172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Environment Clearance of the Proposed 8500 MT/M of Ketene, Diketene & its derivatives production plant at Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri by M/s Laxmi Organic Industries Ltd.

Is a Violation Case: No

1.Name of Project	Proposed 8500 MT/M of Ketene, Diketene & its derivatives production plant at Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri by M/s Laxmi Organic Industries Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s Laxmi Organic Industries Ltd.
4.Name of Consultant	Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri , Maharashtra
9.Taluka	Khed
10.Village	Lote
Correspondence Name:	M/s. Laxmi Organic Industries Limited
Room Number:	3rd floor
Floor:	Third Floor
Building Name:	Chandermukhi
Road/Street Name:	nariman point
Locality:	Nariman Point
City:	Mumbai
11.Whether in Corporation / Municipal / other area	MIDC Lote Parshuram
12.IOD/IOA/Concession/Plan Approval Number	MIDC Layout Approval
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	104767 sqm
16.Deductions	0
17.Net Plot area	104767 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 38524
	b) Non FSI area (sq. m.): 715
	c) Total BUA area (sq. m.): 39239
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	33762
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32.22
21.Estimated cost of the project	4430000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Diketene Plant	G+4	27
2	Intermediate Plant	G+3	22
3	Diketene Plant Control room & MCC Room	G+2	17
4	INT Control room & MCC Room	G+2	17
5	Co-gen Power Plant	G+3	22
6	Producer gas Plant	G+3	22
7	Administration Block	G+2	15
8	GMP Plant	G+2	17
9	Effluent Treatment Plant (ETP)	Ground	7
10	Tank Farm (TF)1	Ground	7
11	TF2	Ground	7
12	TF3	Ground	7
13	Unloading Area	Ground	7
14	INT. Storage TF7	Ground	7
15	INT. Storage TF6	Ground	7
16	INT. Storage TF5	Ground	7
17	INT Storage TF4	Ground	7
18	Day Tank TF8	Ground	7
19	Day Tank TF9	Ground	7
20	CS2 Storage	Ground	7
21	Day Tank TF10	Ground	7
22	Chlorine and Ammonia Cylinder Storage	Ground	7
23	Warehouse	Ground	7
24	Semi Finish Warehouse	Ground	7
25	Furnace	Ground	7
26	Dimeriser	Ground	7
27	MCBrine	Ground	7
28	MCC Control room	Ground	7
29	Utility	Ground	7
30	Cooling Tower	Ground	7
31	Raw Water tank	Ground	7
32	Transformer room	Ground	7
33	Substation room	Ground	7
34	Stores	Ground	7
35	Coal Handling Plant	Ground	7
36	Coal Yard	Ground	7
37	Admin Building	Ground	7
38	Medical Room/Toilet blocks	Ground	7
39	INT. Utility	Ground	7

40	Hydrogenation Storage Area	Ground	7
41	Nitrogen storage plus PSA unit	Ground	7
42	Nitrogen storage plus PSA unit	Ground	7
43	Nitrogen storage plus PSA unit	Ground	7
44	Nitrogen storage plus PSA unit	Ground	7

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	min. 7.5 m
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	Monomethyl Acetoacetamide(MMAAA)	0	1000	1000
2	DIMETHYL ACETOACETAMIDE (DMAAA)/Di-Ethyl Acetoacetamide(DEAAA)	0	200	200
3	Oxamyl Oxime	0	50	50
4	Methyl Acetoacet Ester(MAAE)	0	850	850
5	Tertiary Butyal Acetoacet Ester(TBAAE) OR 2 –(Acetoacetoxy) Ethyl Methacrylate(AAEMA) and Ethyl Acetoacet Ester(EAAE)	0	150	150
6	Methyl 3-Amino Crotonate(M3AC)	0	50	50
7	2-Cyano Ethyl Acetoacet Ester(CEAAE)	0	20	20

8	Iso Propyl Acetoacet Ester(IPAA) OR Iso Butyl Acetoacet Ester(IBAA) OR Methoxy Ethyl Acetoacetate(MEAA) OR Cinnamyl Acetoacetate Ester(CAAE) OR Aceto Acet Allyl Ester(AAAE)	0	5	5
9	ACETOACETANILIDE(AAA) OR Acetoacet-m-xylidide (AAMX)	0	550	550
10	ACETOACET O ANISIDIDE (AAOA) OR ACETOACET O Toulidine (AAOT)	0	50	50
11	ACETOACET-O-CHLOROANILIDE (AAOCA) OR N-Acetoacetylsulfanilate potassium (AASp) and ACETOACET P ANISIDIDE(AAPA),	0	20	20
12	ACETOACET PARA CHLORO ORTHO ANISIDIDE (AAPCOA)OR CHLORO-DAEP OR 7 – ACETOACETOXY – 6 METHOXY – 2,3 – DIONE (C-dione)OR Anarso OR AMQD OR Naphthol AS G OR Acetoacet-2-Ethyl Hexyl Amide (ACAD) OR Lercandipine	0	5	5
13	Napthol AS IRG	0	200	200
14	5-Acetoacetyl benzimidazolone(5 AABI)	0	50	50
15	Diketene	0	1500	1500
16	Isopropenyl Acetate(IPNA)	0	100	100
17	Acetyl acetone (ACAC)	0	400	400
18	Calcium acetyl acetone	0	100	100
19	Propionic Anhyride	0	200	200
20	N- acetyl para amino phenol (paracetamol).	0	200	200
21	Trifluoromethyl acetophenone (TFMAP) OR Ethyl trifluroroacetoacetate (ETFAAE)	0	100	100
22	AAH	0	2000	2000
23	Ethyl 4 – Chloro Aceto Acetate(E4CAA)	0	100	100
24	MICA OR MAEM	0	100	100
25	Acesulphame K	0	100	100
26	2-isopropyl,4- methyl,6-hydroxypyrimidines (HOP)	0	50	50
27	1-Tolyl-3- methyl - 5-pyrazolone (p-TMP)	0	50	50
28	Cysteamine HCl	0	200	200
29	Methomyl oxime	0	100	100
30	Co-gen Power Plant	0	3MW	3MW

32.Total Water Requirement

Dry season:	**Source of water**	MIDC/ETP Treated Water
	Fresh water (CMD):	2036
	Recycled water - Flushing (CMD):	896 (Recycle Cooling tower and Process)
	Recycled water - Gardening (CMD):	157
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	3089
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	500
Wet season:	**Source of water**	MIDC/ETP Treated Water
	Fresh water (CMD):	2036
	Recycled water - Flushing (CMD):	896 (Recycle cooling tower and Process)
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2932
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	656
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	40	40	0	8	8	0	32	32
Industrial Process	0	1322	1322	0	0	0	0	1502	1502
Cooling tower & thermopack	0	1469	1469	0	1246	1246	0	223	223

Cooling tower & thermopack	0	100	100	0	1	1	0	99	99
Gardening	0	157	157	0	157	157	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2-3.1 m
	Size and no of RWH tank(s) and Quantity:	247 KLD (1 Nos)
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	0
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	20 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakhs
	Details of UGT tanks if any :	MIDC Water Storage Tank, Fire Fighting water storage tank
35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	4.1 m3/sec
	Size of SWD:	0.9 m x0.9 m
Sewage and Waste water	**Sewage generation in KLD:**	32
	STP technology:	Will be treated in ETP along with other effluent
	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:**	Approx. 19072 nos. of empty cement bags, 6.35 MT of steel scrap, 12.7 MT of aggregate waste, 1590 sq.m of broken tiles and 954 nos of Empty paint cans will be generated
	Disposal of the construction waste debris:	Cement bags, steel scrap and paint cans will be sold to recycler whereas aggregates and broken tiles will be reused within site for internal road levelling and terrace china mosaic.
Waste generation in the operation Phase:	**Dry waste:**	11 kg/d
	Wet waste:	27 kg/d
	Hazardous waste:	ETP sludge- Schedule I, Cat. 34.3= 5 T/month
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Process waste sludge- Schedule I, Cat. 26.1= 20 T/month

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized recyclers
	Wet waste:	Composting
	Hazardous waste:	Send to CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Send to CHWTSDF
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	20 Sq. M
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	3-5	6.5-7.5	6.5-7.5
2	COD	mg/l	20000	<250	250
3	BOD	mg/l	8750	70	100
4	TSS	mg/l	200	100	100
5	TDS	mg/l	8700	1800	2100
6	O&G	mg/l	22	5	10
7	Ammonical Nitrogen	mg/l	30	30	<50

Amount of effluent generation (CMD):	1724 KLD
Capacity of the ETP:	2000 KLD
Amount of treated effluent recycled :	1052 during non monsoon and 896 During Monsoon
Amount of water send to the CETP:	500 During Non Monsoon and 656 During Monsoon
Membership of CETP (if require):	IN process
Note on ETP technology to be used	The Effluent arising during process will be collected in equalization tank. Effluent from equalization tank sent to neutralization tanks where caustic slurry added to neutralize the effluent. Effluent from main neutralization tank will be sent to primary settling tank. The main objective of primary settling tank is solid liquid separation. Solids will be settled at the bottom of the tank and clear waste water then goes to UASB feed tank where Condensate collected from MEE (Multi Effect Evaporati
Disposal of the ETP sludge	ETP sludge- Schedule I, Cat. 34.3= 5 T/month will be send to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	34.3	T/Month	0	5	5	send to CHWTSDF
2	Process waste Sludge	26.1	T/Month	0	20	20	send 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	Attached to boiler 1(operating)	Coal 5300 kg/hr.	1	51	1.3	140oC
2	Attached to boiler 2 (Operating)	Coal 1750 kg/hr.	1	36	0.75	140oC
3	Attached to boiler 3(operating)	Coal 1750 kg/hr.	1	36	0.75	140oC
4	Attached to Furnace-1 (operating)	1) Coal for producer gas 1250kg/hr. 2) C-9 221kg/hr. 3) Hydrolyzed Residue 200 kg/hr	1	34	1.2	140oC
5	Attached to Furnace-2 (operating)	1) Coal for producer gas 1250kg/hr. 2) C-9 221kg/hr. 3) Hydrolyzed Residue 200 kg/hr.	1	34	1.2	140oC
6	Attached to Furnace-3 (operating)	Coal for producer gas 1250kg/hr. /C-9 221kg/hr.	1	34	1.2	140oC
7	Common Caustic scrubber (operating)	-	1	30	0.6	35oC
8	Common Caustic scrubber (operating)	-	1	30	0.2	30oC
9	Water Scrubber	-	1	10	0.2	30oC
10	DG set 1050 KVA (stand by)	Diesel	1	30	0.25	160oC
11	DG set 1050 KVA (stand by)	Diesel	1	30	0.25	160oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	0	12550 kg/hr.	12550 kg/hr.
2	C-9	0	663 kg/hr.	663 kg/hr.
3	Residue	0	400 kg/hr.	400 kg/hr.
4	Diesel	0	210kg/hr.	210kg/hr.
41.Source of Fuel		Coal- Import (Indonesian Coal) Diesel & other –Authorized vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	34325 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	1300
	List of proposed native trees :	Anthocephalus cadamba Saraca Asoca Mimusops elengi Erythrina variegate Bauhinia racemose Mangifera indica Syzygium cumini Eucalyptus citriodora Zanthoxylum rhetsa Alstonia scholaris Pongamia pinnata Bombax ceiba
	Timeline for completion of plantation :	before operation 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	Anthocephalus cadamba	Kadamb	100	an evergreen, tropical tree
2	Saraca Asoca	Sita Ashok	100	an evergreen tree
3	Mimusops elengi	Bakul	100	an evergreen and medicinal tree
4	Erythrina variegate	Pangara	50	an ornamental tree
5	Bauhinia racemose	Apta	100	medicinal tree
6	Mangifera indica	Mango	100	fruit bearing tree
7	Syzygium cumini	Jambhul	100	fruit bearing tree
8	Eucalyptus citriodora	Nilgiri	150	evergreen and magnificent trees, pest resistance.
9	Zanthoxylum rhetsa	Triphala	100	medicinal tree
10	Alstonia scholaris	Satwin	100	medicinal tree
11	Pongamia pinnata	Karanj	150	fast-growing, medium-sized, evergreen or briefly deciduous tree
12	Bombax ceiba	Savar	150	tall deciduous tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL/CPP
	During Construction Phase: (Demand Load)	500 KVA
	DG set as Power back-up during construction phase	500 KVA (1 DG Set)
	During Operation phase (Connected load):	20 MW
	During Operation phase (Demand load):	12.32 MW
	Transformer:	6 x 3 150 KVA
	DG set as Power back-up during operation phase:	2x1050KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar PV for Street Lightning (50KW)
Boiler Feed water heating by Solar (100 M3/Day from 30 0C to 70 0 C)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV for Street Lightning (50KW)	0.4%
2	Boiler Feed water heating by Solar (100 M3/Day from 30 0C to 70 0 C)	5%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Effluent (High COD/TDS)/Domestic Waste leading to Water pollution	NA	1. Effluent treatment consisting UASB (Up flow anaerobic sludge blanket reactor) followed by aerobic treatments (primary, secondary &tertiary treatment) for High COD effluent and Multi Effect Evaporator for High TDS effluent treatment. 2. RO (Reverse osmosis) treatment for Cooling tower and Boiler water blowdown. 3. The total waste water generated will be treated and recycled to the maximum extent and only the present consented quantity shall be sent to CETP
Vent gases/flue gases from Process plant, furnace, Boiler stack	NA	1. Two no's common caustic Scrubber system for acidic vents, 1 no. water scrubber for water soluble vents (ammonia, HCL etc.) which followed by caustic common scrubber. 2. Stack at sufficient height for furnace, boiler flue gases maintaining Sox, NOx norms of MPCB., ESP at Boiler to control dust in flue gases to 50mg/Nm3 3. DG exhaust will be discharged at stipulated height by providing adequate stack height to the DG sets. 4.Coal dust will be controlled by providing fogging and bag filters

