158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for proposed project for expansion in existing products & addition of new products for manufacturing of Active Pharmaceutical Ingredients & intermediates at existing unit of Laxachem Organics Private Limited at Plot No.: D-2, MIDC area Amravati, Dist. Amravati, Maharashtra 444607.

Is a Violation Case: No

1.Name of Project	Proposed project of expansion in existing products & addition of new products for manufacturing of Active Pharmaceutical Ingredients & intermediates by Laxachem Organics Private Limited at existing unit at Plot No.: D-2, MIDC area Amravati, Dist. Amravati, Maharashtra 444607.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Paresh J. Raja
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Active Pharmaceutical Ingredients & intermediates
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	No
8.Location of the project	MIDC Amravati
9.Taluka	AMRAVATI
10.Village	AMRAVATI
Correspondence Name:	Mr. Paresh J. Raja
Room Number:	Plot No. D-2
Floor:	--
Building Name:	--
Road/Street Name:	MIDC- Amravati
Locality:	MIDC- Amravati
City:	Amravati
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 4400
13.Note on the initiated work (If applicable)	Not applicable (Already existing unit)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	4400
16.Deductions	Not applicable
17.Net Plot area	4400
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 4400
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 2743
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 4400
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 22-11-2018
19.Total ground coverage (m2)	1457.41
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	33%
21.Estimated cost of the project	130400000

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)	9 M
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	Yes, Existing Manufacturing Unit
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	Methyl Paraben	6 T/A	114 T/A	120 T/A
2	Propyl Paraben	6 T/A	30 T/A	36 T/A
3	Sodium Methyl paraben	30 T/A	210 T/A	240 T/A
4	Sodium Propyl Paraben	12 T/A	108 T/A	120 T/A
5	Chlorbutol	6 T/A	66 T/A	72 T/A
6	Propyl Gallate	0	24 T/A	24 T/A
7	Dioctyl Sodium Sulfo Succinate & Intermediates (Docusate Sodium)	0	648 T/A	648 T/A
8	Dioctyl Calcium Sulfo Succinate & intermediates	0	6 T/A	6 T/A
9	Dioctyl Potassium Sulfosuccinate & intermediates	0	6 T/A	6 T/A

10	Diamyl Sodium Sulfo Succinate & Intermediates	0	60 T/A	60 T/A
11	Methyl salicylate	0	120 T/A	120 T/A
12	Bronopol	0	36 T/A	36 T/A
13	TOTAL	60 T/A	1428 T/A	1488 T/A

32.Total Water Requirement

Dry 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
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	1.5	1.5	3	0.9	0.2	1.1	0.6	1.3	1.9
Industrial Process	2	3.1	5.1	1.1	0.4 (+0.2 reaction water ,-0.6 from washings)	1.5	0.9	2.7	3.6
Cooling tower & thermopack	2	119	121	1.2	104.8	106	0.8	14.2	15
Gardening	0	8	8	0	8	8	0	0	0
Fresh water requirement	5.5	131.6	137.1	3.2	113.4	116.6	2.3	18.2	20.5
Fresh water requirement	Additional live steam condensate from MEE	--	--	--	--	--	--	--	2.6
Fresh water requirement	Water Recycled	---	20.5+2.6 = 23.1	--	--	--	--	--	--
Fresh water requirement	Total fresh water required 2nd day onwards	--	114	--	--	--	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	10 m3, 1 No.
	Location of the RWH tank(s):	Near Fire Hydrant plant
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs. 80000/-
	Budgetary allocation (O & M cost) :	Rs. 2000/- PA
	Details of UGT tanks if any :	i) Water Tank – 1 Lack liters (Water storage for Fire Hydrant system) ii) Solvent storage tank;- 20 ltr (Methanol)

35.Storm water drainage	**Natural water drainage pattern:**	Adequate and separate storm water drains will be provided as per natural slopes.
	Quantity of storm water:	will be submitted at time of EIA
	Size of SWD:	will be submitted at time of EIA

Sewage and Waste water	**Sewage generation in KLD:**	1.9 CMD
	STP technology:	Domestic sewage will be treated in secondary treatment of ETP
	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:**	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	• Discarded Drums= 1800 Nos./A
	Wet waste:	• ETP sludge = 42.24 TPA • Spent Solvents= 204 TPA • Process residue = 0.084 TPA • MEE salts = 13.2 TPA • Spent carbon from ETP = 3.0 TPA • Carbon from process = 8.4 TPA
	Hazardous waste:	• ETP sludge = 42.24 TPA • MEE Salts= 13.2 TPA • Spent Carbon from ETP= 3.0 TPA • Spent Solvents= 204 TPA • Process residue = 0.084 TPA • Carbon from process = 8.4 TPA
	Biomedical waste (If applicable):	0.01 T/A
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	• Discarded Drums= 1800 Nos./A • Waste paper, Sweeping material = 0.24 TPA • Plastic bags = 0.6 TPA • Ash from Boiler= 835.44 TPA • E-Waste = 0.12 TPA • Battery waste = 0.12 TPA • Biomedical waste = 0.01 TPA
Mode of Disposal of waste:	**Dry waste:**	CHWTSDF
	Wet waste:	CHWTSDF / To MPCB authorized recyclers
	Hazardous waste:	CHWTSDF/To MPCB authorized recyclers
	Biomedical waste (If applicable):	Authorized Biomedical Waste disposal facility.
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Sale to authorized dismantlers/Recyclers.
Area requirement:	**Location(s):**	Near ETP area
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 12 Sq.m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 0.5 Lac
	O & M cost:	Rs. 3 Lac/A

37.Effluent Charecterestics

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

1	A) Anaerobic Treatment	--	--	--	--
2	Parameters	Unit	Inlet To Primary	Outlet from Anaerobic	--
3	Flow	CMD	2.2	2.2	--
4	pH	--	6.0-7.0	7.0-7.5	--
5	BOD3,27ºC	mg/L	30000-35000	9000-10000	--
6	COD	mg/L	65000-70000	18000-20000	--
7	TDS	mg/L	4000-4500	3000-3500	--
8	TSS	mg/L	400-500	<100	--
9	b) ETP Treatment	---	--	--	--
10	Parameters	Unit	Inlet to Secondary	Inlet to Tertiary	--
11	Flow	CMD	2.2+16.4+1.9= 20.5	20.5	--
12	pH	--	7.0-7.5	7.0-7.5	--
13	BOD3,27ºC	mg/L	1000-1100	80-100	--
14	COD	mg/L	2000-2100	300-350	--
15	TDS	mg/L	1500-1800	1500-1800	--
16	TSS	mg/L	<100	<100	--
17	C) Reverse Osmosis	--	--	--	--
18	Parameters	Unit	Inlet To RO	Permeate	Reject
19	Flow	CMD	20.5	16.5	4
20	COD	mg/L	200-250	100-150	500-600
21	TDS	mg/L	1500-1800	<100	7000-7500
22	D)Single Effect Evaporators	--	--	--	--
23	Parameters	Unit	Reject From RO	Outlet From MEE	--
24	Flow	CMD	4	6.6 (4+2.6)	--
25	COD	mg/L	500-600	<250	--
26	TDS	mg/L	7000-7500	<100	--

Amount of effluent generation (CMD):	20.5 CMD (18.6 Trade + 1.9 Domestic)
Capacity of the ETP:	Existing capacity 1.7CMD will be upgraded to 25 CMD
Amount of treated effluent recycled :	23.1 CMD (20.5 CMD total effluent + 2.6 CMD live steam condensate)
Amount of water send to the CETP:	Nil, ZLD Unit
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	High COD stream from process will be treated by anaerobic treatment separately. Treated effluent will be mixed with utility blowdown and Domestic wastewater in secondary as a combined treatment. Treated effluent will be fed to RO. Permeate will be reused and reject will be fed to Evaporator. Thus unit will be run on ZLD scheme.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Solvents	28.6	T/A	--	204	204	Sale to MPCB authorized
2	Carbon from process	28.1	T/A	--	8.4	8.4	To CHWTSDF

3	Process residue	20.3	T/A	--	0.084	0.084	To CHWTSDF
4	ETP Sludge	35.3	T/A	0.36	41.88	42.24	To CHWTSDF
5	MEE salts	35.3	T/A	--	13.2	13.2	To CHWTSDF
6	Spent Carbon from ETP	35.3	T/A	--	3	3	To CHWTSDF
7	Discarded drums	33.3	Nos./A	600	1200	1800	Sale to authorized dismantlers / Recyclers.
8	Other waste:	--	--	--	--	--	--
9	E-Waste	--	T/A	--	0.12	0.12	Sale to authorized dismantlers/ Recyclers
10	Battery waste	--	T/A	--	0.12	0.12	Returned to battery manufacturer through authorized dealer on buy back procurement
11	Biomedical waste	--	T/A	--	0.01	0.01	Authorized Biomedical Waste disposal facility.
12	Non- Hazardous Waste:	--	--	--	--	--	--
13	Waste paper	--	T/A	0.12	0.12	0.24	Sale
14	Plastic bags	--	T/A	0.24	0.36	0.6	Reuse/sale to authorized party
15	Ash from Boiler	--	T/A	1.44	834	835.44	Sale to Brick Manufacturer/cement industry

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	Existing Boiler 1 TPH	Briquette 3 TPD	1	11	250	125o C
2	Proposed Boiler 2 TPH	Briquette/coal 6 TPD	1	30	250	125o C
3	DG Set 200 KVA	55 Lit/hr.	1	3 M above enclosure	200	140o C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquettes	3 TPD	6 TPD	9 TPD
2	Coal	--	6 TPD	6 TPD
3	HSD	--	55 Lit/hr	55 Lit/hr
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		road via truck		

43.Green Belt Development	**Total RG area :**	Existing: 406.35 sq.m Proposed: 1048.65 sq.m. Total: 1455.0 Sq. m
	No of trees to be cut :	No
	Number of trees to be planted :	160 No. Trees and Shrubs to be planted
	List of proposed native trees :	Banyan, Pipal, Neem, Kadamb, etc.
	Timeline for completion of plantation :	With the construction of project

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	Terminalia arjuna	Arjun	10	Pollution resistant and Native
2	Bauhinia racemosa	Apta	10	Pollution resistant and Native
3	Ficus benghalensis	Banyan	5	Pollution resistant and Native
4	Ficus religiosa	Pimpal	5	Pollution resistant and Native
5	Cassia fistula	Amaltas	10	Pollution resistant and Native
6	Azadirachta indica	Kaduneem	10	Pollution resistant and Native
7	Plumeria alba	Chafa	10	Pollution resistant and Native
8	Neolamarckia cadamba	Kadamb	5	Pollution resistant and Native
9	Teminalia tomentosa	Ain	10	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	10	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	15	Pollution resistant and Native
12	Lantana camara	Ghaneri	15	Pollution resistant and Native
13	Calatropis gigentia	Rui	15	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	10	Pollution resistant and Native
15	Nerium indicum	Kanher	10	Pollution resistant and Native
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)	--
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	Existing Sanction Load: 100 KW Additional required: 250 KW Total: 350 KW
	During Operation phase (Demand load):	Total: 350 KW
	Transformer:	200 KW (MSEDCL)
	DG set as Power back-up during operation phase:	Proposed: 1 DG set of 200 KVA
	Fuel used:	HSD 55 Lit/hr. at full load
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Nil

