated effluent recycled :	242 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 > Sand filter > Carbon filter > RO plant > RO reject to MEE
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	MT/M	0.5	0.5	1	Sale to authorized Preprocessor
2	Waste contaminated with oil (cotton/gaskets/ insulation materials)	5.2	Kg/M	150	150	300	CHWTSDF
3	Discarded containers-Drums/ Barrels, IBC's/ Carboys	33.3	Nos/M	276	174	400	Sale to authorized party
4	Chemical sludge form waste water treatment	35.3	MT/M	40	2	42	CHWTSDF
5	Sludge from concentration technique (MEE)	36.1	MT/M	47.4	27.6	75	CHWTSDF or Sale to authorized party
6	Discarded Asbestos	15.2	Kg/M	8.3	0	8.3	Sale to authorized party
7	Spent Catalyst/ Recovered Catalyst	1.6	MT/M	0.5	4.5	5	CHWTSDF or Sale to authorized party
8	Spent Carbon/ Charcoal	36.2	MT/M	2.2	1.8	4	CHWTSDF or Sale to authorized party
9	Silica / Molecular Sieves	1.6	MT/M	2.2	0	2.2	CHWTSDF or Sale to authorized party
10	Process Waste	20.4	MT/M	0	35	35	CHWTSDF or Sale to authorized party
11	Resin	--	MT/M	0.1	0.9	1	CHWTSDF or Sale to authorized party
12	Ash from Incinerator	37.2	MT/M	0	30	30	CHWTSDF or Sale to authorized party
13	Distillation Residue/White Oil Residue	20.3	MT/M	0	15	15	CHWTSDF or Sale to authorized party
14	Filter pads/ Bags	33.2	Kg/M	0	200	200	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	Boiler 18 TPH	Coal -50 MTD	1	42	1.3	140
2	Boiler 8 TPH	Coal-22.5 MTD	2	42	1.3	140
3	Boiler 15 TPH	Coal-40 MTD	3	46	2.0	140
4	Boiler 6 TPH	Coal-22.5 MT/day	4	30	0.5	140
5	Boiler 6 TPH	FO- 4.2 KL/Day/ Terpene Biofuel- 6 KL/Day	5	30	0.5	140
6	Thermic Fluid Heater-1	FO- 0.55 KL/day / Terpene Biofuel- 0.81 KLD	6	30	0.25	158
7	Thermic Fluid Heater-2	Coal-3.624 MT/day	7	30	0.25	158
8	Incineration -1	Diesel/Terpene Biofuel- 240 litre/day	8	30	0.25	94
9	Pyrolizer vent 101, 201, 301, 401	FO/Terpene Biofuel-265 Kg/hr	9	27	0.3	160
10	N2 Heater vent 1,2,3	FO/Terpene Biofuel-30 Kg/hr	10	27	0.3	200
11	Scrubber vent 1,2, 3	---	11	10	0.2	--
12	DG set 380 KVA	Diesel -50 Lit/hr	12	12	0.177	141
13	DG set 625 KVA & 125 KVA	Diesel-60 Lit/hr	13	12	0.177	141
14	DG set 750 KVA	Diesel -100 Lit/hr	14	12	0.177	185
15	DG set 1000 KVA	Diesel-100 Lit/hr	15	12	0.177	185
16	Boiler 20 TPH	FO/ Terpene Biofuel- 30 MT/Day	16	46	2	140
17	50 TPH Boiler (In place with existing 30 TPH)	Imported Coal- 200 TPD/ Indian Coal- 300 TPD	17	56	2.6	180
18	Incineration-2	FO/ HSD/ Terpene Biofuel- 120 Kg/hr	18	35	0.55	100
19	DG set 2 nos of 500 KVA	Diesel- 100 Lit/ Hr	19	12	0.177	185
20	DG Set 1000 KVA	Diesel-100 Lit/hr	20	12	0.177	185

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	138 TPD	162 TPD	300 TPD
2	Furnance Oil/Terpene Biofuel	19.65 KLD	13.23 KLD	32.88 KLD
3	HSD	310 Lit/ Hr	200 Lit/Hr	510 Lit/Hr
41.Source of Fuel		Near by source		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	As per MIDC Norms
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	Not applicable
	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	Not applicable	Not applicable	Not applicable	Not applicable
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	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KVA
	DG set as Power back-up during construction phase	DG Set 500 KVA
	During Operation phase (Connected load):	6200 KVA
	During Operation phase (Demand load):	6200 KVA
	Transformer:	---
	DG set as Power back-up during operation phase:	DG Set- 2 nos. of 1000KVA, 1 nos of 750 KVA & 2 nos. of 500 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	---	---

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution	Stack, ESP	--
Water pollution	ETP, STP	--
Nosie Pollution	Acoustic enclosure, Silencer	--
Hazardous waste	Disposal to CHWTSDF, Sale to authorised party	--

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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	1000	30
2	Environmetal Monitoring	Regular Monitoring	15	7
3	Water Pollution Control	ETP,RO,MEE	150	165
4	Hazardous Waste and Solid waste mangement	Storage and Disposal	10	50
5	Green Build Development	Development and maintenance of green belt	5	3
6	Occupational health and safety	PPE, Safety tranining	20	50
7	Social welfare and upliftment	ESC Budget	15	0

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	---	1X125KL,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:	1086.51 sq.m
	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	Not Applicable for ToR stage
Water Budget	Not Applicable for ToR stage
Waste Water Treatment	Not Applicable for ToR stage
Drainage pattern of the project	Not Applicable for ToR stage
Ground water parameters	Not Applicable for ToR stage
Solid Waste Management	Not Applicable for ToR stage
Air Quality & Noise Level issues	Not Applicable for ToR stage
Energy Management	Not Applicable for ToR stage
Traffic circulation system and risk assessment	Not Applicable for ToR stage
Landscape Plan	Not Applicable for ToR stage
Disaster management system and risk assessment	Not Applicable for ToR stage
Socioeconomic impact assessment	Not Applicable for ToR stage
Environmental Management Plan	Not Applicable for ToR stage
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.

DECISION OF SEAC

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

Specific Conditions by SEAC:

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.

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.