From explosions, spillages, fires etc. from storage, handling, use or production of hazardous substances	NA	1. To avoid accidental spillage from storage tanks. Spillage barrier wells are provided. Specific areas earmarked for storage of hazardous waste. 2. The Fire-fighting system compatible to arrest the fire hazards. 3. Risk assessment and disaster management plan shall be prepared. Formation of Safety Department under Safety Officer to take care of Occupation, Hazard & Hygiene.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	140 Lakhs
	O & M cost:	7 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Generation (Air Pollution)	Dust Suppression through Water Sprinkling (SPM)	24
2	Health, safety & first aid facility	Health, safety & first aid facility	15
3	Sanitary facility and waste water management	Sanitary facility and waste water management	20
4	Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year)	Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year)	20

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Stack, pollution control equipment (scrubber),ESP at Boiler to control dust in flue gases to 50mg/Nm3	215	20
2	Water	ETP	2000	200
3	Soil	Landscape/green belt development	20	0.5
4	Noise	Acoustic Insulation	10	1
5	Energy	Energy conservation/ solar PV cost etc.	140	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
Acetic Acid	NA	TF1	1000	800	3087.5	Imported	Tanker
Acetic Acid	NA	TF1	1000	800	3087.5	Imported	Tanker
Methyl aceto acetate	NA	TF2	300	240	850	FG-Export/Local	Tanker/Drums

Monomethyl aceto acetamide	NA	TF2	300	240	1000	FG-Export/Local	Tanker
Acetic Anhyride	NA	TF3	300	240	1000	FG-Export/Local	Tanker/Drums
Acetic Anhyride	NA	TF3	300	240	1000	FG-Export/Local	Tanker/Drums
Crude Methyl aceto acetate	NA	TF3	300	240	1000	Intermediate	NA
Spare	NA	TF3	300	240	NA	Intermediate	NA
ETFAAE	NA	TF4	50	40	100	FG-Export/Local	Drums
Ethyl acetoacetate ester(EAAE)	NA	TF4	50	40	150	FG-Export/Local	Drums
E4CAA	NA	TF4	50	40	100	FG-Export/Local	Drums
DMAAA	NA	TF4	50	40	200	FG-Export/Local	Drums
AAEMA	NA	TF4	50	40	150	FG-Export/Local	Drums
Spare	NA	TF4	50	40	NA	Intermediate	NA
MICA	NA	TF4	50	40	100	FG-Export/Local	Drums
MAEM	NA	TF4	50	40	100	FG-Export/Local	Drums
Nitric Acid	NA	TF5	50	40	21.9	RM-Local	Tanker
Iso butric Acid	NA	TF5	50	40	29.7	RM-Local	Drums
Sulphuric Acid	NA	TF5	50	40	172	RM-Local	Tanker
Sodium Methyl Mercaptain	NA	TF5	50	40	556.5	RM-Local	Tanker
Bromine	NA	TF5	50	40	26	RM-Local	Tanker
Caustic	NA	TF5	50	40	380	RM-Local	Tanker
M-Xylidine	NA	TF6	50	40	341.6	RM-Import	Drums
O-Anisidine	NA	TF6	50	40	31.1	RM-Import	Drums
DMA	NA	TF6	50	40	94.6	RM-Local	Tanker
Hydroxyethyl)methacrylate	NA	TF6	50	40	93.8	RM-Import	Drums
Methylene Dichloride	NA	TF6	50	40	2330	RM-Local	Tanker
O-Toulidine	NA	TF6	50	40	33.2	RM-Import	Drums
AcAc	NA	TF7	100	80	200	FG-Export/Local	Drums
IPNA	NA	TF7	100	80	100	FG-Export/Local	Drums
TFMAP	NA	TF7	50	40	100	FG-Export/Local	Drums
Propionic Anhyddride	NA	TF7	50	40	200	FG-Export/Local	Drums
Triethyl Phosphate	NA	TF8	50	40	112.3	RM-Import	Drums
Diketene	NA	TF8	20	16	750	Intermediate	NA
Diket ene	NA	TF8	20	16	750	Intermediate	NA
Residue	NA	TF8	20	16	189	Intermediate	NA
Dil Acetic Acid	NA	TF9	100	80	3043	Intermediate	NA
Recovered Acetic Acid	NA	TF9	100	80	1208	Intermediate	NA
Acetone	NA	TF10	300	240	643.7	RM-Local/Import	Tanker
Methanol	NA	TF10	200	160	521	RM-Local	Tanker
C-9	NA	TF10	100	80	425	Fuel-Local	Tanker
N2 2 tanks	NA	TF10	10	8	500	RM-Local	Tanker
Ethanol	NA	TF10	50	40	125.85	RM-Local	Tanker
Cyclo-Hexane	NA	TF10	30	24	54.2	RM-Local/Import	Drums
Toluene	NA	TF10	30	24	72	RM-Local/Import	Drums
Carbon Disulfide	NA	TF10	20	16	141	RM-Local/Import	Drums

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	0
	Number and area of podia:	0
	Total Parking area:	12244 sq.m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	More than 10 km
	Category as per schedule of EIA Notification sheet	5(f)
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-12-2016

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
1.Name of Project	Proposed 8500 MT/M of Ketene, Diketene & its derivatives production plant at Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri by M/s Laxmi Organic Industries Ltd.	Manufacturing plant of Specialty Chemicals focused on Synthetic Organic Chemicals for Specialty Intermediates at the rate of of 8500 MT/M at Plot Area of 80,000 m at Plot no G - 60 MIDC Lote Parshurame, Khed, Ratnagiri by M/s Laxmi Organic Industries Ltd

8. Location of the project	Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri , Maharashtra	Plot no G - 60 MIDC Lote Parshurame, Khed, Ratnagiri, Maharashtra
15. Total Plot Area (sq. m.)	104767 sqm	80000 sqm
21. Estimated cost of the project:	Rs. 4430000000	Rs. 2750000000
22. Number of buildings & its configuration	Diketene Plant-(G+4), Intermediate Plant-(G+3), Diketene Plant Control room & MCC Room – (G+2), INT Control room & MCC Room-(G+2), Co-gen Power Plant-(G+3), Producer gas Plant-(G+3), Administration Block-(G+2), GMP Plant-(G+2), Effluent Treatment Plant (ETP)-(G), Tank Farm (TF)1-(G),TF2-(G), TF3-(G), Unloading Area-(G), INT. Storage TF7-(G), INT. Storage TF6-(G), INT. Storage TF5-(G), INT Storage TF4-(G), Day Tank TF8-(G), Day Tank TF9-(G), CS2 Storage-(G), Day Tank TF10-(G),, Chlorine and Ammonia Cylinder Storage-(G), Warehouse Semi Finish Warehouse-(G), Furnace-(G),, Dimeriser-(G), MCBrine-(G), MCC Control room-(G),Utility-(G),Cooling Tower-(G),Raw Water tank-(G),Transformer room-(G),Substation room Stores-(G),Coal Handling Plant Coal Yard-(G),Admin Building-(G),Medical Room/Toilet blocks-(G),INT. Utility-(G), Hydrogenation Storage Area -(G),Nitrogen storage plus PSA unit-(G),Nitrogen storage plus PSA unit-(G),Nitrogen storage plus PSA unit-(G),Nitrogen storage plus PSA unit-(G	MSEDCL point of supply (Ground), Fire water Tank -(Ground), Raw water tank (Ground),Boiler (G +1),Coal Yard (Ground),ECF Plant (G+1),BTF Plant (G+3),FA Plant (G+3), Plant office/MCC/DG/workshop (G+1), Engg. Stores (Ground), Engg. Stores (Ground) Cooling Tower (Ground), UtilityBuilding(Ground),Organic/Inorganic Storage (Ground),Chlorine Storage (Ground),Ware Houses (Ground),QA-QC Lab (Ground),CCoE (N2-Solvant-LDO) (Ground),Admin Office (G+2),Security/Weigh bridge/OHC (Ground),ETP (Ground),HF storage(Ground)
32. Production Details	Monomethyl Acetoacetamide(MMAAA)-1000 TPM, DIMETHYL ACETOACETAMIDE (DMAAA)/Di-Ethyl cetoacetamide(DEAAA)-200 TPM, Oxamyl Oxime-50TPM, Methyl Acetoacet Ester(MAAE)-850 TPM, Tertiary Butyal Acetoacet Ester(TBAAE) OR 2–(Acetoacetoxy) Ethyl Methacrylate(AAEMA) and Ethyl Acetoacet Ester(EAAE)- 150 TPM, Methyl 3-Amino Crotonate(M3AC)-50 TPM, 2-Cyano Ethyl Acetoacet Ester(CEAAE)-20 TPM, Iso Propyl Acetoacet Ester(IPAA) OR Iso Butyl Acetoacet Ester(IBAA) OR Methoxy Ethyl Acetoacetate(MEAA) OR Cinnamyl Acetoacetate Ester(CAAE) OR Aceto Acet Allyl Ester(AAAE)-5TPM, ACETOACETANILIDE(AAA) OR Acetoacet-m-xylidide (AAMX)-550TPM, ACETOACET O ANISIDIDE (AAOA) OR ACETOACET O Toulidine (AAOT)-50 TPM, ACETOACET-O-CHLOROANILIDE (AAOCA) OR N- 20 TPM	Organic Fluoro specialties: 4-chlorobenzotrifluoride -400 TPM, 4-chloro-3,5-dinitrobenzotrifluoride- 250TPM, 2,4-dichloro-3,5 dinitrobenzotrifluoride- 120TPM, 3,4-dichlorobenzotrifluoride-100 TPM, 1,3-bis (trifluoromethyl) benzene- 90 TPM, 2,(trifluoromethyl) benzamide-90TPM, 4,4 –difluorobenzophenon- 90 TPM, 4- chloro-3-nitrobenzotrifluoride- 50 TPM, 2,2-difluoro-1,3- benzodioxole- 40 TPM, Methyl3-(trifluoromethyl)benzoate- 30 TPM, 2-chloro-6-fluorobenzyl chloride-30 TPM, Potassium nonaflourobutane sulphate- 15 TPM, 3-florobenzotrifluoride- 10 TPM, Perflourotripropylamine- 4 TPM, Potassiumdecakis(fluoranyl)- penta-1 TPM, In Organic Products: Dilute hydrochloric acid-5800 TPM, Dilute sulphuric acid-550 TPM, Dilute hydrofluoric acid-120 TPM, Sodium hypochlorite solution-360 TPM, Calcium chloride solution-350 TPM
32. Total Water Requirement-	Dry season: Fresh water: 2036 m3/day Recycled water - Flushing (CMD): 896 m3/day (Recycle Cooling tower and Process) Recycled water -157 m3/day Total Water Requirement (CMD) 3089 m3/day Excess treated water: 500 m3/day	Dry Season: Fresh water: 2529 m3/day Recycled water - Flushing (CMD): 792 m3/day (Recycle Cooling tower and Process) Recycled water -158 m3/day Total Water Requirement (CMD) 2529 m3/day Excess treated water: 500 m3/day