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	Stack of adequate height	Multi-cyclone followed by Bag filter and Stack of adequate height
Water	ETP	ETP, RO & MEE
Noise	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Solid Waste	Disposal to CHWTSDF	Disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 112 Lac
	O & M cost:	Rs. 52.5 Lac/A

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	Air pollution control	Multi-cyclone followed by Bag filter and Stack of adequate height	10	0.5
2	Water pollution control	Effluent Treatment Plant, RO & Multi Effect Evaporator	100	50
3	Noise pollution Control	Acoustic enclosure and regular maintenance	1.0	0.5
4	Occupational health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	1.5	1.0
5	Environmental Monitoring budget	Environmental Monitoring	-	0.5
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	1	1
7	Green belt	Development & Maintenance	1	0.2
8	Total	--	114.5	53.7

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
Toluene	Liquid	Drums	0.2 M3	3 M3	0.367 M3	local	road
Acetone	Liquid	Drums	0.2 M3	2 M3	0.200 M3	local	road
Chloroform	Liquid	Drums	0.3 M3	2.1 M3	0.220 M3	local	road
Caustic potash	Solid	Bags	0.05 MT	0.5 MT	0.024 MT	local	road
Para Hydroxy Benzoic Acid	Solid	Bags	0.025 MT	24 MT	1.113 MT	local	road
Methanol	Liquid	Tank	18 M3	18 M3	1.830 M3	local	road
Caustic soda	Solid	Bags	0.025 MT	1.5 MT	0.230 MT	local	road
Calcium Chloride	Solid	Bags	0.025 MT	0.15 MT	0.0025 MT	local	road
N-propanol	Liquid	Drums	0.2 M3	2 M3	0.217 M3	local	road
Di-Octyl maleate	Liquid	Drums	0.2 MT	10 MT	1.827 MT	local	road
Sodium Bisulphite	Solid	Bags	0.025 MT	5 MT	0.511 MT	local	road
Activated Carbon	Solid	Bags	0.03 MT	0.3 MT	0.020 MT	local	road
Para Toluene Sulphonic Acid	Solid	Bags	0.05 MT	0.5 MT	0.0555 MT	local	road
Potassium Bisulphite	Solid	Bags	0.025 MT	0.1 MT	0.005 MT	local	road
Gallic Acid	Solid	Bags	0.025 MT	2 MT	0.056 MT	local	road

2Bromo2Nitro1,3 Propanediol	Solid	Bags	0.025 MT	2 MT	0.100 MT	local	road
Salicylic acid	Solid	Bags	0.025 MT	3 MT	0.316 MT	local	road
Di-amyl sodium sulfosuccinate	Liquid	Drums	0.2 MT	1 MT	0.052 MT	local	road

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:	201 Sq.m.
	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):	6 m with turning radius of 9m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f) B1
	Court cases pending if any	Nil
	Other Relevant Informations	Nil
	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 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 to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

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

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

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

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to submit lay out plan showing contour levels, storm water drains and rain water harvesting structures.
4) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc
5) 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.
6) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
7) PP to submit JVS sampling analysis reprots of air and water samples for last six months.
8) PP to obtain water supply permisson from MIDC for increased water demand.
9) PP to carry out HAZOP and QRA and submit disaster management plan.
10) PP to submit hazardous chemical handling protocol
11) PP to include water and carbon foot print monitoring in the EMP.
12) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

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.

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for Environmental Clearance (EC) of proposed project for expansion in existing products & addition of new products for manufacturing of Active Pharmaceutical Ingredients & intermediates by Auro Laboratories Limited at Plot No.: K-56, MIDC Tarapur, Dist. Palghar, Maharashtra 401506.

Is a Violation Case: No

1.Name of Project	Proposed project for expansion in existing products & addition of new products for manufacturing of Active Pharmaceutical Ingredients & intermediates by Auro Laboratories Limited at Plot No.: K-56, MIDC Tarapur, Dist. Palghar, Maharashtra 401506.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Siddhartha Deorah, Auro Laboratories Limited
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Active Pharmaceutical Ingredients & intermediates
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	No.Environmental Clearance is not required for existing activity as after establishment Auro have not done any expansion after EIA notification 2006.
8.Location of the project	Plot No. K-56, MIDC Tarapur, Dist. Palghar, Maharashtra 401506
9.Taluka	Palghar
10.Village	Salvad
Correspondence Name:	Mr. Siddhartha Deorah
Room Number:	314
Floor:	Not Applicable
Building Name:	T. V. Industrial Estate
Road/Street Name:	S. K. Ahire Marg
Locality:	Worli
City:	Mumbai
11.Area of the project	MIDC Tarapur
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 6420
13.Note on the initiated work (If applicable)	For proposed expansion work will be initiated after getting EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	4280 Sq. Mtr.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 6420
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 4750.57
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 6420
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 28-11-2018
19.Total ground coverage (m2)	1929.11
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	45.07
21.Estimated cost of the project	267900000

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)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6 m
29.Existing structure (s) if any	Existing plant will be demolished to align the expansion project properly.
30.Details of the demolition with disposal (If applicable)	Details will be provided at the time of EIA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Metformin HCL & Metformin HCL DC	60 (MT/A)	9540 (MT/A)	9600 (MT/A)
2	Chlorphenamine Maleate	Not Applicable	12 (MT/A)	12 (MT/A)
3	Glimepiride	Not Applicable	1.2 (MT/A)	1.2 (MT/A)
4	Glipizide	Not Applicable	1.2 (MT/A)	1.2 (MT/A)
5	Gliclazide	Not Applicable	1.2 (MT/A)	1.2 (MT/A)
6	Glibenclamide	Not Applicable	1.2 (MT/A)	1.2 (MT/A)
7	Chloroxazone	Not Applicable	120 (MT/A)	120 (MT/A)
8	Total	60 (MT/A)	9676.8 (MT/A)	9736.8 (MT/A)

32.Total Water Requirement

Dry 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
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	4.0	1.0	5.0	01.0	0.2	1.2	3.00	0.8	3.8
Industrial Process	16	23	39	1	1	2	15	22	37
Cooling tower & thermopack	9.0	137.0	146.00	5.0	129.0	134.0	0.05	5.55	05.60
Gardening	1.0	7.0	8.0	1.0	7.0	8.0	0.0	0.0	0.0

Fresh water requirement	30.0	168.0	198.0	8.0	137.2	145.2	22.0	30.8	52.8

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	Rain water will be collected in existing raw water tank of 100 m3
	Location of the RWH tank(s):	UG water Tank – Near ETP
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	Already included in capital cost
	Budgetary allocation (O & M cost) :	Already included in capital cost
	Details of UGT tanks if any :	Water Tank – Existing- 1 No.: 100 M3, proposed-1 No.: 100 M3
35.Storm water drainage	**Natural water drainage pattern:**	Proper and separate storm water drains will be provided as per natural slopes.
	Quantity of storm water:	190 mm of rain fall per hr, 0.5 runoff coeff.= 111.72 m3/hr., 0.031 m3/s
	Size of SWD:	0.5 m x 0.5 m x 0.5 m
Sewage and Waste water	**Sewage generation in KLD:**	3.8
	STP technology:	Domestic Sewage will be treated in secondary treatment of ETP as combined treatment.
	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:**	Quantity will be provided at the time of EIA
	Disposal of the construction waste debris:	Within premises in low lying area
Waste generation in the operation Phase:	**Dry waste:**	• Hazardous Waste: • Discarded containers/barrels/HDPE bags – 1764 Nos./M, Non-Hazardous Waste: • Waste paper - 330 kg/A • Boiler Ash –118800 kg/A
	Wet waste:	• Hazardous Waste: • ETP Sludge – 23.61 TPA • MEE salts –13.38 TPA • Spent Carbon from process – 4.96 TPA • Process Residue – 7.92 TPA
	Hazardous waste:	• Hazardous Waste: • ETP Sludge – 23.61 TPA • MEE salts –13.38 TPA • Spent Carbon from process – 4.96 TPA • Process Residue – 7.92 TPA • Discarded containers/barrels& liners used for HW/Chemicals 1764 nos./M • Non-Hazardous Waste: • Waste paper- 330 kg/A • Boiler Ash – 118800 kg/A
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party for reuse
	Wet waste:	CHWTSDF
	Hazardous waste:	CHWTSDF/To MPCB authorized recyclers
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Sale to authorized dismantlers/Recyclers.
Area requirement:	**Location(s):**	Near ETP area
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 16 Sq.m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in total capital cost
	O & M cost:	5.52 lacs/A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	A) ETP Treatment	--	--	--	--
2	Parameters	Unit	Inlet To Primary	Inlet to Tertiary	Discharged to CETP
3	Flow	CMD	49.00	52.80 (49+3.8 from domestic)	19.00
4	pH	mg/L	3.0-4.0	7.0-7.5	7.0-7.5
5	BOD3,27ºC	mg/L	1500-1750	80-100	< 100
6	COD	mg/L	3000-3500	250-300	< 250
7	TSS	mg/L	400-500	50-100	< 100
8	TDS	mg/L	800-1000	800-1000	< 2100
9	B) Reverse Osmosis	--	--	--	--
10	Parameters	Unit	Inlet To RO	Permeate	Reject
11	Flow	CMD	33.8	27.04	6.76
12	pH	--	7.0-7.5	7.0-7.5	7.0-7.5
13	COD	mg/L	100-150	<100	300-400
14	TDS	mg/L	800-1000	<100	4500-5000
15	C) Multiple Effect Evaporator	--	--	--	--
16	Parameters	Unit	Reject From RO	Outlet From MEE	--
17	Flow	CMD	6.76	10.14 (6.76 + 3.38 steam condensate)	--
18	pH	--	7.0-7.5	7.0-7.5	--
19	BOD3,27ºC	mg/L	<30	<30	--
20	COD	mg/L	300-400	< 250	--
21	TDS	mg/L	4500-5000	<100	--

Amount of effluent generation (CMD):	Industrial: 49.00 CMD Domestic: 3.8 CMD
Capacity of the ETP:	60 CMD
Amount of treated effluent recycled :	37.18 CMD