32. Total Water Requirement-	Wet Season; Fresh Water : 2036 m3/day Recycled water - Flushing (CMD): 896 m3/day (Recycle Cooling tower and Process) Recycled water gardening -157 m3/day Total Water Requirement (CMD) 3089 m3/day Excess treated water: 500 m3/day	Wet Season: Fresh water: 2529 m3/day Recycled water - Flushing (CMD): 792 m3/day (Recycle Cooling tower and Process) Recycled water gardening : 00 m3/day Total Water Requirement (CMD) 2371 m3/day Excess treated water: 658 m3/day
36. Sewage and Waste water	32 KLD	10 KLD
37. Solid waste Management: Waste generation in the operation Phase:	Dry waste: 11 kg/d Wet waste: 27 kg/d	Dry waste: 20 kg/d Wet waste: 30 kg/d
37. Solid waste Management: Waste generation in the operation Phase:	Others if any: Process waste sludge- Schedule I, Cat. 26.1= 20 T/month	Others if any: Process waste sludge- Schedule I, Cat. 26.1= 11 T/month
38. Effluent Characteristics	COD-Inlet-20000 mg/l, outlet-<250 mg/l, effluent discharge -250 mg/l	COD-Inlet-5000 mg/l, outlet-250 mg/l , effluent discharge -250 mg/l
38. Effluent Characteristics	BOD-Inlet-8750 mg/l, outlet-70 mg/l, effluent discharge -100 mg/l	BOD-Inlet-2000 mg/l, outlet-100 mg/l , effluent discharge -100 mg/l
38. Effluent Characteristics	TDS-Inlet-8700 mg/l, outlet-1800 mg/l, effluent discharge -2100 mg/l	TDS-Inlet-3000 mg/l, outlet-2000 mg/l , effluent discharge -2100 mg/l
38. Effluent Characteristics	Capacity of the ETP:2000KLD	Capacity of the ETP:1500KLD
38. Effluent Characteristics	Amount of treated effluent recycled: 1052 during non monsoon and 896 During Monsoon	Amount of treated effluent recycled: 950 during non monsoon and 792 During Monsoon
38. Effluent Characteristics	Amount of water send to the CETP: 500 During Non Monsoon and 656 During Monsoon	Amount of water send to the CETP: 500 During Non Monsoon and 658 During Monsoon
39. Hazardous Waste Details	Process waste Sludge-20TPM- send to CHWTSDF	Process waste Sludge-11TPM- send to CHWTSDF
41. Details of Fuel to be used	Coal-12550 kg/hr. C-9-663 kg/hr. Residue- 400 kg/hr. Diesel-210kg/hr	Coal-100 kg/hr. C-9-15 kg/hr. Residue- 11 kg/hr. Diesel-210kg/hr.
42. Source of Fuel	Coal- Import (Indonesian Coal) Diesel & other –Authorized vendors	Coal- Import Diesel & other –Authorized vendors
44.Green Belt Development	Total RG area : 34325 sqm Number of trees to be planted :1300 Nos.	Total RG area : 26411 sqm Number of trees to be planted :1100 Nos.
48. Energy	During Operation phase (Connected load):20 MW	During Operation phase (Connected load):9 MW
48. Energy	During Operation phase (Demand load):12.32 MW	During Operation phase (Demand load):6 MW
48. Energy	Transformer: 6 x 3 150 KVA	Transformer: 6MVA
48. Energy	DG set as Power back-up: 2x1050KVA	DG set as Power back-up: 3 x630KVA
51. Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	1) Air- Capital cost Rs. 215 Lakhs, O&M cost-Rs. 20 Lakhs 2) Water- Capital cost Rs. 2000 Lakhs, O&M cost-Rs. 200 Lakhs	1) Air- Capital cost Rs. 150 Lakhs, O&M cost-Rs. 15 Lakhs 2) Water- Capital cost Rs. 215 Lakhs, O&M cost-Rs. 20 Lakhs

52. Storages of Chemicals	Acetic Acid - 3087.5MTM Acetic Acid-3087.5MTM Methyl aceto acetate-850 MTM Monomethyl aceto acetamide -1000 MTM Acetic Anhyride-1000MTM Acetic Anhyride 1000 MTM Crude Methyl aceto acetate-1000MTM, Spare NAETFAAE 100MTM, Ethyl acetoacetate ester(EAAE) -150 MTM, E4CAA- 100MTM, DMAAA- 200 MTM, AAEMA-150MTM, Spare NA MICA- 100MTM, MAEM- 100MTM, Nitric Acid- 21.9 MTM, Iso butric Acid- 29.7 MTM Sulphuric Acid- 172 MTM, Sodium Methyl Mercaptain 556.5MTM Bromine 26 MTM, Caustic 380 MTM, M-Xylidine- 341.6 MTM O-Anisidine 31.1 MTM, DMA-94.6 MTM, Hydroxyethyl)methacrylate -93.8 MTM Methylene Dichloride 2330 MTM O-Toulidine-33.2 MTM, AcAc- 200 MTM, IPNA-100 MTM,TFMAP-100 MTM, Propionic Anhyddride- 200 MTM, Triethyl Phosphate-112.3 MTM, Diketene750 MTM, Diket ene 750 MTM, Residue-189 MTM Hydroxyethyl)methacrylate -93.8 MTM, Methylene Dichloride 2330 MTM, O-Toulidine-33.2 MTM, AcAc- 200 MTM, IPNA-100 MTM,TFMAP-100 MTM, Propionic Anhyddride- 200 MTM, Triethyl Phosphate-112.3 MTM, Diketene750 MTM, Diket ene 750 MTM, Residue-189 MTM, Dil Acetic Acid -3043 MTM, Recovered Acetic Acid- 1208 MTM, Acetone-643.7 MTM, Methanol- 521 MTM, C-9-425 MTM, N2 2 tanks- 500 MTM, Ethanol-125.85 MTM Cyclo-Hexane- 54.2 MTM, Toluene-72 MTM, Carbon Disulfide-141 MTM	PCT-150 MTM, HF-80 MTM, Nitric Acid- 150 MTM, Oleum-150 MTM, 2,4 DCT- 20 MTM, MX-20 MTM, OX-20 MTM, NH4OH-25 MTM, 3TC-20 MTM, Methanol-06 MTM, 3FT-20 MTM FB-20 MTM, 2C6FT-20 MTM, BDO-20 MTM, Sulphonate-20 MTM, KHQ Flakes- 10 MTM, Chlorine-123 MTM

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.

The proposal was considered in the 159th A meeting of SEAC-1 held on 01.02.2019 wherein the proposal was referred to the SEIAA for the confirmation of following views of the SEAC-1.

" *During deliberations it was noticed that, PP proposes to manufacture the intermediates which are used in the manufacturing of pesticides also.*

The schedule attached to the EIA Notification, 2006 under item 5(b) stipualtes the manufacturing of pesticide and pesticide specific intermediates (excluding formulations) and all such units fall in category "A" which needs to be appraised by EAC, MoEF&CC, New Delhi.

In view of above, SEAC is of the opinion that, the proposed project is covered under category "A" and PP may apply to the EAC, MoEF&CC for obtaining prior Environment Clearance.

Hence, SEAC-1 decided to refer the proposal to the SEIAA for the confirmation of above view. "

The SEIAA considered the proposal in their 165th meeting held on 25.04.2019 and decided as below,

" SEIAA asked PP to submit clarification from NEERI/NCL/Institute of Chemical Technology if the proposed products falls in the cateogory of synthetic organic chemical or pesticides. PP submitted clarification regarding regarding the same on Day-2 of the meeting.

SEIAA decided to refer back the proposal to SEAC-1 for further appraisal."

The proposal was considered in the 166th meeting of SEAC-1 wherein ToR was grnated to the PP. The details of the deliberations are as below,

Now PP submitted report obtianed from the Institute of Chemical Technology, Mumbai dated 26.04.2019 whcih clearly mentions that the following three products are used as raw materials in agrochemicals. These are "pesticide Specific Intermediates" as they are mainly used in pesticide manufacture.

1. 2-Isopropyl-4-methyl-6-hydroxypyrimidines (HOP)

2. Oxamyl oxime (OXOM)

3. Methomyl oxime

As per EIA Notification ,2006 these products fall under categry 5(b) of the schedule attached.

During deliberations, PP committed that, they will not manufacture above three products in their propsoed plot and requestd to consider the proposal for the grant of ToR for other products falling under category 5(f) of the schedule attached to EIA Notification, 2006.

In view of above SEAC-1 appraised the proposal for the grant of ToR. 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.

Now PP submitted letter requesting amendment in the ToR.

DECISION OF SEAC

During deliberations, PP infomred that, they have not yet obtianed possession of plot No.60/1 and wanted to remove the plot from ToR grnated in 166th meeting. PP also informed that, all the products propsoed earleir may be repalced with new products.

After detailed discussion with the PP and their accredited consultant, SEAC-1 advised PP to apply a fresh on the PARIVESH portal for ToR to which PP agreed.

In view of above, SEAC-1 decided to recommend the proposal for rejection to the SEIAA.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of association/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 plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.
4) PP to submit an undertaking for not violating any requirements of EIA Notification, 2006 amended from time to time.
5) PP to submit indemnity bond for not manufacturing the products fall under category 5(b) of the schedule attached to the EIA Notification, 2006.
6) PP to carry out comparative assessment study for the selection of fuel for boiler that is coal, briquettes and furnace oil.
7) PP to carry out life cycle analysis of all the products manufactured on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.
8) 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.
9) PP to include detailed water balance calculations along with design details of effluent treatment plant
10) PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.
11) PP to carry out HAZOP and QRA and submit disaster management plan.
12) PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.
13) PP to include water and carbon foot print monitoring in the EMP.
14) PP to submit hazardous chemical handling protocol
15) 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.
16) PP to make necessary changes in the consolidated statement by removing above mentioned three products and ensure that information submitted in the CS is in consonance with the Form-1/2 and EIA /EMP report..

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Proposed establishment of Synthetic Organic Chemical manufacturing facility

Is a Violation Case: No

1.Name of Project	Proposed establishment of Synthetic Organic Chemical manufacturing facility at Plot No B29, Additional Lote Parshuram MIDC, Tal. Khed, Dist: Ratnagiri
2.Type of institution	Private
3.Name of Project Proponent	Shree Pushkar Chemicals and Fertilizers Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Synthetic Organic Chemical Manufacturing Industry
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. B-29, Additional Lote Parshuram MIDC
9.Taluka	Khed
10.Village	Lote
11.Whether in Corporation / Municipal / other area	Additional MIDC Lote Parshuram, Dist Ratnagiri
12.IOD/IOA/Concession/Plan Approval Number	Not appicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No, Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Industrial Plot Area - 40,000 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.): Not applicable
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	720000000

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	Reactive Dyes	0	12,000 TPA	12,000 TPA
2	H-Acid	0	3,000 TPA	3,000 TPA
3	Vinyl Sulphone ester	0	5,000 TPA	5,000 TPA
4	Phthalocyanine Pigments (Crude CPC Blue – 5400 TPA, Alpha blue – 900 TPA, Beta Blue – 600 TPA, Pigment Green -7 – 900 TPA)	0	7,800 TPA	7,800 TPA
5	Copper Sulfide (By - Product)	0	48 TPA	48 TPA
6	Ammonium Sulphate (By - Product)	0	3000 TPA	3000 TPA
7	HYPO(Sodium Hypo Chlorite NaOCl) (By - Product)	0	12 TPA	12 TPA
8	Copper (By - Product)	0	24 TPA	24 TPA
9	Poly Aluminum Chloride (PAC) (By - Product)	0	900 TPA	900 TPA

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	0	12	12	0	4	4	0	8	8
Cooling tower & thermopack	0	360	360	0	85	85	0	275	275
Industrial Process	0	35	35	0	10	10	0	25	25
Gardening	0	5	5	0	5	5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	will be furnish in EIA
	Size and no of RWH tank(s) and Quantity:	will be furnish in EIA
	Location of the RWH tank(s):	will be furnish in EIA
	Quantity of recharge pits:	will be furnish in EIA
	Size of recharge pits :	will be furnish in EIA
	Budgetary allocation (Capital cost) :	will be furnish in EIA
	Budgetary allocation (O & M cost) :	will be furnish in EIA
	Details of UGT tanks if any :	Under ground tank will be provided for water storage. Details will be submit in EIA.
35.Storm water drainage	**Natural water drainage pattern:**	will be provide in EIA
	Quantity of storm water:	will be provide in EIA
	Size of SWD:	will be provide in EIA
Sewage and Waste water	**Sewage generation in KLD:**	8 cmd
	STP technology:	Will be furnish during EIA
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Nil
	Budgetary allocation (O & M cost):	Nil
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris , iron scrap, paint drums, waste insulation etc.
	Disposal of the construction waste debris:	Will be disposed as per norms.
Waste generation in the operation Phase:	**Dry waste:**	Fly ash: 13 TPD , Lagging waste: 300 kg/month, Iron scrap : 400 kg/month
	Wet waste:	Not Applicable
	Hazardous waste:	Details are provided in Sr. No. 42 below
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Fly Ash - Sold to brick manufacturer/ sent for landfilling , Lagging waste, Iron scrap to Authorized Recycler
	Wet waste:	Not Applicable
	Hazardous waste:	Disposal of Hazardous Waste as per MPCB / CPCB norms. (details are provided Point No. 42 below
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	The proposed project site is at additional Lote Parshuram MIDC. The plot is in allotted by MIDC
	Area for the storage of waste & other material:	designated storage area within the plant site.
	Area for machinery:	will be provided in EIA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	will be provided in EIA
	O & M cost:	will be provided in EIA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	2 – 6.0	6.5 – 8.00	5.5-9.0
2	Oil & Grease	mg/l	20	8 - 10	10
3	BOD	mg/l	500 - 600	50 - 100	100
4	TDS	mg/l	6000	1000 -2100	2100
5	Suspended Solids	mg/l	200	50 - 100	100
6	COD	mg/l	1000-1200	250	250
7	Chloride	mg/l	1000	400-600	600
8	Sulphate	mg/l	2000800	1000	1000

Amount of effluent generation (CMD):	308 cmd
Capacity of the ETP:	350 m3
Amount of treated effluent recycled :	258 cmd
Amount of water send to the CETP:	50 cmd
Membership of CETP (if require):	Yes, we will apply for membership of lote parshuram CETP shortly.
Note on ETP technology to be used	Effluent treatment comprising of Primary, Secondary & Tertiary treatment system followed by Multiple effect evaporator.
Disposal of the ETP sludge	ETP sludge about 200 TPM is disposed at CHWTSDF Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil	5.1	TPM	0	16	16	Authorized reprocesser/CHWTSDF Taloja
2	Process residue Spray Dryer	21.1	TPM	0	50	50	CHWTSDF Taloja

3	Process residue Pigment Plant	21.1	TPM	0	25	25	CHWTSDF Taloja
4	Gypsum	26.1	TPM	0	1500	1500	Cement manufacturers
5	Iron sludge	26.1	TPM	0	400	400	CHWTSDF Taloja
6	Drums/ Barrels	33.1	No.PM	0	500	500	Cleaned and Reused a site
7	ETP sludge	35.3	TPM	0	200	200	CHWTSDF Taloja

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	Boilers : 1 No x 6 TPH steam capacity each	Coal - 26 TPD	1	As per norms	Will be provide in EIA	Will be provide in EIA
2	Thermic Fluid Heater : 1 No x 3 Lac kcal/hr capacity each	Coal - 2.5 TPD	1	As per norms	Will be provide in EIA	Will be provide in EIA
3	Hot air Generators	Coal - 24 TPD	1	As per norms	Will be provide in EIA	Will be provide in EIA
4	DG Set - 500 MW (Emergency use only)	HSD : 125 Litres/hr	1	As per norms	Will be provide in EIA	Will be provide in EIA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal - (Boiler , Thermic Fluid Heater, Hot Air Generator)	0	52.5 TPD	52.5 TPD
2	HSD (DG Set - 500 MW) (Emergency use only)	0	125Litres/hr	125Litres/hr
41.Source of Fuel		Coal - Imported , HSD - From local supplier		
42.Mode of Transportation of fuel to site		Mode of transport to site is by road truck/tankers.		

43.Green Belt Development	**Total RG area :**	As per MIDC norms
	No of trees to be cut :	Nil
	Number of trees to be planted :	As per MIDC norms
	List of proposed native trees :	Will be provided as as per norms
	Timeline for completion of plantation :	during construction activity

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	Will be provided in EIA	Will be provided in EIA	Will be provided in EIA	Will be provided in EIA
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	Will be provided in EIA	Will be provided in EIA	Will be provided in EIA

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	500 KW
	DG set as Power back-up during construction phase	500 KW
	During Operation phase (Connected load):	1250 KW
	During Operation phase (Demand load):	1250 KW
	Transformer:	details will be provided in EIA
	DG set as Power back-up during operation phase:	500 KW
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Will be provide in EIA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Will be provide in EIA	Will be provide in EIA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution (Boiler, TFH, Hot Air Generator , DG Set)	Not Applicable	Adequate Stack Height with control measure as per CPCB Guidelines will be provided.
Water Pollution (Process, Utilities, Domestic)	Not Applicable	Adequate capacity of ETP.
Noise Pollution	Not Applicable	Acoustic enclosure, PPE

Hazardous Waste	Not Applicable	to authorized Solvent Recovery unit, to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Will be provide in EIA
	O & M cost:	Will be provide in EIA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Will be provide in EIA	Will be provide in EIA	Will be provide in EIA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Will be provide in EIA	Will be provide in EIA	Will be provide in EIA	Will be provide in EIA

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
Hydrochloric Acid	Proposed	within plant site	25 KL	25 KL	5	nearby source	Mode of transport to site is by road truck/tankers.
Nitric Acid	Proposed	within plant site	60 KL	60 KL	190	nearby source	Mode of transport to site is by road truck/tankers.
Aniline	Proposed	within plant site	50 KL	50 KL	415	nearby source	Mode of transport to site is by road truck/tankers.
Acetic Acid	Proposed	within plant site	15 KL	15 KL	300	nearby source	Mode of transport to site is by road truck/tankers.
Caustic Lye	Proposed	within plant site	30 KL	30 KL	420	nearby source	Mode of transport to site is by road truck/tankers.
Ethylene Oxide	Proposed	within plant site	10 KL	10 KL	125	nearby source	Mode of transport to site is by road truck/tankers.
Spent Sulphuric acid	Proposed	within plant site	150 KL	150 KL	360	nearby source	Mode of transport to site is by road truck/tankers.
Lime slurry	Proposed	within plant site	15 KL	15 KL	360	nearby source	Mode of transport to site is by road truck/tankers.

Solvent	Proposed	within plant site	15 KL	15 KL	2	nearby source	Mode of transport to site is by road truck/tankers.

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	min. 6 mtrs
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable as project is located in Lote, MIDC Industrial Area.
	Category as per schedule of EIA Notification sheet	B, since plot is part of notified industrial area.
	Court cases pending if any	No, Not Applicable
	Other Relevant Informations	This Consolidated Statement is for TOR purpose.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	28-04-2017

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.

The ToR was grnated to the PP in the 152nd meeting of SEAC-1. The details of the deliberations are as below,

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.

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

DECISION OF SEAC

During deliberations, PP informed that, MIDC earlier alloted plot No. B-29, Additional Lote Parshuram MIDC area, Taluka Khed District Ratnagiri on which ToR was grnated to them. Now MIDC in not allowing to develop chemical industries in that area due to objections of the people.

Now, PP purchased new plot of M/s Apex Brewarage having No. D-10, MIDC, Lote having an area of 34408 Sq.meters.

PP requested SEAC - 1 to transfer the ToR obtianed earleir for plot No. B-29 to the new Plot No. D-10.

After detailed deliberations with the PP and their accredited consultant, SEAC-1 was of the opinion that, as the plot area chanegd PP needs to apply a fresh on PARIVESH web site for the grant of ToR. The earlier ToR cannot be transferred on the new industrial plot.

Hence, SEAC-1 advised PP to apply a fresh for the grnat of ToR on PARIVESH web site to which PP agreed.

In view of above, SEAC-1 decided to recommend the proposal for rejection to the SEIAA.