Amount of water send to the CETP:	Amount of effluent send to the CETP, Tarapur will be 19.00 CMD. Remaining 33.8 CMD effluent will be recycle after proper treatment
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Industrial Effluent 49.00 CMD including cooling tower & Boiler blow downs will be treated in primary treatment. Primary treated wastewater along with domestic waste water of 3.8 CMD will be subjected to two-stage biodegradation as secondary treatment. The outlet of the secondary treatment will be pumped to Pressure Sand Filter (PSF). After tertiary treatment 19 CMD of water will be discharge to CETP, Tarapur & remaining 33.8 CMD of water will pumped to RO. RO permeate will be reused/recycled in
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process waste sludge / residue	28.1	T/A	0.048	7.7872	7.92	To CHWTSDF
2	ETP Sludge	35.3	T/A	1.0	21.81	23.61	To CHWTSDF
3	MEE salts	35.3	T/A	--	13.38	13.38	To CHWTSDF
4	Spent Carbon from process	28.3	T/A	1.0	3.96	4.96	To CHWTSDF
5	Discarded containers/barrels/HDPE bags	33.1	Nos./M	--	1764	1764	Sale to authorized dismantlers / Recyclers
6	Other waste:	--	--	--	--	--	--
7	E-Waste	--	KG/A	25.2	76.8	102	Sale to authorized dismantlers/ Recyclers
8	Battery waste	--	KG/A	62.4	137.64	200.04	Returned to battery manufacturer through authorized dealer on buy back procurement
9	Non-Hazardous Waste Details	--	--	--	--	--	--
10	Waste paper	--	KG/A	116.4	213.6	330	Sale
11	Plastic bags	--	Nos. /year	28200	102972	131172	Reuse/sale to authorized party
12	Boiler Ash	--	KG/A	Nil	118800	118800	Sale to Brick Manufacturer/cement industry

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 – 2 nos. of 4 TPH (Proposed)	Briquettes 22 TPD	1	30	0.7	125°C
2	Thermopac – 100000 Kcal./hr. (Proposed)	LDO 800 lit/month	1	30	0.4	130°C
3	DG Set – 1000 KVA (Proposed)	HSD, 265 lit/hr. at full load	1	7 m above enclosure	0.2	140°C
4	Note: Existing FO fired boiler & existing DG set will be dismantled.	--	--	--	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquettes	Not Applicable	22 TPD	22 TPD
2	LDO	Not Applicable	800 lit/month	800 lit/month
3	HSD	Not Applicable	265 Lit/hr.at full load	265 Lit/hr.at full load
41.Source of Fuel		Local & Imported		
42.Mode of Transportation of fuel to site		Through truck/ tanker by Road		

43.Green Belt Development	**Total RG area :**	Existing: 200 sq.m Proposed: 1215 sq.m. Total: 1415 sq. m
	No of trees to be cut :	No
	Number of trees to be planted :	185 Nos. of Trees and Shrubs to be planted
	List of proposed native trees :	Banyan, Pipal, Neem, Kadamb, etc.
	Timeline for completion of plantation :	With the construction of project

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	Terminalia arjuna	Arjun	20	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficusbenghalensis	Banyan	10	Pollution resistant and Native
4	Ficusreligiosa	Pimpal	15	Pollution resistant and Native
5	Cassia fistula	Amaltas	12	Pollution resistant and Native
6	Azadirachtaindica	Kaduneem	12	Pollution resistant and Native
7	Plumeria alba	Chafa	08	Pollution resistant and Native
8	Neolamarckiacadamba	Kadamb	10	Pollution resistant and Native
9	Teminaliatomentosa	Ain	07	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	14	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	17	Pollution resistant and Native
12	Lantana camara	Ghaneri	15	Pollution resistant and Native
13	Calatropisgigentia	Rui	10	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	07	Pollution resistant and Native
15	Neriumindicum	Kanher	08	Pollution resistant and Native
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)	100 KW
	DG set as Power back-up during construction phase	Will be hired on rent from local vendor
	During Operation phase (Connected load):	1450 KW
	During Operation phase (Demand load):	1342 KW
	Transformer:	750 KVA
	DG set as Power back-up during operation phase:	1 DG set of 1000 KVA. Existing DG will be dismantled.
	Fuel used:	HSD 265 Lit/hr. at full load
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Nil

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Stack of adequate height	Multi-cyclone followed by Bag filter and Stack of adequate height
Water	ETP	ETP, RO & MEE
Noise	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Solid Waste	Disposal to CHWTSDF	Disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	217.36 lacs
	O & M cost:	104.32 lacs/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	1.00
2	Debris	Solid Waste	1.00
3	Construction equipment	Solid Waste	0.50

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	Provision of bag filter & stack	5	0.20
2	Water pollution control	Effluent Treatment Plant, RO & Multi Effect Evaporator	208.64	98.10
3	Noise pollution Control	Acoustic enclosure and regular maintenance	1	0.50
4	Occupational health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	4	3
5	Environmental Monitoring budget	Environmental Monitoring	--	7
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	2.72	5.52
7	Green belt	Development & Maintenance	1.0	0.5
8	--	Total	222.36	114.82

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
Dicyandiamide (DCDA)	Solid	warehouse	30	25	128.8	Local	By Road
Dimethylamine Hydrochloride (DMA HCL)	Solid	warehouse	35	30	141.4	Local	By Road
Xylene	Liquid	warehouse	50	45	50	Local	By Road
Toluene	Liquid	warehouse	1	0.70	3.6	Local	By Road
Cyanobase	Liquid	warehouse	0.50	0.10	0.6	Local	By Road
Caustic Potash Flakes	Solid	warehouse	0.50	0.05	0.25	Local	By Road
Malic Acid	Solid	warehouse	0.50	0.03	0.19	Local	By Road
IPA	Liquid	warehouse	1	0.40	1.88	Local	By Road
Polyvinylpyrrolidone K-30	Solid	warehouse	1.5	1.0	7.5	Local	By Road
Sodium Starch Glycollate	Solid	warehouse	1	0.80	3.6	Local	By Road
Maize Starch	Solid	warehouse	1	0.40	1.8	Local	By Road
Aerosil	Solid	warehouse	0.50	0.25	1.25	Local	By Road
Magnesium Stearate	Solid	warehouse	0.50	0.10	0.6	Local	By Road
Glimepiride Sulfonamide	Liquid	warehouse	0.50	0.02	0.16	Local	By Road
Potassium carbonate	Solid	warehouse	0.50	0.02	0.14	Local	By Road

Trans-4-methylcuclohexyl isocyanate	Solid	warehouse	0.50	0.15	0.80	Local	By Road
Liq. AMMONIA	Liquid	warehouse	0.50	0.04	0.2	Local	By Road
Glipizidesulfamide	Solid	warehouse	0.50	0.02	0.10	Local	By Road
Anhydrous potassium carbonate	Solid	warehouse	0.50	0.02	0.09	Local	By Road
Cychlohexylisocyanate	Liquid	warehouse	0.50	0.2	0.20	Local	By Road
N.Amino-3-Azabicyclo	Solid	warehouse	0.50	0.02	0.1	Local	By Road
Ethyl Acetate	Liquid	warehouse	0.50	0.07	0.37	Local	By Road
Acetonitrile	Liquid	warehouse	0.50	0.07	0.32	Local	By Road
Glibenclamidesufamide	Solid	warehouse	0.50	0.02	0.11	Local	By Road
Dimethyl formamide	Liquid	warehouse	0.50	0.10	0.6	Local	By Road
Caustic soda	Liquid	warehouse	0.50	0.05	0.23	Local	By Road
Activated Carbon	Solid	warehouse	0.50	0.1	0.42	Local	By Road
Methanol	Solid	warehouse	60	50	55	Local	By Road
Acetone	Liquid	warehouse	0.50	0.25	1.6	Local	By Road
HCL	Liquid	warehouse	0.50	0.10	0.48	Local	By Road
Methylene di chloride	Liquid	warehouse	0.50	0.30	1.4	Local	By Road
Chlorzoxazone	Solid	warehouse	1.5	1.00	1.00	Local	By Road

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:	360 Sq. Mtr.
	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):	6 m. with turning radius of 9 m.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f) B1
	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	28-11-2018

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.

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

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

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

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

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc
4) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
5) 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.
6) PP to carry out HAZOP and QRA and submit disaster management plan.
7) PP to include water and carbon foot print monitoring in the EMP.
8) PP to submit hazardous chemical handling protocol
9) PP to inlcude impact of demolition activity in the EIA report.
10) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

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.

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for Proposed project for expansion in manufacturing capacity of existing products and addition of new products under the category of synthetic resins (under the activity of synthetic organic chemicals industry (5f) as per EIA notification of September 2006. The products (Synthetic Resins) are under Category Orange as per CPCB directions no. 8-29012l ESS(CPA)l 2015-16/ Dt. 07.03.2016) at existing unit of Supreme Petrochem Ltd, located at notified industrial zone, Village – Amdoshi-Wangani, Wakan-Roha

Is a Violation Case: No

1.Name of Project	Proposed project for expansion in manufacturing capacity of existing products and addition of new products under the category of synthetic resins (under the activity of synthetic organic chemicals industry (5f) as per EIA notification of September 2006. The products (Synthetic Resins) are under Category Orange as per CPCB directions no. 8-29012l ESS(CPA)l 2015-16/ Dt. 07.03.2016) in notified industrial zone at Village – Amdoshi-Wangani, Wakan-Roha Road, Taluka-Roha, District-Raigad, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Mr. K. V. Mujumdar Vice President Supreme Petrochem Ltd
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial - Manufacturing of synthetic resins
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in capacity of existing products with addition of new products
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No. As there was no expansion after EIA notification of Sep. 2006, it was not applicable.
8.Location of the project	Village Amdoshi/Wangani, Wakan-Roha Road, Tal. Roha, Dist. Raigad, Maharashtra 402106
9.Taluka	Roha, District: Raigad
10.Village	Amdoshi/Wangani
Correspondence Name:	Mr. K. V. Mujumdar – Vice President
Room Number:	Supreme Petrochem Ltd.
Floor:	--
Building Name:	--
Road/Street Name:	at Village Amdoshi/Wangani, Wakan-Roha Road, Tal. Roha, Dist. Raigad,
Locality:	Maharashtra 402106
City:	Nagothane
11.Area of the project	Notified industrial zone
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 251143
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	756886 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.):** 30767
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 30767
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 15-10-2018
19.Total ground coverage (m2)	97563

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12.89 %
21.Estimated cost of the project	9821800000

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)	9m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Yes. Existing manufacturing unit.
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	1. 1a. General Purpose Polystyrene (GPPS), High Impact Polystyrene (HIPS), Styrene Methyl Methacrylate (SMMA)	275000	200000	475000
2	1. 1b. Acrylonitrile Butadiene Styrene (ABS), Styrene Acrylonitrile (SAN), Polymethyl Methacrylate (PMMA)	0	200000	475000
3	2. Expandable Polystyrene (EPS)	50000	150000	200000
4	3. Extruded polystyrene (XPS)	10000	10000	20000

5	4. Specialty Grades/ Compounds/ Master Batches of Thermoplastics & Elastomers	40000	100000	140000
6	Total	375000	460000	835000
7	Total Combined Production of product 1a. and 1b. will be 475000 MTA	--	--	--

32.Total Water Requirement

Dry 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
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	34	7	41	7	1	8	27	6	33
Industrial Process	285	790	1075	4	9	13	281	781	1062
Cooling tower & thermopack	1248	1927	3175	889	1399	2288	359	528	887
Gardening	300	150	450	300	150	450	-	-	-
Fresh water requirement	1867	2874	4741	1200	1559	2759	667	1315	1982
Industrial Process	Recycle water = Evaporator Steam condensate + RO permeate	-	-	-	-	-	-	-	1348
Domestic	STP recycled water	-	33	-	-	-	-	-	-
Industrial Process	Total Recycle water	-	1381	-	-	-	-	-	-
Fresh water requirement	-	-	3360	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	Tank No.1, Size 2551 cum, quantity harvested 603 cum (from roof top) Tank No.2, Size 3000 cum, quantity harvested 3000 cum (surface water collection)
	Location of the RWH tank(s):	Tank No 1 – Raw water storage facility, Tank No 2 – Near ETP
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	Already existing
	Budgetary allocation (O & M cost) :	? 25000/Annum
	Details of UGT tanks if any :	No underground tanks