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 entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc.
3) 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.
4) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
5) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
6) PP to submit hazardous chemical handling protocol.
7) PP to submit design details of strom water drains and rain water harvesting plan.
8) PP to provide obstacle free access to all manufacturing, storage area and submit revised drawing showing access road details.
9) PP to prvide 5 meter wide green belt all around the boundary of the proposed site.
10) PP to inlcude detailed water balance calculations in the EIA reprot along with generation of waste water and its treatment and dispsoal plan.
11) PP to submit details of storagea and dispsoal of non hazardous waste like Iron scrap, packing waste with specical mention to the fly ash as the generation is very huge and hazardous waste.
12) PP to submit an undertaking for not having any eco sensitive area in the range of 5 KM from proposed project site.
13) PP to provide lightening arrestor

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Proposed Additional Liquid Cargo Jetty with capacity of 4.5 MTPA at JNPT

Is a Violation Case: No

1.Name of Project	Proposed Additional Liquid Cargo Jetty with capacity of 4.5 MTPA at JNPT
2.Type of institution	Private
3.Name of Project Proponent	Jawaharlal Nehru Port Trust
4.Name of Consultant	TATA Consulting Engineers Ltd
5.Type of project	Others (Cat- 'B' Construction of foreshore facilities)
6.New project/expansion in existing project/modernization/diversification in existing project	This project is for providing additional jetty for existing Liquid Cargo Jetty with capacity of 4.5 MTPA
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environment Clearance for previous project is obtained vied letter No. PD/260181498-PDZ (CRZ) Dated: 10th November 1998
8.Location of the project	NA, The project area falls under the notified water limits of JNPT which is located in District Raigad, Navi Mumbai, Maharashtra
9.Taluka	Uran
10.Village	Sheva
Correspondence Name:	Sri. S.V. Madabhavi, Chief Manager, PDD, JNPT
Room Number:	CM Chamber
Floor:	Second Floor
Building Name:	JNPT Administrative Building
Road/Street Name:	JNPT Road
Locality:	Sheva
City:	Uran
11.Whether in Corporation / Municipal / other area	NA, The proposed project is an offshore structure and the project area falls under the notified water limits of JNPT - Area of proposed Activities, liquid jetty for berthing of Vessel (300m X 55m =16500 sq.m) plue fire fighting Pumping Station (49m X 20m= 980 sq.m)
12.IOD/IOA/Concession/Plan Approval Number	NA, The proposed project of additional liquid jetty Cargo is an offshore structure and hence IOD/IOA/Concession document is not applicable
	IOD/IOA/Concession/Plan Approval Number: NA, The proposed project of additional liquid jetty Cargo is an offshore structure and hence IOD/IOA/Concession approval number is not applicable
	Approved Built-up Area: 20500
13.Note on the initiated work (If applicable)	NA, No construction work has been initiated on site. DPR including necessary studies is prepared for the proposed project.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA, The proposed project of additional liquid jetty Cargo is an offshore structure and hence LOI/NOC/IOD is not applicable.
15.Total Plot Area (sq. m.)	17500 sq. m
16.Deductions	NA, The proposed project of additional liquid jetty Cargo is an offshore structure and not building construction activity hence deduction is not applicable.
17.Net Plot area	17500 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA, The proposed project of additional liquid jetty Cargo is an offshore structure and not building construction activity hence FSI area is not applicable.
	b) Non FSI area (sq. m.): NA, The proposed project of additional liquid jetty Cargo is an offshore structure and not building construction activity hence Non-FSI area is not applicable.
	c) Total BUA area (sq. m.): 20500
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA, The proposed project of additional liquid jetty Cargo is an offshore structure and not building construction activity hence Non-FSI area is not applicable
	Approved Non FSI area (sq. m.): NA, The proposed project of additional liquid jetty Cargo is an offshore structure and not building construction activity hence Non-FSI area is not applicable.
	Date of Approval: 26-11-2018

19.Total ground coverage (m2)	NA, The proposed project is an offshore structure and will be build on piled structure- liquid jetty for berthing of Vessel (300m X 55m =16500 sq.m) plus fire fighting pumping Station (49m X 20m= 980 sq.m)
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not Applicable
21.Estimated cost of the project	3091000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Offshore Jetty	Pilling Deck Structure only at +7m CD.	7 m
2	Fire Fighting Facility	4 floor	19.6 m

23.Number of tenants and shops	Proposed project is for liquid Cargo Jetty and will not have any permanant tenant and shop. Manpower for the operation of the project is 50 nos.
24.Number of expected residents / users	NA, The proposed project of additional jetty cargo is an offshore structure and not building construction activity. Manpower for the operation of the project is 50 nos.
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)	There will be a 6 meter wide road for approach to the jetty.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	The fire fighting facility is provided as per OISD norms and are automatic & monitored from adjoining towers.
29.Existing structure (s) if any	JNPT is handling the liquid cargo at existing liquid bulk terminal with twin side berthing terminal (LB1/LB2) and additional dolphins. This terminal has capacity of 6.5 MTPA.
30.Details of the demolition with disposal (If applicable)	There will be no demoliation activities involved in this project as the project is offshore and will be constructed on piled deck.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Proposed project is Liquid Cargo jetty for loading / unloading Liquid Cargo. No material production is envisaged.	Existing capacity of handling cargo is 6.5 MTPA	Proposed facility of handling cargo is 4.5 MTPA	11.0 MTPA

32.Total Water Requirement

Dry season:	**Source of water**	From JNPT water supply main
	Fresh water (CMD):	(50 x 45 lit) 2.25 CMD (Domestic Consumption)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2.25 CMD
	Fire fighting - Underground water tank(CMD):	Sea water- 1200m3/hr fire fighting form the five stations located within 150 meter jetty. (No underground Tank)
	Fire fighting - Overhead water tank(CMD):	No overhead tank (Sea water used for firefighting)
	Excess treated water	Not applicable
Wet season:	**Source of water**	From JNPT water supply main
	Fresh water (CMD):	(50 x 45 lit) 2.25 CMD (Domestic Consumption)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2.25 CMD
	Fire fighting - Underground water tank(CMD):	Sea water- 1200m3/hr fire fighting form the five stations located within 150 meter jetty. (No underground Tank)
	Fire fighting - Overhead water tank(CMD):	No overhead tank (Sea water used for firefighting)
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable- Proposed project is a liquid Cargo Jetty.	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	4	2.25	6.25	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	The proposed project of additional liquid jetty Cargo is an offshore structure hence rainwater harvesting is not proposed in the project area.
	Size and no of RWH tank(s) and Quantity:	In deck open to flow of water.
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	NOT APPLICABLE- Proposed project is of additional liquid Cargo Jetty is an offshore structure hence no UGT is proposed.
35.Storm water drainage	**Natural water drainage pattern:**	The proposed project of additional liquid jetty cargo is an offshore structure on deck and open to flow water.
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	No STP is proposed at the project location instead smart toilets will be provided and sewage generated will be transferref to JNPTs existing 4 MLD STP.
	STP technology:	Not Applicable
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Contruction phase- Dredge material Quantity 0.2 million cu m. Hazardous waste is not generated as there are no production activities involved but waste like Used oil from DG sets, Absorbent pad/cotton rag will be generated.
	Disposal of the construction waste debris:	Disposal of dredge material (0.2 millon cu m) at designated dumping site DS-3. Waste generated like Used oil from DG sets, Absorbent pad/cotton rag will be handed over to MPCB authorised vendor.
Waste generation in the operation Phase:	**Dry waste:**	50 gm X 50= 2.5 kg/ day
	Wet waste:	50 gm x 50= 2.5 kg/day
	Hazardous waste:	5 kg/month (Absorbent Pad/ Cotton rag), DG set oil 40 lit every six months as a maintenance activity.
	Biomedical waste (If applicable):	NOT APPLICABLE
	STP Sludge (Dry sludge):	NOT APPLICABLE. Minor additional amount will be generated in the proposed project for which smart toilets will be installed. The amount generated will be treated in the existing STP.
	Others if any:	NOT APPLICABLE

Mode of Disposal of waste:	**Dry waste:**	Disposal of the dry waste collected from the dustbins will be transferred to existing waste collection area of JNPT.
	Wet waste:	Disposal of the wet waste collected from the dustbins will be transferred to existing waste collection area of JNPT and will be used for composting.
	Hazardous waste:	Hazardous waste will be handed over to MPCB authorized vendor for disposal.
	Biomedical waste (If applicable):	No bio-medical waste generated.
	STP Sludge (Dry sludge):	Used in gardening. Minor additional amount will be generated in the proposed project for which smart toilets will be installed. The amount generated will be treated in the existing STP. Dry sludge from the STP is used in the gardening in the JNPT area.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Not Applicable
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	In addition to existing solidwaste management facilities dustbins will be installed at project site for which capital cost is estimated 2 lakhs.
	O & M cost:	For waste disposal and house keeping 2.40 lakhs and for maintenance of dustbins 1 lakh rupees are proposed.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

1	Negligible quantity of waste (1-2 litre) is collected in tray & discharge into plastic drum and reintroduced into pipeline before pigging operation to transfer that into tank farm. Around 5 Kg of absorbent pad/cotton rag will be generated. Also 40 lit of oil from DG set will be generated each six month.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Handed over to MPCB authorized vendor

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	DG set 320 kVA	Diesel	1	4	NA	NA
2	DG set 125kVA (5 sets)	Diesel	5	4	NA	NA
3	DG set 63kVA (6 sets)	Diesel	6	4	NA	NA
4	DG set 160 kVA (2 sets)	Diesel	2	NA	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	60 Litre	120 Litre	180 Litre
41.Source of Fuel		BPCL Petrol Pump		
42.Mode of Transportation of fuel to site		In container		

43.Green Belt Development	**Total RG area :**	No RG area is planned for the proposed project as the project is an offshore structure.
	No of trees to be cut :	Not Applicable. No tree cutting is envisaged for the proposed project as the project is an offshore structure.
	Number of trees to be planted :	Not Applicable. No tree plantation is envisaged for the proposed project as the project is an offshore structure.
	List of proposed native trees :	Not Applicable. No tree plantation is envisaged for the proposed project as the project is an offshore structure. But JNPT has already planted and is maintaining trees in its jurisdiction. Trees planted are as follows: Moringa pterygosperma, Pongamia glabra, Ficus hispida, Cassia siamaea, thespesia populnea, Azadirecta india etc.
	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	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	Not Applicable	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Required power supply will be supplied through port's power grid.
	During Construction Phase: (Demand Load)	Construction phase power supply by DG sets.
	DG set as Power back-up during construction phase	DG 320 kVA & 125 kVA (5 Sets) & 63 kVA (6 sets)
	During Operation phase (Connected load):	33 KW
	During Operation phase (Demand load):	852.8 kVA
	Transformer:	2 x 1000 kVA
	DG set as Power back-up during operation phase:	2 x 160 kVA Power back-up.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No high tension line passing through the plot.