35.Storm water drainage	**Natural water drainage pattern:**	Adequate and separate storm water drains are already provided as per natural slopes.
	Quantity of storm water:	By considering maximum intensity 100 mm of rain fall per hour= 10284.8 m3/hr., 2.86 m3/s During monsoon storm water drain is diverted into a lagoon. Size of lagoon is 22.63 m X 45.25 m & effective depth of lagoon is 3m.
	Size of SWD:	Trapezoidal shape 2.5m X 2.5m X 0.4m

Sewage and Waste water	**Sewage generation in KLD:**	33 KLD
	STP technology:	STP comprising of conventional treatment process (Biological oxidation and tertiary treatment).
	Capacity of STP (CMD):	1 No. of 50 CMD
	Location & area of the STP:	Near existing ETP and area of STP is 90 m2
	Budgetary allocation (Capital cost):	? 40 Lakhs
	Budgetary allocation (O & M cost):	? 7.3 Lakhs/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Negligible
	Disposal of the construction waste debris:	Within premises in low lying area
Waste generation in the operation Phase:	**Dry waste:**	Hazardous Waste: • Spent Catalyst and molecular sieves (Spent Activated Alumina and Carbon Molecular sieves): 300 TPA • Empty (woven PP bags, paper) bags of additives: 80 TPA • Spent ion exchange resin containing toxic metal generated at softener unit: 1.0 TPA • ETP Sludge: 924 TPA • Filter bags / cloth: 45 TPA • Residual salts: 988 TPA • Spent carbon from ETP: 75 TPA • Insulation Waste: 40 TPA • Cotton Waste: 50 TPA • Process residue: 3317 TPA Non-Hazardous Waste: • Wooden Scrap: 650 TPA • Met
	Wet waste:	Hazardous Waste: • Used / Spent Oil from normal generation: 42 TPA • Used / Spent Oil from replacement of thermic fluid: 220 MT (once in three years) • Spent solvents: 1000 Lit/A • Spent acid from batteries: 100 Lit/A
	Hazardous waste:	• Spent Catalyst and molecular sieves (Spent Activated Alumina(from styrene purification) and Carbon Molecular sieves (from nitrogen plant): 300 TPA • Empty bags (woven PP bags, paper) of additives: 80 TPA • Spent ion exchange resin containing toxic metal generated at softener unit: 1 TPA • ETP Sludge: 924 TPA • Filter bags / cloth: 45 TPA • Residual salts: 988 TPA • Spent carbon from ETP: 75 TPA • Insulation Waste: 40 TPA • Cotton Waste: 50 TPA • Process residue: 3317 TPA • Used / Spent Oil f
	Biomedical waste (If applicable):	24 Kg/Annum
	STP Sludge (Dry sludge):	3 TPA, STP sludge will be used as manure within premises
	Others if any:	• E-waste = 8.3 TPA • Battery waste = 2.0 TPA
Mode of Disposal of waste:	**Dry waste:**	MPCB authorized waste recyclers and MPCB authorized E-Waste Recyclers
	Wet waste:	CHWTSDF/ Sale to authorized Recyclers
	Hazardous waste:	CHWTSDF / Sale to authorized Recyclers
	Biomedical waste (If applicable):	Bio medical Waste treated at common BMW Disposal facility Authorized by MPCB.
	STP Sludge (Dry sludge):	3 TPA, Manure for gardening
	Others if any:	MPCB authorized waste recyclers and authorized E-Waste Recyclers

Area requirement:	**Location(s):**	Near Process Plant and Near ETP
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 921.78 Sq. m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	? 240 Lakhs
	O & M cost:	? 1295 Lakhs/Annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Existing treatment-ETP 1	-	-	-	-
2	Parameters	Unit	Inlet To Primary	Inlet to Tertiary	Discharge
3	Flow	CMD	640	640	640
4	pH	-	5.5-6.5	7-7.5	7-7.5
5	BOD3,27ºC	mg/L	350-500	20-30	<100
6	COD	mg/L	750-1000	80-100	<250
7	TSS	mg/L	200-300	80-100	<100
8	TDS	mg/L	1400-1600	1400-1600	<2100
9	Proposed treatment - ETP 2	-	-	-	-
10	Parameters	Unit	Inlet To Primary	Inlet to Secondary	Inlet to Tertiary
11	Flow	CMD	781	781	781
12	pH	-	5.5-6.5	7.0-7.5	7.0-7.5
13	BOD3,27ºC	mg/L	350-500	300-450	20-30
14	COD	mg/L	750-1000	600-900	80-100
15	TSS	mg/L	200-300	80-100	80-100
16	TDS	mg/L	1500-1900	1500-1900	1500-1900
17	B) Reverse Osmosis	-	-	-	-
18	Parameters	Unit	Inlet To RO	Permeate	Reject
19	Flow	CMD	781+ 528 (from Utility blow down)=1309	1047	262
20	pH	-	7.0-7.5	7.0-7.5	7.0-7.5
21	COD	mg/L	80-100	<25	<500
22	TDS	mg/L	1500-1800	<100	7000-8500
23	C) Evaporators	-	-	-	-
24	Parameters	Unit	Reject From RO	Outlet From Evaporators	-
25	Flow	CMD	262	301 (262+39 steam condensate)	-
26	pH	-	7.0-7.5	7.0-7.5	-
27	COD	mg/L	<500	<100	-
28	TDS	mg/L	7000-8500	<100	-
Amount of effluent generation (CMD):		Existing – 640 CMD + Proposed 1309 CMD Total = 1949 CMD			

Capacity of the ETP:	Existing effluent of 640 CMD is being treated in ETP-1 of 752 CMD capacity & will be discharged as per MPCB consent on land for gardening during non-monsoon period and at Amba river estuary during monsoon period. Effluent from proposed activity will be separated out as organic process effluent and inorganic effluent from utilities (Cooling tower blow down etc) for separate treatment. 781 CMD from process along with other streams will be treated in proposed ETP-2 of 1000 CMD capacity separately.
Amount of treated effluent recycled :	1381 CMD
Amount of water send to the CETP:	Not Applicable, existing effluent of 640 CMD is being discharged as per MPCB consent on land for gardening during non-monsoon period and at Amba river estuary during monsoon period. Effluent from proposed expansion will be recycled and reused.
Membership of CETP (if require):	No.
Note on ETP technology to be used	Organic Trade Effluent from process of 781 CMD will be treated in primary treatment. Primary treated waste water will be subjected to biodegradation as secondary treatment. The outlet of the secondary treatment will be pumped to Pressure Sand Filter (PSF) followed by Activated Carbon Filter (ACF). Utility blow downs of 528 CMD will be treated in primary treatment. Primary treated utility blow downs along with Tertiary treated Organic Waste water will be pumped to UF followed by RO. RO permeate
Disposal of the ETP sludge	Chemical sludge for WWT = 924 MT/A, Residual Salts = 988 MT/A, Spent carbon = 75 MT/A will be sold to authorized parties/ disposed to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Catalyst and molecular sieves (Spent Activated Alumina and Carbon Molecular	1.6	TPA	200	100	300	Sale to Authorized Parties / CHWTSDF
2	Used / Spent Oil from normal generation	5.1	TPA	17	25	42	Sale to Registered Recyclers / Re-processers.
3	Used / Spent Oil from replacement of thermic fluid	5.1	MT (Once in three years)	110	110	220	Sale to Registered Recyclers / Re-processers.
4	Spent solvents	20.2	Lit/Annum	500	500	1000	Used for live fire drills / training at fire drill ground.
5	Empty bags (woven/PP/PE/Paper bags) of additives.	33.1	TPA	20	60	80	Sent to CHWTSDF
6	Spent ion exchange resin containing toxic metal generated at softener unit	35.2	TPA	0.2	0.8	1.0	Replenished / sent to supplier / Sent to CHWTSDF
7	ETP Sludge	35.3	TPA	30	894	924	Sent to CHWTSDF
8	Process residue	22.2	TPA	830	2487	3317	Sale to Authorized Parties / CHWTSDF
9	Filter bags / cloth	33.1	TPA	30	15	45	Sent to CHWTSDF
10	Evaporator salts	35.3	TPA	--	988	988	Sale to Authorized Parties / CHWTSDF

11	Spent carbon from ETP 36.2 TPA -- 75 75 Sale to Authorized Parties / CHWTSDF	36.2	TPA	--	75	75	Sale to Authorized Parties / CHWTSDF
12	Spent acid from batteries	36.3	Lit/Annum	50	50	100	Treated at ETP
13	Insulation Waste	-	TPA	20	20	40	Sent to CHWTSDF
14	Cotton Waste	33.2	TPA	25	25	50	Sent to CHWTSDF
15	Other waste	-	-	-	-	-	-
16	E-waste	Not Specified	TPA	2.8	5.5	8.3	MPCB authorized E-Waste Recyclers
17	Battery Waste	Not Specified	TPA	0	2.0	2.0	MPCB authorized Battery Recyclers
18	Bio-medical waste	Not Specified	TPA	0.012	0.012	0.024	Bio medical Waste treated at common BMW Disposal facility Authorized by MPCB.
19	Non- Hazardous waste	-	-	-	-	-	-
20	Wooden Scrap	Not Specified	TPA	450	200	650	Sale as Scrap
21	Metallic Scrap	Not Specified	TPA	15	400	415	Sale as Scrap
22	Non-metallic Scrap	Not Specified	TPA	85	200	285	Sale as Scrap
23	Paper	Not Specified	TPA	25	200	225	Sale as Scrap
24	Glassware	Not Specified	TPA	1	1	2	Sale as Scrap
25	Decontaminated containers / Carboys	Not Specified	Nos./ Annum	7000	8000	15000	Used for collection of in process samples / plantation / sale or sent to CHWTSDF
26	Ash from chimney cleaning / fire pit	Not Specified	TPA	11.5	10.53	22.03	Sent to CHWTSDF
27	STP sludge	Not Specified	TPA	--	3	3	Will be used as manure

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	Existing 3 no. of Thermic fluid heaters (Each of 1000000 Kcal/hr.)	FO: 6.80 TPD/ Hydrocarbon Purge: 1.80 TPD / LPG: 36 kg/day/ Natural Gas: 10002 KL/D	1	40m (combined for existing 3 nos. of thermic fluid heaters of 1000000 Kcal/hr. each & proposed thermic fluid heaters of 1300000 Kcal/hr.)	1	160 oC
2	Proposed: 1 new Thermic fluid heater (of capacity 1000000 Kcal/Hr.)	FO: 2.74 TPD/ Hydrocarbon Purge: 0.90 TPD/ LPG: 18 kg/day/ Natural Gas: 3281 KL/D	1	40m (combined for existing 3 nos. of thermic fluid heaters of 1000000 Kcal/hr. each & proposed thermic fluid heaters of 1300000 Kcal/hr.)	1	160 oC
3	Existing 1 no. of Thermic fluid heater (1300000 Kcal/hr.)	FO: 2.86 TPD/ Hydrocarbon Purge: 1.20 TPD/ LPG: 18 kg/day/ Natural Gas: 4722 KL/D	1	35 (Combined for existing 1 nos. of thermic fluid heater of 1300000 Kcal/hr. & proposed thermic fluid heater of 1300000 Kcal/hr.)	0.625	160 oC

4	Proposed: 1 new Thermic fluid heater (of capacity 1300000 Kcal/Hr.)	FO: 3.52 TPD/ Hydrocarbon Purge: 0.90 TPD / LPG: 18 kg/day/ Natural Gas: 4206 KL/D	1	35 (Combined for existing 1 nos. of thermic fluid heater of 1300000 Kcal/hr. & proposed thermic fluid heater of 1300000 Kcal/hr.)	0.625	160 oC
5	Existing Boiler (6.3 TPH)	FO: 13 TPD/ Natural Gas: 15342 KL/D	1	42	1.5	160 oC
6	Existing DG set (2.3 MW, 2880 KVA)	HSD: 88 Kg/Hr	1	36	1.0	160 oC
7	Existing Gas Engine (2.0 MW with WHRB)	Natural Gas: 14121 KL/D	1	32	0.56	150 oC
8	Existing Gas Engine (2.0 MW with WHRB)	Natural Gas: 14121 KL/D	1	32	0.56	150 oC
9	Existing DG set (1 MW, 1250 KVA)	HSD: 39 kg/hr.	1	7 m. above roof	0.25	160 oC
10	Proposed: Boiler (6.3 TPH)	FO: 13 TPD/ Natural Gas: 15460 KL/D	1	42	0.70	160 oC
11	Proposed: Boiler (3.0 TPH)	FO: 5.78 TPD/ Natural Gas: 6919 KL/D	1	35	1.5	160 oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO (TPD)	16	32	48
2	Hydrocarbon Purge (TPD)	3	2	5
3	LPG (Kg/D)	54	36	90
4	Natural Gas (KL/D)	50578	37595	88173
5	HSD (TPD)	3.04	0	3.04
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road & Through Pipeline		

43.Green Belt Development

Total RG area :	254600 Sq. m. (33.64% of total plot area)
No of trees to be cut :	Nil
Number of trees to be planted :	There are around 50000 nos. of trees and shrubs already planted at the site.
List of proposed native trees :	--
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 & CPP of 4.0 MW For CPP EC has already been obtained, dated 30th June 2012. Ref. no. SEAC-3012(1)/CR-12/TC2.
	During Construction Phase: (Demand Load)	100 KW (welding m/c, grinding m/c, drill m/c, concrete mixer, construction lift, power)
	DG set as Power back-up during construction phase	Existing DG sets of capacity 2.3 MW (2880 KVA) and 1 MW (1250 KVA) respectively will be used.
	During Operation phase (Connected load):	Existing connected load – 16654 KWh, Proposed connected load- 20570 KWh, Total connected load- 37224 KWh
	During Operation phase (Demand load):	Existing demand load-6500 KWh, Proposed demand load-8456 KWh, Total demand load-14956 KWh
	Transformer:	2 no. of 20 MVA each
	DG set as Power back-up during operation phase:	1 DG set of capacity 2.3 MW (2880 KVA) and 1 DG set of capacity 1 MW (1250 KVA), Proposed DG set – Nil
	Fuel used:	HSD 127 kg/hr. at full load
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

SPL proposes roof top solar system on following buildings: Main Substation/PS Control room/EPS Control Room/EPS Substation/ Ware house.
The total capacity proposed is Approx. 1000 KW

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Power	Approx. 1000 KW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Stack of adequate height	Stack of adequate height
Water	ETP	ETP, RO & Evaporator
Noise	Acoustic enclosure for DG set	Acoustic enclosures for high noise equipment
Solid Waste	Disposal to CHWTSDF	Disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	? 2289 Lakhs
	O & M cost:	? 3558.25 Lakhs /Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	2
2	Debris	Solid Waste	2
3	Construction equipment	Noise Pollution	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	Provision of stack	204	4.5
2	Water pollution control	Effluent Treatment Plant, RO & Evaporator	1516	2237
3	Noise pollution Control	Acoustic enclosure and regular maintenance	96	3.0
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	140	6.0
5	Environmental Monitoring Budget	Environmental Monitoring	83	3.75
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	240	1295
7	Green belt	Development & Maintenance	10	09
8	Total	--	2289	3558.25

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
Styrene Monomer	Liquid	Storage Tank	7985	7985	50273	Imported	By road
Pentane	Liquid	Storage Tank	240	240	1455	Indigenous	By road
Methyl Methacrylate	Liquid	Storage Tank	1000	1000	3636	Imported	By road

Ethyl Benzene	Liquid	Drums, In storage shed	16	16	86	Indigenous	By road
Ethyl Alcohol	Liquid	Drums, In storage shed	8	8	86	Indigenous	By road
R152a	Gas	Tonner, Cylinder	4.8	4.8	33	Indigenous	By road
DME (Di methyl Ether)	Liquid	Tonner, Cylinder	4.8	4.8	64	Indigenous	By road
Organic peroxide	Liquid	Carboys in shed	60	60	135	Indigenous	By road
Acrylonitrile	Liquid	Storage Tank	2000	2000	3636	Imported	By road
Toluene	Liquid	Tank/Drum	100	100	23	Indigenous	By road

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:	90887 Sq.m
	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):	9 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f) B1
	Court cases pending if any	Nil
	Other Relevant Informations	Nil

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	15-10-2018

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.

DECISION OF SEAC

The proposed project is located in the notified industrial zone declared by Urban Development Department vide Notification dated 4th July, 1992 at village Amdoshi and Wangani in Roha tehsil of Raigad Disrict. MoEF&CC issued draft Notification on Eco Sensitive areas of the Western ghat vide No. S.O. 5135 dated 03.10.2018 wherein the village Wangani is included in the eco sensitive area.

During deliberations, SEAC noticed that Ministry of Environment and Forest, New Delhi has issued Directions under Section 5 of the Environment (Protection) Act, 1986 dated 13.11.2013 and Office Memorandum dated 20.12.2013 regarding prohibition of activities in the area identified as Ecologically Sensitive Area (ESA) under the High Level Working Group (HLWG) formulated for Western Ghat by Ministry of Environment, Forest and Climate Change, Government of India, New Delhi.

The direction states as ;

"The following category of new and/or expansion projects/activities shall be prohibited in the Ecologically Sensitive Area (ESA) from date of issue of these directions (that is from 13.11.2013) except those cases which have been received by EAC/MoEF or SEAC/SEIAA before the date of putting HLWG report on the web site of the Ministry that is 14.04.2013 and which are pending with EAC/MoEF or SEAC/SEIAA. Such projects will be dealt under the guidelines and rules applicable at the time of application before the respective EAC/MoEF, SEAC/SEIAA. Apart from such cases, no pending case or any fresh case shall be considered by the EAC/MoEF or SEAC/SEIAA as from the date of issue of these directions."

1. Mining, quarrying and sand mining.

2. Thermal Power Plants.

3. Building and Construction projects of 20000 Sq.m. area and above.

4. Township and area development projects with an area of 50 ha and above and/or with built up area of 150000 Sq.m and above.

5. Red Category of Industries

The proposal under reference falls under orange category as per CPCB guidelines No. 8-29012/ESS (CPA)/2015-16 dated 07.03.2016. But PP has obtained prior Environment Clearance vide No. SEAC-3012 (M)/CR-12/TC-2 dated 30.06.2012 for 4 MW Gas Based captive power plant which falls under red category as mentioned in above serial no. 5.

In view of above SEAC is of the opinion that the expansion is proposed in the eco sensitive area (village Wangani) which is prohibited by Notification dated 13.11.2013.

Therefore, the proposal is referred to the SEIAA for guidance.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for Exapansion of Sugar from 4500 TCD to 5000 TCD and Co-gen 14.8MW to 18MW for Grant of ToR

Is a Violation Case: No

1.Name of Project	Saswadmali sugar Factory Ltd., A/P. Mallinagar, Tal. Malshiras, Dist. Solapur
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajendra G. Girme
4.Name of Consultant	Equinox Environments (I) Pvt. Ltd.
5.Type of project	Other-Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of Sugar (4500 TCD to 5000 TCD) & Co-gen unit (14.8 MW to 18 MW).
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	As per the provisions of "EIA Notification No. S.O. 1533 (E)" dated 14.09.2006 and amendments there to existing 4500 TCD sugar unit and 14.8 MW co-gen unit does not require EC . Existing unit has granted CTO and Copy of Valid CTO is enclosed as additional Attachment.
8.Location of the project	Malinagar, Tal.: Malshiras, Dist.: Solapur, M.S.
9.Taluka	Malshiras
10.Village	Malinagar
Correspondence Name:	Mr. Rajendra G. Girme
Room Number:	16
Floor:	Ground
Building Name:	Motibai Wadia Building
Road/Street Name:	Brevri Road
Locality:	Mumbai
City:	Mumbai
11.Area of the project	Other Area
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Refer 7/12 Extracts. refer additional attachment.
	Approved Built-up Area: 567670
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	2,71,021
16.Deductions	NA
17.Net Plot area	2,71,021
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 28-07-2014
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	191600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sugar Factory admin Building	0	5.00
2	Co-gen factory admin Building	0	5.00
3	Godown-10 Nos.	0	5.00

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Colony of 50 rooms is provided on site and about 100 workers residing there.
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	System of Fire tender is available Onsite.
29.Existing structure (s) if any	System of Fire tender is available Onsite.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	15525	1725	17250
2	Molasses (4%)	5400	600	6000
3	Bagasse (30%)	40500	4500	45000
4	Press Mud (4.5%)	6075	675	6750
5	Electricity	14.8 MW	3.2 MW	18 MW

32.Total Water Requirement

Dry season:	**Source of water**	Nira Canal
	Fresh water (CMD):	2
	Recycled water - Flushing (CMD):	5
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2580
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	Nira Canal
	Fresh water (CMD):	2
	Recycled water - Flushing (CMD):	5
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2580
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	5	2	7	2	1	3	3	1	4
Industrial Process	1377	145	1522	1197	130	1327	180	15	195
Cooling tower & thermopack	585	65	650	527	59	586	58	6	64