48.Energy saving by non-conventional method:

It is proposed to install solar panel at the project area to generate 0.8 kW of energy.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar panels	0.8 kW (0.03 %)

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Quality	Continous Air quality monitoring is being carried out by JNPT along with measures like water sprinkling, shrouding etc.	Continous Air quality monitoring will be carried out by JNPT along with measures like water sprinkling, shrouding etc. Construction material will be transported in the covered vehicles to avoid spillage.
Water Quality	Continous water quality monitoring is being carried out.	Continues water quality monitoring will be carried out.
Sediment Quality	Continous water quality monitoring is being carried out for the quality of sediment.	Dredged sediment will be disposed off at designated site.
Noise quality	Continuous monitoring. Using maintained equipments and machinary, using acaustic enclosures. Providing PPEs	Continuous monitoring. Using maintained equipments and machinary, using acaustic enclosures. Providing PPEs

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1 Lakh
	O & M cost:	0.5 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Quality Monitoring	As per CPCB norms	20
2	Meterology	Wind (Direction, Speed), Temperature, humidity, Solar radiation etc.	03
3	Water	As per CPCB norms	01
4	Soil	As per CPCB norms	02
5	Noise	As per CPCB norms	1.50
6	Marine Water & Sediment	As per EPA Norms of Water category 4	21.50
7	Capacity Building	Training, Workshop & Miscellaneous	01
8	Solid Waste Management	Solid waste management & Dustbins	02

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Salary of Environmental Engineers	2 Nos.	-	7
2	Documentation Assistants	1 No.	-	2
3	Support Staff	1 No.	-	6
4	Waste Disposal & House keeping	-	-	2.40
5	Maintenance of dustbin	Repair & Replacment	-	1
6	Awareness Campaigns	Training	-	15
7	Statutary compliance for environmental protection	Environmental monitoring (marine)	-	24.7

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

Storage capacity addition is not envisaged for this project because existing tank form capacity is sufficient for storage of chemical of proposed project.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	This site is located in offshore and connection is only for operation purpose. No general traffic is envisaged.
Parking details:	**Number and area of basement:**	NOT APPLICABLE
	Number and area of podia:	NOT APPLICABLE
	Total Parking area:	NOT APPLICABLE
	Area per car:	NOT APPLICABLE
	Area per car:	NOT APPLICABLE
	Number of 2-Wheelers as approved by competent authority:	NOT APPLICABLE
	Number of 4-Wheelers as approved by competent authority:	NOT APPLICABLE
	Public Transport:	NOT APPLICABLE
	Width of all Internal roads (m):	NOT APPLICABLE
	CRZ/ RRZ clearance obtain, if any:	CRZ Clearance was granted by MCZMA on 23.07.2019 vied file number SEIAA-EC0000001874
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Elephanta Caves within 2.5KM , Karnala Bird Sanctuary at bout 20 km.
	Category as per schedule of EIA Notification sheet	7 (e) Port, Harbours, Breakwaters, Dredging
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. At few places in the study area the concentration of PM10 & 2.5 found exceeded; PP to prepare plan to bring it down within permissible limits.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes to provide smart toilets and transfer the sewage from site to their existing STP for treatment.
Drainage pattern of the project	Not Applicable .
Ground water parameters	Not Applicable .
Solid Waste Management	PP has committed to dispose all kinds of solid and hazardous wastes as per prevailing rules and by obtaining requisite permission from the Competent Authority.
Air Quality & Noise Level issues	At few places in the study area the concentration of PM10 & 2.5 found exceeded; PP to prepare plan to bring it down within permissible limits. PP to take utmost care to maintain the standard permissible limits of noise levels.
Energy Management	The maximum energy demand will be 852.8 kVA which will be supplied through grid. PP proposes 5 Nos. of 320 kVA & 6 Nos. of 63 kVA DG set during construction phase and 2Nos. of 160 kVA DG set during operation phase. PP to ensure to provided acoustic enclosure to all the DG sets.
Traffic circulation system and risk assessment	PP to provide adequate width road for smooth movement of vehicles during normal and emergency situations.
Landscape Plan	Not Applicable
Disaster management system and risk assessment	PP prepared Disaster Management Plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 51 Lakh EMP cost during construction phase, Rs. 60.10 Lakhs as recurring cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	PP shall limit proposed development activities subject to the approval obtained from the MCZMA.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 7(e)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 150th meeting of SEAC-1 held on 04.05.2018 wherein the ToR was granted to the PP for the preparation on EIA/EMP reprot along with following additional ToR points.

The proposed project is to handle 4.5 Million Ton/Annum Liquid Cargo Jeety construction at JNPT in addition to the existing 6.5 MTPA.

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.

PP to carry out Public Consultation as per procedure stipulated in the EIA NOtification,2006 along with point wise compliance of all the issues raised during Public Consultation.

1. PP to submit layout plan showing width of jetty, locations of pipelines, Fire Fighting Equipment etc.

2. PP to obtain CRZ clearance from MCZMA and submit copy.

3. PP submit list of activities to be carried out in proposed project.

4. PP to initiate cradle to grave life cycle analysis to identify the potential damage to the environment due to proposed project.

5. PP to include detailed impact of proposed project on the marine environment along with mitigation measures.

6. PP to submit an undertaking for not cutting any mangroves, disturbing any breeding grounds of birds, fishes etc.

7. PP to carry out Risk Assessment with respect to the Fire , leakages handling etc. and submit Disaster Management Plan.

8. PP to ensure that no waste water shall be discharged into the sea either by proposed activity or by the visiting cargoes.

9. 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.

The proposal was considered in the 168th B meeting of SEAC-1 held on 18.09.2019 wherein the proposal was deferred till submission of comliance of following points,

1. PP to include detailed procedure/protocol for loading and unloading of the material in proposed activity along with proposed mitigation measures.

2. PP to implement OISD norms to ensure safety at proposed project.

3. PP to include detailed list of activities to be carried out in the proposed project as approved by the MCZMA in the consolidated statement (other relevant information).

4. PP to submit revised reply of point No. 4 of additional ToR point: PP to initiate cradle to grave life cycle analysis to identify the potential damage to the environment due to proposed project.

5. PP to submit revised reply of point No. 5 of additional ToR point: PP to include detailed impact of proposed project on the marine environment along with mitigation measures.

6. PP to submit their plan to utilize CER (Corporate Environment Responsibility) funds in consultation with the District Authority along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

7. PP to bifurcate item wise EMP cost and include the same in the EIA report and consolidated statement.

8. During deliberation it was observed that at many places PM10 and PM2.5 levels are exceeding the prescribed limits. PP to identify the source of the same and proposed mitigation measures..

9. PP to include all above information in the EIA report and submit revised EIA/EMP report.

Now PP submitted compliance of the above points.

DECISION OF SEAC

During deliberations, PP informed that, they have obtained CRZ clearance from the MCZMA.

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal limited to the activities those are approved by the MCZMA for prior Environment Clearance to the SEIAA subject to the follwing conditions

Specific Conditions by SEAC:

1) PP to obtain requisite permission from the competent Authority to dispose dredged material.
2) PP to undertake precautionary measures to ensure prevention of leakages of any chemical in to the water body.
3) PP to ensure to dispose all types of solid and hazardous wastes as per prevailing rules and obtaining requisite permission from the competent Authority.
4) PP to implement CER (Corporate Environment Responsibility) plan in consultation with the District Authority along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Expansion of existing synthetic organic chemical intermediates manufacturing unit of M/s. Kalpsutra Chemicals Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	M/s. Kalpsutra Chemicals Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Niranjan Sachade
4.Name of Consultant	M/s. Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Industrial Expansion Project; Category: B-1, Schedule: 5(f) as per EIA Notification, 2006
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 Letter vide No. SEAC-2015/CR-169/TC-2 dated 28th Jan'16 for product quantity 510 tons/month
8.Location of the project	Plot – M-12, MIDC Additional Zone
9.Taluka	Ambarnath
10.Village	Ambarnath
Correspondence Name:	Mr. Niranjan Sachade
Room Number:	Plot No. – M-12, MIDC Additional Zone
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	Additional Ambarnath MIDC
City:	Ambarnath
11.Whether in Corporation / Municipal / other area	Maharashtra Industrial Corporation Development
12.IOD/IOA/Concession/Plan Approval Number	MIDC Ambarnath Additional Zone
	IOD/IOA/Concession/Plan Approval Number: EE/AMB/M-12/C-70180/of 2018
	Approved Built-up Area: 7526.74
13.Note on the initiated work (If applicable)	Construction has been completed as per previous EC received vide no. SEAC-2015/CR-169/TC-2 dated 28th Jan'16.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11,000 m2
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 7526.74
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: 09-08-2018
19.Total ground coverage (m2)	3548.39
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32.26
21.Estimated cost of the project	64000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Production Plant, Storage Area, Admin Block, TFH Room, Generator Room, Control Room, STP etc. are constructed.
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	Isobornyl Cyclohexanol	300	--	300
2	Isocamphyl Cyclohexanol	100	150	250
3	Sandalum	5	--	5
4	Kalpantal	5	--	5
5	Citronellal	25	--	25
6	Citronellol	50	--	50
7	Para Tertiary Butyl Cyclohexanol	25	--	25
8	Isobornyl Acetate	--	300	300
9	Dipentene	--	330	330
10	Phenol Terpene resin	--	200	200
11	Isobornyl Acrylate	--	100	100
12	Isobornyl Methacrylate	--	100	100
13	By-Products	--	--	--
14	Methanol	52	--	52
15	Mixed fractions	284	231	515

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	2	0.5	2.50	0.5	0	0.5	1.5	0.5	2
Industrial Process	0	0.48	0.48	0	0	0	0	0.5	0.5
Cooling tower & thermopack	2	41.3	43.3	0.1	34.6	34.7	0	8.6	8.6

Gardening	2	16	18	2	16	18	0	0	0
Fresh water requirement	6	58.28	64.28	2.6	50.6	53.2	1.5	9.6	11.1

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon: 5-8 m bgl,Post-monsoon: 1-3 m bgl
	Size and no of RWH tank(s) and Quantity:	Size: 5 x 3.2 x 2.5, Quantity: 40 m3
	Location of the RWH tank(s):	Near Under Ground Fire hydrant tank
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 2 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.25 Lakhs/yr
	Details of UGT tanks if any :	Fire hydrant water Tank: 200 m3 Rainwater harvesting Tank: 40 m3
35.Storm water drainage	**Natural water drainage pattern:**	Slope = 0.03, towards plot boundary from East to West towards approach road
	Quantity of storm water:	1237.5 m3/hr.
	Size of SWD:	Size: Width = 0.5 m, Depth: 0.5 m; MIDC drainage dimension: 0.9 m diameter hume pipe.
Sewage and Waste water	**Sewage generation in KLD:**	2.0 m3/day
	STP technology:	Conventional STP with primary, secondary and tertiary treatment
	Capacity of STP (CMD):	6 m3/day x 1 no
	Location & area of the STP:	Center of Plot
	Budgetary allocation (Capital cost):	Rs. 8.5 Lakhs
	Budgetary allocation (O & M cost):	Rs. 0.7 Lakhs/yr

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:**	Office Waste (Cardboard, Paper waste): 100 kg/A.
	Wet waste:	NA
	Hazardous waste:	Evaporator Residue - Cat. 37.3 (100 kg/day); Spent Catalyst - Cat. 28.2 (700 kg/month); Process Residue and waste - Cat. 28.1 (25 kg/year); Discarded Containers and barrels/liners - Cat. 33.1 (150 Nos./M); Paper bags - Cat. 33.1 (1000 Nos./M)
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.3 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized recyclers
	Wet waste:	NA
	Hazardous waste:	Evaporator Residue - CHWTSDF, Spent Catalyst - Regenerated and reused or sold to authorized recyclers; Process Residue and waste - Reuse within process, Discarded Containers and barrels/liners - Authorized re conditioners or recyclers; Paper bags - Sold to authorized recyclers.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for gardening
	Others if any:	Office Waste (Cardboard, Paper waste): Sold to authorized recyclers
Area requirement:	**Location(s):**	HW storage is done in Plant area and TFH room
	Area for the storage of waste & other material:	32 sq. m. is provided for storage of HW
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	5.64	7.1	5.5.-9
2	TSS	mg/l	119	34	100
3	TDS	mg/l	738	176	2100
4	COD	mg/l	593	50	250
5	BOD (3 days at 27oC)	mg/l	184	17	100
6	O&G	mg/l	4.0	0.2	10

Amount of effluent generation (CMD):	Process: 0.5 CMD, Cooling Tower: 8.6 CMD,
Capacity of the ETP:	SEE: 3 m3/day; R.O.: 10 CMD
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Effluent generated will be passed through SEE (3 m3/day). Cooling tower blow down will be treated into RO (10 m3/day). SEE condensate and RO permeate will be reused as cooling tower makeup water.
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Evaporator Residue	37.3	Kg/day	--	100	100	Will be sent to CHWTSDF
2	Spent Catalyst	28.2	Kg/month	--	700	700	Regenerated and reused / sold to authorized recyclers.
3	Process Residue and waste	28.1	Kg/yr	--	25	25	Reuse within process

4	Discarded Containers and barrels/liners	33.1	Nos./M	150	00	150	Authorized reconditioner/ recycler
5	Paper bags	33.1	Nos./M	00	1000	1000	Sold to authorized recyclers.

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 Heater	Coal (15 TPD) & FO (2 TPD)	1	30	0.8	130
2	DG	HSD (200 L/Hr)	2	5	0.12	150

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal (TPD)	5	10	15
2	FO (TPD)	1.5	0.5	2
3	HSD (LPH)	150	50	200
41.Source of Fuel		Local Purchase		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	3,750.85 m2
	No of trees to be cut :	0
	Number of trees to be planted :	Existing: 517; Proposed: 250
	List of proposed native trees :	0
	Timeline for completion of plantation :	Proposed Plantation will be completed within 6 months

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	Cassia fistula	Bahava	42	Native ornamental tree having flowers attracting bees and butterflies
2	Phanera purpurea	Purple Orchid	59	Phanera purpurea is a small to medium-size deciduous tree growing to 5.2 m tall
3	Mimusops elengii	Spanish Cherry	36	Mimusops elengii is a medium-sized evergreen tree reaching a height of about 16 m with a thick bark.
4	Bombax ceiba	Sawar	70	A native deciduous tree with fragrant flowers attracting large number of birds & insects
5	Asltonia shcolaris	Saptaparni	60	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index

6	Polyalthia longifolia	Ashok	55	Commonly planted due to its effectiveness in alleviating noise pollution. It exhibits symmetrical pyramidal growth with willowy weeping pendulous branches and long narrow lanceolate leaves with undulate margins.
7	Delonix regia	Gulmohar	67	An ornamental flowering tree usually grows to a modest height (mostly 5 meters) but spreads widely, and its dense foliage provides full shade.
8	Peltophorum species	Tambadsheng	103	The species are medium-sized to large trees growing up to 15–25 m tall
9	Tabebuia rosea	Pink poui	35	It is a neotropical tree that grows up to 30 m and can reach a diameter at breast height of up to 100 cm. Preparations of the bark of the tree are consumed to eliminate intestinal parasites, malaria and uterine cancer
10	Phyllanthus emblica	Aavla	57	A native plant of medicinal importance
11	Couroupita guianensis	Shivalingam	70	Though introduced plant, the flowers attract large no. of insects.
12	Samanea saman	Rain tree	48	The fruit is a fleshy pod, sweet to the taste and much relished by squirrels, horses and cattle.
13	Azadirachta indica	Neem	65	A native evergreen tree known for plantation in polluted area.
14	Total Plantation	--	767 (Existing:517, Proposed: 250)	--
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	600 kW
	During Operation phase (Demand load):	430 kVA
	Transformer:	630 kVA
	DG set as Power back-up during operation phase:	1 x 320 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar streetlights are installed, Solar lighting will be used for illuminating office buildings, common area, parking etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar streetlights are installed, Solar lighting will be used for illuminating office buildings, common area, parking etc.	0.1 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Domestic waste water	6 CMD capacity STP for domestic waste water treatment	--
DG Set	Stack (320 kVA x 01) ht – 5 m above ground	--
Thermopack (Coal + F.O. fired)	Common stack having 30 m height & bag filter	--
Noise	Ear muffs, ear plugs & DG acoustic enclosure	--
Industrial waste water	--	SEE (3 CMD) & RO (10 CMD)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12.5 Lakhs
	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	Air	Installation of Bag filter, Annual maintenance work, DG stack of 5 m height above roof.	3.00	0.25
2	Water	Installation of SEE & R.O & Maintenance of Existing STP .	17.00	2.00
3	Environment Monitoring and Management	Installation of air emission monitoring system, Periodic Monitoring of environmental parameters etc.	11.5	2.00
4	Noise	Installation of anti-vibration pads, Acoustic enclosures for DG set, Ear Muffs & Ear Plugs.	2.50	0.25
5	Occupational Health	PPEs such as Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers, First aid Kit.	0.20	0.25
6	Green Belt development	Green Belt development & Maintenance	2.0	2.0
7	Solid Waste Management	Purchase of additional containers/bags for storage of solid waste, concrete paving of Hazardous Waste Storage area and CHWTSDF Cost etc.	2.0	0.1
8	Energy Conservation	Installation of solar streetlights, illumination of common, parking areas etc.	12.5	0
9	Rain Water Harvesting	For Rainwater collection network & 40 KL RCC water tank for storage of harvested rain water & annual cleaning and maintenance of RWH tank	2.0	0.25
10	Carbon foot print monitoring	Monitoring of Global Warming Potential, Ozone Layer Depletion Potential using Life Cycle Assessment Tool.	0.0	2.5

11	Water Footprint Monitoring	Water consumption, Water recycled/reused quantity to be monitored using flow meter and footprints will be analyzed.	0.0	2.0

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Alpha Pinene	Liquid	ISO Tank	450 KL	450 KL	1170 KL	Imported	By sea & road
Guaiacol	Liquid	Tank	100 KL	100 KL	210 KL	Local	By road
Phenol	Solid at RT	Tank	100 KL	100 KL	278 KL	Local	By road
Hydrogen	Gas	Cylinders mounted on trolleys	0.4 Nm3	0.4 Nm3	36 Nm3	Local	By road
Raney Nickel Catalyst	Solid	HDPE drums	0.15 MT	0.15 MT	0.050 MT	Local	By road
Clay Catalyst	Solid	Bags	4 MT	4 MT	0.4 MT	Local	By road
Citral	Liquid	Drums / Tanks	22 KL	20 Kl	70 KL	Imported	By sea & road
Para tert. Butyl phenol	Solid	Bags	25 MT	20 MT	24 MT	Imported	By sea & road
Acetic acid	Liquid	Tank	30 KL	30 KL	110 KL	Local	By road
Acrylic acid	Liquid	Drums / Tanks	20 KL	20 KL	45 KL	Imported	By sea & road
Methacrylic acid	Liquid	Drums / tanks	20 KL	20 KL	50 KL	Imported	By sea & road
Titanium Oxide	Solid	Bags	5 MT	5 MT	4 MT	Local	By road
Caustic Soda	Solid	Bags	1 MT	1 MT	4 MT	Local	By road
Hydrochloric acid (32%)	Liquid	Drums	3 KL	3 KL	10 KL	Local	By road
Camphene	Liquid	Tank	100 KL	100 KL	772.6 KL	In-house	--

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:	1105.25 m2
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) B-1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge, PP proposes scrubber to the process vents .As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge Effluent Treatment Plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.

Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 430 kVA which will be supplied by MSEDCL. PP proposes one DG sets with capacity 320 KVA
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP to provide 33% green belt along the periphery as shown in the conceptual plan submitted during presentation.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 50.70 Lakhs as capital EMP cost and Rs. 11.60 Lakhs and recurring EMP cost for the maintenance of environmental parameters during operation phase.
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 proposal was earlier considered in the 168th meeting of SEAC-1 wherein the proposal was deferred till submission uniform information in all the documents.

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.

PP has obtained earlier EC vide No. SEAC-2015/CR-169/TC-2 dated 28.01.2016; PP to submit certified copy of compliance of earlier EC from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017

The ToR was grnated to the PP 157th meeting of SEACX-1 held on 03.11.2018.

Now PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP submitted conceptual plan showing 33% green belt along the periphery; PP to ensure to provide the same and submit an undertaking in this regard.
2) PP to establish Environment Management Cell.
3) PP to implement CER plan as approved by the District Authority.

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Environmental Clearance for the production of Pharmaceutical Excipients by G. M Chemical at plot no. C-233 and 234, TTC Industrial area, MIDC Pawane, Turbhe, Navi Mumbai

Is a Violation Case: No

1.Name of Project	Environmental Clearance for the production of Pharmaceutical Excipients by G. M Chemical at plot no. C-233 and 234, TTC Industrial area, MIDC Pawane, Turbhe, Navi Mumbai
2.Type of institution	Private
3.Name of Project Proponent	G.M. Chemical- Mr. Dhaval Mehta
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.; Plot No. F7, Road No.21, Wagle MIDC area, Near Ashida Electronics, Thane West 400604
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. C-233 & 234
9.Taluka	Thane
10.Village	Turbhe
Correspondence Name:	Mr. Dhaval Mehta
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Plot No. C-233 & C-234
Locality:	MIDC Pawane, TTC Industrial area
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	MIDC Pawane
12.IOD/IOA/Concession/Plan Approval Number	Approval from Maharashtra Industrial Development Corporation
	IOD/IOA/Concession/Plan Approval Number: Approval from MIDC through letter no. DE/ MHP (C) I/C-233/B27799 dated 12.04.2018
	Approved Built-up Area: 1475
13.Note on the initiated work (If applicable)	The Factory Building has been constructed. The Equipments will be installed and plant will be commissioned only after obtaining Environmental Clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
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.): 1475
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: 12-04-2018
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	100000000

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)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	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	Cellulose Acetate Pthalate	-	200	200
2	Hypromellose Pthalate	-	300	300
3	Poly Vinyl Acetate Pthalate	-	50	50
4	Cellulose Acetate Trimellitate	-	50	50

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	0	2	2	0	0.2	0.2	0	1.8	1.8
Industrial Process	0	120	120	0	12	12	0	108	108
Cooling tower & thermopack	0	30	30	0	0.3	0.3	0	29.7	29.7
Gardening	0	10	10	0	10	10	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2-2.5 m
	Size and no of RWH tank(s) and Quantity:	1 no. of tank ; 2.5 m x 2.5 m x 2 m with 10 m3 of capacity
	Location of the RWH tank(s):	Back side of the plot
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 3 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 10,000/ annum
	Details of UGT tanks if any :	Domestic Tank: 40 m3 Fire Tank: 20 m3
35.Storm water drainage	**Natural water drainage pattern:**	Natural drainage pattern has not been disturbed
	Quantity of storm water:	1.99 m3/s
	Size of SWD:	304 mm x 304 mm
Sewage and Waste water	**Sewage generation in KLD:**	15 m3/day
	STP technology:	Septic tank
	Capacity of STP (CMD):	-
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs. 1 Lakh
	Budgetary allocation (O & M cost):	Rs. 10,000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	-
	Disposal of the construction waste debris:	-
Waste generation in the operation Phase:	**Dry waste:**	3 kg/day
	Wet waste:	4.5 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	28.1 Process residue waste: 3 kg/day ; 35.3 Chemical sludge from waste water treatment: 2 kg/day ; Paper bags: 5 kg/day; Fiber board drums: 100 kg/day ; Recycled Plastic bags: 5 kg/day

Mode of Disposal of waste:	**Dry waste:**	Handed over to NMMC after segregation
	Wet waste:	Handed over to NMMC after segregation
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	28.1 Process residue waste: handed over to TTCWMA; 35.3 Chemical sludge from waste water treatment: handed over to TTCWMA; Paper: Sent to authorized recycler; Fiber board drums: Sent to authorized recycler ; Recycled Plastic bags: Sent to authorized recycler
Area requirement:	**Location(s):**	Scrap storage area
	Area for the storage of waste & other material:	9.2 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10,000
	O & M cost:	-

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.0-8.0	5.5-9.0	5.5-9.0
2	Total Suspended Solids	mg/l	403	100	100
3	Chemical Oxygen Demand	mg/l	6540	250	250
4	Biochemical Oxygen Demand	mg/l	1956	30	30
5	Total Dissolved Solids	mg/l	830	2100	2100
6	Oil and Grease	mg/l	61	10	10