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	OE, Depth of GW level 5-10 m
	Size and no of RWH tank(s) and Quantity:	5000 m3 -1 No.
	Location of the RWH tank(s):	Near Admin Building
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	8 Lakhs
	Budgetary allocation (O & M cost) :	0.8 Lakhs
	Details of UGT tanks if any :	one UGT
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	4 KLPD
	STP technology:	Proposed STP
	Capacity of STP (CMD):	20 CMD
	Location & area of the STP:	In Proposed Plant
	Budgetary allocation (Capital cost):	15 Lakhs
	Budgetary allocation (O & M cost):	0.25 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	Boiler Ash- 500 MT/M
	Wet waste:	NA
	Hazardous waste:	ETP Sludge (Cat. No. 34.4) about 1.2 MT/Yr, Used Oil/ Spent Oil (Cat. No. 5.1 & 5.2) about 2.2 MT/Yr
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.002 MT/D
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	used as manure/ used in composting
	Wet waste:	NA
	Hazardous waste:	used as a mannure / generated burnt in boiler.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Mannure
	Others if any:	NA
Area requirement:	**Location(s):**	Malinagar, Tehsil: Malshiras, Dist.: Solapur (MS)
	Area for the storage of waste & other material:	Within Industrial Premises
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 895 Lakhs
	O & M cost:	Rs. 105 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	4-6	7-8	--
2	COD	mg/lit	2500-2800	<250	250
3	BOD	mg/lit	1000-1200	<100	100
4	TDS	mg/lit	1800-2200	<2100	2100

Amount of effluent generation (CMD):	410
Capacity of the ETP:	450
Amount of treated effluent recycled :	5 CMD
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Tertionary Treatment
Disposal of the ETP sludge	Composting

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	34.4	MT/Yr	1	0.2	1.2	Used as manure
2	Used Oil/ Spent Oil	5.1, 5.2	MT/Yr	2	0.2	2.2	Burnt in Boiler

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-90 TPH	Bagasse-915 MT/D	1	72	3	180
2	D.G. Set -1250KVA	Diesel- 250 lit/Hr.	1	5	0.5	--
3	D.G.Set-500 KVA (2 Nos.)	Diesel-60 Lit/Hr.	1	5	0.5	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasses	915 MT/D	--	915 MT/D
2	Diesel	310 Lit/Hr.	--	310 Lit/Hr.
41.Source of Fuel		Bagasses is Obtained from existing sugar factory and Diesel is purchased from outside party.		
42.Mode of Transportation of fuel to site		Diesel is transported by road through tankers.		

43.Green Belt Development	**Total RG area :**	10.84 Ha
	No of trees to be cut :	NA
	Number of trees to be planted :	8000
	List of proposed native trees :	1) Banyan tree, 2) Peepal, 3) Umber, 4) Tamarind, 5) Drumstick, 6) Babul, 7) Neem, 8) Jamun, 9) Mango
	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	Ficus beghalensis	Banyan tree	800	Fruit Bearing, Evergreen, Fast Growing
2	Ficus religiosa	Peepal	700	Indigeous, evergreen, fast growing, tolerant
3	Ficua recemosa	Umber	800	Indigeous, evergreen, fast growing, tolerant
4	Tamarandus indica	Tamarind	900	Indigeous, evergreen, fast growing, tolerant
5	Moringa oleifera	Drumstick	800	Indigeous, evergreen, fast growing, tolerant
6	Vachellia nilotica	Babul	900	Indigeous, evergreen, fast growing, tolerant
7	Azadirachta indica	Neem	1200	Indigeous, evergreen, fast growing, tolerant
8	Syzygium cumini	Jamun	1000	Indigeous, evergreen, fast growing, tolerant
9	Mangifera indica	Mango	900	Indigeous, evergreen, fast growing, tolerant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	met from own 14.8 MW co-gen
	During Construction Phase: (Demand Load)	as per requirement
	DG set as Power back-up during construction phase	as per requirement
	During Operation phase (Connected load):	14.8 MW
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
ESP	ESP	NA

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	APC Equipment for Boilers	ESP & Stack (Ht. 72M)	325	35
2	Water Pollution Control	ETP & CPU	400	40
3	Noise Pollution Control	Noise Pollution Control	35	5

4	Environmental Monitoring & Management	Environmental Monitoring & Management	10	5
5	Occupational Health and Safety	Occupational Health and Safety	30	5
6	Green Belt Development & Rain Water Harvesting	Green Belt Development & Rain Water Harvesting	75	10
7	Laboratory & Chemicals	Laboratory & Chemicals	20	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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	A case was filed by Mr. Nilkanth Raskar against Saswad Mali Sugar Factory Ltd., dated 26.05.2018. Same was in respect of excess alcohol production in 30 KLPD distillery unit. To regularize excess alcohol production, online Form I application submitted to EAC (Violation), MoEFCC, New Delhi on 31.03.2018. Subsequently, the case was considered in 8th EAC (Violation) meeting held on 14.06.2018 at MoEFCC, New Delhi. Refer Additional attachment for Minutes of meeting.
	Other Relevant Informations	Application in prescribed online format of Form-1 is submitted along with requisite Documents for Grant of ToR's.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable

Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(j)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

During deliberations, it is observd that, PP submitted application to the EAC, MoEF&CC under violation category which was considered in the 8th meeting of EAC held on 14.06.2018.

EAC, MoEF&CC observed that excess alcohol production was due to excess sugarcane crushing . EAC also stipulated folllwing condition in the observations and recommendations of the committee at Sr. No. (i) as below,

(i) The State Government/ SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986 , and further no consent to operate for expansion project to be issued till the proejct is granted EC for the expansion.

PP requested time to submit details regarding factual position with respect to the violation.

Hence deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for Proposed Capacity Expansion of Integrated Paint Manufacturing Facility at Lote Parshuram Industrial Area, MIDC, Tal: Khed, Dist.: Ratnagiri, Maharashtra

Is a Violation Case: No

1.Name of Project	Proposed Capacity Expansion of Integrated Paint Manufacturing Facility at Lote Parshuram Industrial Area, MIDC, Tal: Khed, Dist.: Ratnagiri, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Mr. Abhijit Natoo
4.Name of Consultant	Kadam Environmental Consultants, Vadodara, Gujarat
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC for Existing project is vide EC letter no.J-11011/296/2007-IA II (I) dated 25th October, 2007
8.Location of the project	F-1/2, F-2, F-3
9.Taluka	Khed
10.Village	Awashi
Correspondence Name:	Mr. Abhijit Natoo
Room Number:	10
Floor:	3rd Floor
Building Name:	Nerolac House
Road/Street Name:	Ganapatrao Kadam Marg
Locality:	Lower Parel
City:	Mumbai
11.Area of the project	Other Area- Industrial Estate
12.IOD/IOA/Concession/Plan Approval Number	MIDC, Lote Parshuram
	IOD/IOA/Concession/Plan Approval Number: MIDC/ ... / D-III/ L/Lote/4280; MIDC/LTP/F-3/PART/8406;
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	77347 m2
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.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 05-11-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	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)	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	Water based Paint	1000 KLPM	1083 KLPM	2083.33 KLPM
2	Paints	1900 MTPM	1016.66 MTPM	2916.66 MTPM
3	Resin	1500 MTPM	583.33 MTPM	2083.33 MTPM
4	Thinner	275 KLPM	391.66 KLPM	666.66 KLPM
5	Thermosetting Powder	650 MTPM	350 MTPM	1000 MTPM

32.Total Water Requirement

Dry season:	**Source of water**	MIDC, Lote Parshuram
	Fresh water (CMD):	315
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	37.5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	416
	Fire fighting - Underground water tank(CMD):	1200 KL
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	63
Wet season:	**Source of water**	MIDC, Lote Parshuram
	Fresh water (CMD):	315
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	37.5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	416
	Fire fighting - Underground water tank(CMD):	1200 KL
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	63
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	47	3	50	12	0.5	12	35	2.5	38
Industrial Process	100	90	190	71	63	134	29	27	56
Cooling tower & thermopack	75	46	121	63	43	112	6	3	9
Gardening	52	2.5	54.5	52	2.5	54.5	0	0	0

Fresh water requirement	205	110	315	135	77.5	212.5	70	32.5	102.5

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	It ranges from 15 to 20 m bgl
	Size and no of RWH tank(s) and Quantity:	It ranges from 15 to 20 m bgl
	Location of the RWH tank(s):	location is on layout map
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	18 Lakh
	Budgetary allocation (O & M cost) :	0.5Lakh
	Details of UGT tanks if any :	U/G storage tank: 2 nos. , 1200KL & 30 KL
35.Storm water drainage	**Natural water drainage pattern:**	towards SW direction
	Quantity of storm water:	91,559.53 m3
	Size of SWD:	1 m depth x 0.8 width
Sewage and Waste water	**Sewage generation in KLD:**	38 KLD after proposed expansion
	STP technology:	MBBR technology
	Capacity of STP (CMD):	1 no.; capacity:50KLD
	Location & area of the STP:	Near ETP, area: 40 m2
	Budgetary allocation (Capital cost):	20 Lakh
	Budgetary allocation (O & M cost):	12000/- per month

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	No construction activities are involved hence such waste generation is not envisaged
	Disposal of the construction waste debris:	No construction activities are involved hence generation and disposal of such wastes is not envisaged
Waste generation in the operation Phase:	**Dry waste:**	Wooden Scrap: 9.84 MTPM; Plastic bags: 0.74 MTPM; Paper bag:4.87 MTPM; MS Scrap: 22.15 MTPM; Misc Garbage: 27.73 MTPM; Gunny bag: 8.06 MTPM
	Wet waste:	Not Applicable
	Hazardous waste:	ETP sludge:5.65MTPM; Waste oil from ETP trap: 0.5 MTPM; Used/spent oil: 0.4 MTPM; solvent recovery residue/distillation sludge: 28 MTPM; Process waste & residue: 40.25 MTPM; Filter residue: 0.62 MTPM; cotton waste/ contaminated liner: 1 MTPM; MEE Salt: 1MTPM; Spent solvent: 17 MTPM; Discarded container/drum : 22 MTPM
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	75 Kg/day

Mode of Disposal of waste:	**Dry waste:**	sale to scrap dealer
	Wet waste:	Not Applicable
	Hazardous waste:	Sent to to CHWTSDF for landfilling & Sale to Authorised recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	as manure for gardening
	Others if any:	Boiler Ash - Sale to cement/ brick manufacturing
Area requirement:	**Location(s):**	Total Plot Area: 77347 m2
	Area for the storage of waste & other material:	6024 m2
	Area for machinery:	Processing Area: 17581 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	INR 250000
	O & M cost:	INR 1237943

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.6	7.3	5.5 - 9.0
2	Oil & Grease	mg/l	10	<0.1	10 max
3	BOD	mg/l	1117	14	100 max
4	TDS	mg/l	1130	260	2100 max
5	Suspended Solid	mg/l	572	11	100 max
6	COD	mg/l	3192	40	250 max
7	Chlorides	mg/l	15	11.8	600 max

Amount of effluent generation (CMD):	65 CMD
Capacity of the ETP:	ETP-1 : 85 CMD & ETP-2: 20 CMD
Amount of treated effluent recycled :	101 CMD
Amount of water send to the CETP:	Nil
Membership of CETP (if require):	Not required as zero liquid discharge
Note on ETP technology to be used	Note of ETP is given in Annexure of form 1 and Section 6.8 of Pre-feasibility report
Disposal of the ETP sludge	packed in bags and sent to CHW-TSDF Site at MIDC, Taloja.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	35.3	MT per Month	1.65	4	5.65	CHWTSDF
2	Waste oil from ETP trap (skimming residue)	34.4	MT per Month	0.15	0.35	0.5	CHWTSDF
3	Used/spent oil	5.1	MT per Month	0.1	0.3	0.4	Sale to Authorised recycler
4	Solvent recovery residue/distillation sludge	36.4	MT per Month	0.75	27.25	28	CHWTSDF

5	Process waste & residue	21.1	MT per Month	0.25	40	40.25	CHWTSDF
6	Filter residue	21.2	MT per Month	0.02	0.6	0.62	CHWTSDF
7	Cotton waste/ contaminated liner	33.1	MT per Month	0.73	0.27	1	CHWTSDF
8	MEE Salt	-	MT per Month	-	1	1	to CHWTSDF for landfilling
9	Spent solvent	20.1	MT per Month	-	17	17	Sale to Authorised recycler
10	Discarded container/drum	33.2	MT per Month	-	22	22	Sale to Authorised recycler

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	HSD, 34 Liter/hr	3	30	0.356	139 deg C
2	Boiler	HSD, 49 Liter/hr	2	30	0.356	134 deg C
3	Thermopac	HSD, 18 Liter/hr	2	30	0.356	144 deg C
4	Thermopac	HSD, 36 Liter/hr	1	30	0.356	146 deg C
5	Thermopac	Biofuel, 55 Ltr./hr	1	30	0.356	138 deg C
6	Thermopac	Biofuel, 91Ltr./hr	1	30	0.356	143 deg C
7	Thermopac	Briquette, 600 kg/hr	1	30	0.356	143 deg C
8	DG Set- 10 KVA	HSD, 1.8 Ltr./hr	1	3.6	0.051	225 deg C
9	DG Set- 250 KVA	HSD, 31 Ltr./hr	1	3.2	0.152	252 deg C
10	DG Set - 320 KVA	HSD, 40 Ltr./hr	1	3.6	0.102	334 deg C
11	DG Set - 500 KVA	HSD, 70 Ltr./hr	2	4.5	0.203	254 deg C
12	DG Set - 750 KVA	HSD, 100 Ltr./hr	3	8	0.254	249 deg C
13	Boiler (Additional), Capacity: 350 kg/hr	HSD, 21 Ltr./hr	3	30	0.25	134 deg C
14	Boiler (Additional), Capacity: 900 kg/hr	HSD, 50 Ltr./hr	1	30	0.35	134 deg C
15	stack attached to Resin scrubber	-	1	8	0.152	Ambient Temp
16	stack attached to Monomer scrubber	-	1	4.5	0.457	25 deg C
17	stack attached to Reactor vent	-	8	9	0.102; 0.202	35 deg C
18	stack attached to Fume extraction system in resin filtration area	-	2	2.3	0.076	Ambient Temp
19	stack attached to AMC in PC section	-	7	9, 12.5	0.203	Ambient Temp
20	stack attached to HSD, TSD	-	3	2, 10	0.152	Ambient Temp
21	stack attached to Ball mill powder charging	-	1	2.5	0.152	Ambient Temp

22	stack attached to Fume extraction system attached to mixer, solvent station, filling, etc.	-	21	2.5, 9	0.559	Ambient Temp

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD for Boilers (Lit/hr)	83	71	154
2	HSD for DG Sets (Lit/hr)	242.8	-	242.8
3	HSD for Thermopac (Lit/hr)	54	-	54
4	Biofuel for Thermopac (Lit/hr)	146	-	146
5	Briquette for Thermopac (kg/hr)	600	-	600
41.Source of Fuel		HSD:HPCL, Miraj Depot; Biofuel: Fine Agrochem, Solapur.; Briquette: Narmada Biofuels, Kolhapur		
42.Mode of Transportation of fuel to site		by road tankers, trucks		

43.Green Belt Development	**Total RG area :**	22285 m2
	No of trees to be cut :	NIL
	Number of trees to be planted :	NIL
	List of proposed native trees :	NIL
	Timeline for completion of plantation :	NIL

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	NA	NA	NA	NA
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra Electricity Supply Board (MESB)
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	8910 KW
	During Operation phase (Demand load):	2900 KVA
	Transformer:	1000 KVA (2 nos) ; 750 KVA (2 nos)
	DG set as Power back-up during operation phase:	The DG sets (1500 KVA -2 nos., 520 KVA-3 nos., 500 KVA- 1 no., and 320 KVA-2 nos.) are available in plant as a backup source in case of power failure
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Solar tube, LED lighting, Thermic fluid steam generator, Solar plant .
Saving: 5%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar tube, LED lighting, Thermic fluid steam generator, Solar plant	5%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Wet scrubber, Carbon filter, Dust collector, Stack with adequate height	Existing APC are adequate
Water	80 KLD ETP, 20 KLD ETP & 50 KLD STP	Adequate size of ETP and STP for additional pollution load
Noise	Acaustic Enclosours with DG sets	No additional DG set proposed
Solid Waste	Membership with CHW-TSDF , Taloja	same Membership with CHW-TSDF , Taloja

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1.75 crore
	O & M cost:	installed recently

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	Air Pollution Control	Installation of two new stacks of height 30 m for boilers	30	2
2	Air Pollution Control	Installation of Existing air pollution equipment	85	2.5
3	Air Pollution Control	Existing flue gas and process stacks	100	2.66
4	Water Pollution Control	existing ETP & STP	365	27.71
5	Noise Pollution Control	Acoustic Enclosures	-	0.7
6	Environment Monitoring and Management	air, noise, water quality monitoring	10	2.66
7	Occupational Health	Maintenace of OHC, Ambulance, medical check up	15	22.55
8	Green Belt	Tree plantation and maintenance	7.5	4.06
9	Solid Waste Management	Collection & storage area; membership Fees with CHW-TSDF & other authorised vendors / recyclers	2.5	12.38
10	CSR Activity	Activities undertaken as CSR; periodical Health/medical camps arrangement	32.5	3.25

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
Ammonia	Liquid	R.M.storage within plant premises	Carboys (30 kg): 50 nos.	1.5	2	supplier from various part of India	truck
Additive	Solid / Liquid	R.M.storage within plant premises	Barrels (200 kg) 6000 nos.	1200	2400	supplier from various part of India	truck
Biocides	Liquid	R.M.storage within plant premises	Carboys / Barrels (30 kg): 350 nos.	10.5	19	supplier from various part of India	truck
Solvent	Liquid	R.M.storage within plant premises	"U/g tanks: 15 Kl: 12 nos. Barrels: 200 liter: 400 nos. "	680	2350	supplier from various part of India	tanker
Monomer	Liquid	R.M.storage within plant premises	Barrels:(200 ltr) 400 nos.	80	160	supplier from various part of India	tanker

Pigment	Solid	R.M.storage within plant premises	bags: 25 kg: 17360 nos.	434	1100	supplier from various part of India	truck
TiO2 Powder	Solid	R.M.storage within plant premises	bags: 25 kg : 12800 nos.	320	810	supplier from various part of India	truck
Resin	Liquid	Resin storage area in plant	ST: 5T: 68 Nos. ST: 30T: 10 Nos. ST: 60T: 03 No.	820	2100	In-house production of captive consumption	through pipeline
Chemical	Liquid	R.M.storage within plant premises	drum/carboy: 30 Kg : 12000 Nos. Barrels: 200 Kg: 5000 Nos.	1360	2690	supplier from various part of India	truck
Vegetable Oils	Liquid	Oil Storage tank farm, block N	Tank: 30 KL : 4 Nos. Tank: 60 KL: 5 Nos.	420	1100	supplier from various part of India	tanker
Emulsion	Liquid	Emulsion storage tankfarm	ST: 30 KL: 7 Nos. Barrel: 200 kg: 750 Nos.	280	650	supplier from various part of India	tanker
Intermediate	Liquid	R.M.storage within plant premises	Drums: 25 Kg: 400 Nos. Barrel: 200 Kg: 250 nos.	60	200	supplier from various part of India	truck

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:	as per MIDC norms, 112 m2,
	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):	8 meter
	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	Schedule Activity 5 (h) & Category 'B'
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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

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

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

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

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

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

PP to submit certified copy of compliance of earlier EC No. J-11011/296/2007-IA.II(I) dated 25.10.2017from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to submit layout plan showing storm water drains, rain water harvesting facilities along with contour levels.
4) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc
5) 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.
6) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
7) PP to include hazardous waste collection, handling, storage and disposal plan in the EIA report.
8) PP to carry out HAZOP and QRA and submit disaster management plan.
9) PP to submit hazardous chemical handling protocol.
10) PP to include water and carbon foot print monitoring in the EMP.
11) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

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.

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for Modernization in Environmental Clearance for the unit 72-74 A,MIDC,Bhosari, Pune, Maharashtra by M/s. Century Enka Limited.

Is a Violation Case: No

1.Name of Project	M/s. Century Enka Limited
2.Type of institution	Private
3.Name of Project Proponent	S. Y. Agasimani
4.Name of Consultant	Green Solution
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization in Existing Environmental Clearance
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Prior EC obtained in 21st oct. 2005, and also amendment done on 13th July 2012
8.Location of the project	72-74 A,MIDC area, Bhosari
9.Taluka	Haveli
10.Village	Bhosari
Correspondence Name:	Mr. Amol H. Shaha
Room Number:	M/s. Century Enka Limited
Floor:	72-74 A
Building Name:	72-74 A
Road/Street Name:	MIDC
Locality:	Bhosari
City:	Pune
11.Area of the project	MIDC Bhosari
12.IOD/IOA/Concession/Plan Approval Number	MIDC Bhosari
	IOD/IOA/Concession/Plan Approval Number: 103-090-0
	Approved Built-up Area: 105012
13.Note on the initiated work (If applicable)	Prior EC obtained in 21st oct. 2005, and also amendment done on13th July 2012
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approved Factory plan
15.Total Plot Area (sq. m.)	151200 Sq.mt.
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.): 105012
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 01-01-1900
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	554400000

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)	20 meter
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	11 meter
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	Combined installed polymerization capacity of Nylon/polyester	2700	0	2700
2	Nylon/ polyester filament yarn, industrial yarn,tyre cord, tyre cord fabrics	2700	0	2700
3	Methanol I(By product)	625	0	625
4	Electricity Captive power generation	6 x 2	0	6 x 2

32.Total Water Requirement

Dry 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
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	700	0	700	140	0	140	560	0	560
Industrial Process	935	0	935	0	0	0	935	0	935
Cooling tower & thermopack	1665	0	1665	1581.5	0	1581.5	83.5	0	83.5

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Not Applicable
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Underground Fire Hydrant Tank- 1000 m3 and Process water storage tank - 2500 m3 is constructed
35.Storm water drainage	**Natural water drainage pattern:**	unit is in MIDC
	Quantity of storm water:	Not Applicable
	Size of SWD:	L 285 M X W 0.6 M X D 1.5 M and L 85 M X W 0.9M X D 1.5 M
Sewage and Waste water	**Sewage generation in KLD:**	560 m3/DAY
	STP technology:	-
	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:**	Project is for modernization, there is no Construction. Only change in Manufacturing process
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	100 kg /month
	Wet waste:	1200 kg /month
	Hazardous waste:	Details mentioned below
	Biomedical waste (If applicable):	50 gm/month
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Boiler ash

Mode of Disposal of waste:	**Dry waste:**	send to authorized re processor of PCMC
	Wet waste:	send to authorized re processor of PCMC
	Hazardous waste:	Send to CHWTSDF
	Biomedical waste (If applicable):	Disposed through YCM Hospital
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Sale to brick manufacturers/ landfill
Area requirement:	**Location(s):**	Outside area of Canteen
	Area for the storage of waste & other material:	100 sqm
	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	pH	-	7.5	7.43	5.5-9
2	SS	mg/lit	186	10	200
3	BOD	mg/lit	504	5-10	100
4	COD	mg/lit	1214	15-40	250
5	TDS	mg/lit	673	500-700	2100
6	Oil & Grease	mg/lit	14	<0.5	10

Amount of effluent generation (CMD):	1578.25
Capacity of the ETP:	2000
Amount of treated effluent recycled :	1578.25
Amount of water send to the CETP:	0
Membership of CETP (if require):	0
Note on ETP technology to be used	Primary, Secondary and Tertiary Technology
Disposal of the ETP sludge	sent to CHWTSDF, MEPL

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	used Oil/ Spent Oil	5.1	TPA	57.5	0	57.5	Sale to authorized reprocessor
2	Distillation residues	20.3	TPA	200	100	300	CHWTSDF, MEPL
3	Soot from fuel burning	36.2	TPA	15	0	15	CHWTSDF, MEPL
4	ETP Sludge	35.3	TPA	1000	0	1000	CHWTSDF, MEPL
5	Waste or Residues	23.1	TPA	0	36	36	CHWTSDF, MEPL

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	As project comes under modernization, As changes only in Manufacturing process	-	-	-	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	-	-	-
41.Source of Fuel		-		
42.Mode of Transportation of fuel to site		-		

43.Green Belt Development

Total RG area :	20234 sq.m
No of trees to be cut :	Not Applicable
Number of trees to be planted :	As project comes under modernization, plantation already done
List of proposed native trees :	As project comes under modernization, plantation already done
Timeline for completion of plantation :	As project comes under modernization, plantation already done

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	NA	NA	NA	NA
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	As project comes under modernization, As changes only in Manufacturing process
	During Construction Phase: (Demand Load)	As project comes under modernization, As changes only in Manufacturing process
	DG set as Power back-up during construction phase	As project comes under modernization, As changes only in Manufacturing process
	During Operation phase (Connected load):	As project comes under modernization, As changes only in Manufacturing process
	During Operation phase (Demand load):	As project comes under modernization, As changes only in Manufacturing process
	Transformer:	As project comes under modernization, As changes only in Manufacturing process
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

As project comes under modernization, changes only in Manufacturing process

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent and Sewage	Effluent Treatment Plant	-
5 no. of Boiler	ESP/ scrubber	-
DG Set	Acoustic Enclosure	-

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	0

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)

1	ETP	ETP	12500000	8500000
2	Environmental Monitoring	Environmental Monitoring	-	200000
3	Health & Safety	Health & Safety	-	5200000
4	Disposal of Hazardous waste	Disposal of Hazardous waste	-	13000000
5	Gardening	Gardening	-	2000000

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
Furnace Oil	Fuel for standby boiler & DG set	Near DG set & Boiler	1455	1455	375 MT/day	Indian oil/HPCL	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:**	NA
	Number and area of podia:	NA
	Total Parking area:	25391 sqm
	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):	9 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 (d)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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

PP has submitted their application for change in process. PP proposes to introdcue a process step of dipping by which the quantity of hazarodus waste will be incresed. There will be no increase in the production quantity.

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

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

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

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

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles..
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to submit layout plan showing internal roads, rainwater harvesting facilities along with contour levels.
4) PP to change the plot area in the consolidated statement.
5) PP to include seperate chapter on the impact of propsoed dipping activity and mitigation measures in the EIA and EMP reprot.
6) PP also to include impact of residential colony and proposed mitigation measures in the EIA and EMP report.
7) PP to submit structural stability certificate of existing buildings on site.
8) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
9) PP to incldue details of material balance of the propsoed dipping activity in the EIA report.
10) PP to carry out HAZOP and QRA and submit disaster management plan.
11) PP to include water and carbon foot print monitoring in the EMP.
12) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

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.

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-1 **Meeting Date** January 2, 2019

Subject: Environment Clearance for Proposed Manufacturing chemical unit of Ethyl propionate (120 MT/A) by M/s. Beetachem Industries

Is a Violation Case: No

1.Name of Project	Proposed Manufacturing chemical unit of Ethyl propionate (120 MT/A) by M/s. Beetachem Industries at Pawane , Thane, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Mr. Arun Surendra Rao
4.Name of Consultant	ABC Techno labs India Private Limited
5.Type of project	Not applicable
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	NA
8.Location of the project	Plot no. W-177, T T C Industrial Area, Thane Belapur Road, Navi mumbai
9.Taluka	Thane
10.Village	Pawane village
Correspondence Name:	Mr.Arun Surendra Rao
Room Number:	25
Floor:	Ground floor
Building Name:	Shireesh Co Op Hsg. Society
Road/Street Name:	Veer Savarkar Marg
Locality:	Mahim (West)
City:	Mumbai-400016
11.Area of the project	Navi Mumbai Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	700 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.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 29-10-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	9000000

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)	0
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	Methylal/Ethylal	120 MT/A	0	120
2	Methyl Formate/ Ethyl Formate	120 MT/A	0	120
3	Iso Propyl Acetate / Iso Propyl Formate	240 MT/A	0	240
4	Ethyl Acetate / Methyl Acetate	120 MT/A	0	120
5	Methyl Iso Butyl Carbinol	300 MT/A	0	300
6	Rectification/Purification of solvents from waste process under schedule I (Cat. No. 1.4/1.6/20.1/20.2/20.3/28.6) and all other categories from which solvent recovery is possible (Quantity to be filled -4000 MT/A)	3500 MT/A	0	3500
7	Copper Sulphate and Nickel Sulphate and process under schedule- I (cat no.1.7/17.2/18.1/35.2) (Quantity to be handled 250 MT/A)	150 MT/A	0	150

8	Ethyl Propionate	0	120 MT/A	120

32.Total Water Requirement

Dry season:	**Source of water**	TTC MIDC
	Fresh water (CMD):	5.35 KLD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	0.5 KLD
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5.35 KLD
	Fire fighting - Underground water tank(CMD):	50 KLD
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	TTC 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) :	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**
Industrial Process	3.55	0	3.55	1.45	0	1.45	1.6	0.5	2.1
Domestic	1.3	0	1.3	0.2	0	0.2	1.1	0	1.1
Gardening	0.5	0	0.5	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	Not applicable
	Quantity of storm water:	0
	Size of SWD:	0
Sewage and Waste water	**Sewage generation in KLD:**	1.3
	STP technology:	The generated Sewage will be disposed to soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	8 Kg per day
	Wet waste:	12 Kg per day
	Hazardous waste:	Total hazardous waste is 520.6 MT/A,
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Chemical sludge from ETP-10 MT/A, Sludge from treatment of waste water arising out of cleaning /disposal of barrels/ containers-2.50 MT/A
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	handed over to authorised vendor
	Wet waste:	compost
	Hazardous waste:	will be handed over to CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	will be handed over to CHWTSDF
	Others if any:	NA
Area requirement:	**Location(s):**	Nil
	Area for the storage of waste & other material:	0
	Area for machinery:	0
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	0

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	--	7.9	6.0 to 8.5
2	Oil and Grease	mg/l	--	6.0	10 mg/l
3	suspended solid	mg/l	--	40.0	100 mg/l
4	BOD	mg/l	--	44	30 mg/l
5	COD	mg/l	--	159	250 mg/l
6	TDS	mg/l	--	653	05 mg/l

Amount of effluent generation (CMD):	Trade Effluent-2.1
Capacity of the ETP:	5 KLD
Amount of treated effluent recycled :	No
Amount of water send to the CETP:	2.1
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Primary Treatment is given and after treatment , the generated effluent would be send it to CETP
Disposal of the ETP sludge	It would be used as manure

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Cu/Ni catalyst Molecular sieves (from petrochemical process)	1.6	MT/A	25	0	0	Sent to CHWTSDF
2	spent Cu/Ni Catalyst (from production of acid)	17.2	MT/A	25	0	0	Sent to CHWTSDF
3	spent Cu/Ni Catalyst (From production of nitrogenous & complex fertilizers)	18.1	MT/A	25	0	0	Sent to CHWTSDF

4	Spent Cu/Ni catalyst (from purification process of organic compounds /solvents)	36.1	MT/A	25	0	0	Sent to CHWTSDF
5	Organic Residues	1.4	MT/A	480	0.6	480.06	Sent to CHWTSDF
6	Still bottom from distillation Process	1.2	MT/A	480	0	0	Sent to CHWTSDF
7	contaminated Aromatic , Aliphatic or Naphenic solvents not fit for originally intended use.	20.1	MT/A	480	0	0	Sent to CHWTSDF
8	Spent Solvents,Distillation Residue	20.2,20.3	MT/A	480	0	0	Sent to CHWTSDF
9	Chemical sludge from ETP	35.3	MT/A	10	0	0	Sent to CHWTSDF
10	Chemical containing residue arising from decontamination	34.1	MT/A	2.50	0	0	Sent to CHWTSDF
11	Sludge from treatment of waste water arising out of cleaning /disposal of barrels/ containers	34.2	MT/A	2.50	0	0	Sent to 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	Thermic Heating System	PNG 15 kg/day	1	30.0	0	0
2	DG set	Diesel 100 lit/M	1	0	0	0

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development

Total RG area :	55 Sq. M.
No of trees to be cut :	NO
Number of trees to be planted :	0
List of proposed native trees :	0
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	nil	nil	nil	nil
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	nil	nil	nil

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	51 KVA
	During Operation phase (Demand load):	0
	Transformer:	NA
	DG set as Power back-up during operation phase:	125
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NIL	0

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent	primary treatment is done and after that effluent sent to CETP	--
sewage	treated in soak pit	--
Air emission	adequate stack is provided	--

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	0

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	0	NIL	0

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	air pollution control	1	0.5
2	solid waste	solid waste	0.3	0.1
3	environment monitoring and management	environment monitoring and management	1	0.5
4	occupational health	occupational health	0.5	1

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
flammable/ hazardous	Occupied	Underground	12 KL -2 Nos & 10 KL 1 Nos	50KL	200 MT	ARSS Bio Fual Pvt Ltd, Aroma Organic Ltd,	By Tanker/Drums

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	0
	Number and area of podia:	0
	Total Parking area:	0
	Area per car:	0
	Area per car:	0
	Number of 2-Wheelers as approved by competent authority:	0
	Number of 4-Wheelers as approved by competent authority:	0
	Public Transport:	Nil
	Width of all Internal roads (m):	0
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	schedule 5 (f) and category B
	Court cases pending if any	No
	Other Relevant Informations	NIL
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable

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

Brief information of the project by SEAC

PP submitted their application for the grant 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.

DECISION OF SEAC

PP requested to postpone the proposal.

Hence deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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