Amount of effluent generation (CMD):	108 m3/day
Capacity of the ETP:	120 m3/day
Amount of treated effluent recycled :	Nil
Amount of water send to the CETP:	98 m3/day
Membership of CETP (if require):	Membership of TTC CETP will be obtained
Note on ETP technology to be used	MBBR
Disposal of the ETP sludge	The ETP Sludge will be disposed through TTCWMA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	-	-	-	-	-	-	-

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	Baby Boiler	Natural Gas	1	17 m	0.32 m	100 c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Natural Gas	-	5000 units/ month	5000 units/ month
41.Source of Fuel		Mahanagar Gas		
42.Mode of Transportation of fuel to site		Pipeline		

43.Green Belt Development	**Total RG area :**	450 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	20
	List of proposed native trees :	Cocos Nucifera, Mangifera Indica, Musa Acuminata, Pletophorum Pterocarpum, Saraca Asoca, Ficus Religiosa, Termilania Catappa, Azadirachta Indica
	Timeline for completion of plantation :	Already planted

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	Cocos Nucifera	Coconut	9	Fruit bearing tree
2	Mangifera Indica	Mango	2	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet
3	Musa Acuminata	Banana	2	Fruit bearing tree
4	Pletophorum Pterocarpum	Copper pod	2	It is deciduous tree growing 15-25m, it is widely grown in tropical regions as an ornamental tree
5	Saraca Asoca	Ashoka	2	The Ashoka is a rain-forest tree Its flowering season is around February to April. The Ashoka flowers come in heavy, lush bunches. They are bright orange yellow in color, turning red before wilting
6	Ficus Religiosa	Peepal	1	Ficus religiosa is used in traditional medicine for about 50 types of disorders including asthma, diabetes, diarrhea, epilepsy, gastric problems, inflammatory disorders, infectious and sexual disorders.
7	Termilania Catappa	Badam	1	Terminalia catappa is a large tropical tree The tree grows to 35 m The fruit is edible, tasting slightly acidic
8	Azadirachta Indica	Neem	1	Medicinal tree
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	-
	During Operation phase (Connected load):	149 kW
	During Operation phase (Demand load):	149 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	1x 150 kW
	Fuel used:	Natural Gas
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Use of energy efficient, BEE labeled electrical fixtures, in the building

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
-	-	-

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20 Lakhs
	O & M cost:	Rs. 20,000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust	Water sprinkling	0.20
2	Site Sanitation	Septic tank	0.10
3	Personal Protective Equipment	Jackets, Safety shoes, Helmets	0.20

4	Landscape	Plantation and Maintenance	0.10
5	First Aid Facilities	First Aid Kit	0.10

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Effluent Treatment Plant	ETP having capacity 120 m3/day	25	2
2	Landscape Development	Plantation	1	0.5
3	Solid Waste Management	-	0.1	-
4	Rain water Harvesting	Channelizing and maintenance of rain water harvesting	3	0.10
5	Storm Water drain	Channelizing and maintenance of Storm water drainage line	2	0.5
6	Environment Monitoring	Air, Water, Soil and Noise Monitoring	-	2

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
-	-	-	-	-	-	-	-

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 nos.

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	-
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	3 nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	None
	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

M/s G.M.Chemicals at Plot No. C-233 & 234, TTC Industrial Area, MIDC Pawane, Turbhe, Navi Mumbai submitted their proposal for the grant of ToR under category 5(f)B1 of the schedule attached to the EIA Notification, 2006 for the manufacturing of Pharmaceutical Excipients.

DECISION OF SEAC

Secretary-SEAC-1 brought to the notice of the committee the order issued by Hon'ble National Green Tribunal, Principal Bench, New Delhi issued on 10.07.2019 in the Original Application No. 1038/2018 in the matter of News item published in "The Asian Age" Authored by Sanjay Kaw Titled "CPCB to rank industrial units on pollution levels"

In the para 11 of the above order, a list of latest CEPI score of 100 polluted industrial areas/clusters monitored during 2018 is given, in which the area of Navi Mumbai is placed at Sr. No. 51. Further Hon'ble National Green Tribunal in their order at para No. 28 mentioned which reads as below,

"....No further industrial activities or expansion be allowed with regard to 'red' and 'orange' category units till the said areas are brought within the prescribed parameters or till carrying capacity of area is assessed and new units or expansion is found viable having regard to the carrying capacity of the area and environmental norms."

SEAC-1 deliberated the issue at length with the PP and their accredited consultant, referred the list of CPCB with respect to the 'red' and 'orange' category and found that, the proposed project falls under the 'red' category.

In view of above, SEAC-1 is of the opinion that, the present proposal cannot be considered for appraisal until further directions in the matter pending before the Hon'ble National Green Tribunal.

Hence, SEAC-1 decided to refer the proposal to the SEIAA for confirmation of the above views or otherwise further guidance in the matter.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Environment Clearance for: Proposed API Intermediate manufacturing unit (M/s Chemiker Pharmaceuticals Private Ltd.)

Is a Violation Case: No

1.Name of Project	Proposed API Intermediate manufacturing unit (M/s Chemiker Pharmaceuticals Private Ltd.)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shyam Titirmare
4.Name of Consultant	Anacon Laboratories Private Limited, Nagpur
5.Type of project	Manufacturing of API intermediates
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Notified Industrial Area, MIDC Butibori, Plot no. G-95/1, Village: Kirmiti, Tehsil Hingna, District Nagpur-441 122, Maharashtra.
9.Taluka	Hingna
10.Village	Kirmiti
Correspondence Name:	Mr. Shyam Titirmare
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	Notified Industrial Area, MIDC Butibori, Plot no. G-95/1, Village: Kirmiti, Tehsil Hingna, District Nagpur-441 122, Maharashtra.
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Notified Industrial Area, MIDC Butibori , Nagpur (MS)
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 1000
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.)	2000 Sq.M.
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 1000
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: 29-10-2018
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	50000000

22.Number of buildings & its configuration

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

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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	2,7-dichloro –a (dibutyl amino) methyl -9H-fluorene-4-methanol (DBA)	0	24.16	24.16
2	Tert-Butyl [(1S,2R)-1-benzyl-2-hydroxy-3-(isobutyl amino)propyl]carbamate	0	3	3
3	4-(2-Aminoethyl) phenol	0	5	5
4	Methyl 2-(1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl)acetate	0	5	5
5	Tetra methyl-1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetate	0	0.83	0.83

32.Total Water Requirement

Dry season:	**Source of water**	MIDC, Butibori
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	MIDC, Butibori
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	2.5	2.5	0	0.5	0.5	0	2.0	2.0
Industrial Process	0	0	0	0	0	0	0	0	0
Cooling tower & thermopack	0	14.0	14.0	0	10.5	10.5	0	3.5 (Recycle)	3.5 (Recycle)
Gardening	0	3.5	3.5	0	0	0	0	0	0

Fresh water requirement	0	20	20	0	11.0	11.0	0	5.5	5.5

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon season ranges from 5-10 mbgl and in Post-monsoon season ranges from 2-5 mbgl
	Size and no of RWH tank(s) and Quantity:	5x10 feet, one, approx. 800-1000 cum/year
	Location of the RWH tank(s):	To be proposed
	Quantity of recharge pits:	1
	Size of recharge pits :	5x10 Feet
	Budgetary allocation (Capital cost) :	Will be provided in Final EIA.
	Budgetary allocation (O & M cost) :	Will be provided in Final EIA.
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	The industry is located in Butibori MIDC area where all the facilities are made available by MIDC. The land is having gentle slope and dendritic drainage pattern
	Quantity of storm water:	1063.424 m^3
	Size of SWD:	300 MM
Sewage and Waste water	**Sewage generation in KLD:**	2.0
	STP technology:	Septic Tank
	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:**	Topsoil and other construction waste
	Disposal of the construction waste debris:	Topsoil removed during the leveling will be stacked separately and will be used during the greenbelt development
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	Process Residues and organic Waste 19.78 TPA, Discarded container 12 TPA and Process Residues and inorganic salt Disposal by selling to registered recyclers for bromine recovery.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	Process Residues and organic Waste disposed as Incineration at TSDF site, Discarded container : by selling to registered recyclers and Process Residues and inorganic salt Disposal by selling to registered recyclers for bromine recovery
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Tank form Area
	Area for the storage of waste & other material:	500 Sq. feet
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Will be provided in Final EIA.
	O & M cost:	Will be provided in Final EIA.

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process Residues and organic Waste	1.4	TPA	NA	Process (DBA)	14.5	Incineration at TSDF site
2	Process Residues and organic Waste	1.4	TPA	NA	Tert-Butyl [(1S,2R)-1-benzyl-2-hydroxy-3-(isobutyl amino)propyl]carbamate	1.08	Incineration at TSDF site
3	Process Residues and organic Waste	1.4	TPA	NA	4-(2-Aminoethyl) phenol	1.80	Incineration at TSDF site
4	Process Residues and organic Waste	1.4	TPA	NA	Methyl 2-(1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl)acetate	2.4	Incineration at TSDF site
5	Process Residues and inorganic salt	28.1	TPA	NA	Tetra methyl-1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetate	19.2	Collection, storage, transportation, Disposal by selling to registered recyclers for bromine recovery.
6	Discarded container/ barrel/ liners contaminated with hazardous	33.3	TPA	NA	Production	12	Collection, storage, transportation, Disposal by selling to registered recyclers

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	Briquette /coal based	1	30	1	NA
2	DG Set	HSD	1	6	0.15	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquette /coal based	NA	Will be provided in Final EIA.	Will be provided in Final EIA.
2	HSD	NA	44 L/H	44 L/H
41.Source of Fuel		Nearest Fuel Station & Nearby Market		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	NA
	No of trees to be cut :	NA
	Number of trees to be planted :	106
	List of proposed native trees :	List of Recommended species is attached in Document Section.
	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	Cynodon dactylon	Doob grass	NA	Restrict soil erosion
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	160 KVA
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	175 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Energy Efficient motors will be used.
Energy Efficient equipment/ BEE Star rated equipment.
Energy Efficient Boiler.
LED in all offices.
Energy Efficient lighting in whole industrial campus.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	All above energy saving measures	Will be provided in Final EIA.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	NA	Dust Collector
Water	NA	Septic Tank/Soak Pit
Hazardous Waste	NA	Sent to TSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Will be provided in Final EIA.
	O & M cost:	Will be provided in Final EIA.

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	Environmental Monitoring	Environmental Monitoring	Will be provided in Final EIA.	Will be provided in Final EIA.
2	Air Pollution	Bag filter / Dust collector	Will be provided in Final EIA.	Will be provided in Final EIA.
3	Water Pollution	Septic Tank / Soak Pit	Will be provided in Final EIA.	Will be provided in Final EIA.
4	Noise Pollution	PPE for workers	Will be provided in Final EIA.	Will be provided in Final EIA.
5	Solid /Hazardous Waste Management	TSDF	Will be provided in Final EIA.	Will be provided in Final EIA.
6	Occupational Health	Health Care	Will be provided in Final EIA.	Will be provided in Final EIA.
7	Green Belt	Native Species will be planted	Will be provided in Final EIA.	Will be provided in Final EIA.

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Methanol	Storage Tank	Storage Area	10 KL	10 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road
Butanol	Storage Tank	Storage Area	10 KL	10 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road
MDC	Storage Tank	Storage Area	10 KL	10 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road
Acetonitrile	Storage Tank	Storage Area	5 KL	5 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road
Toluene	Storage Tank	Storage Area	5 KL	5 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road

Diphenyl ether	Drum	Storage Area	2 KL	2 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road
N-methyl pyrrolidone	Drum	Storage Area	2 KL	2 KL	-	Raw materials required are easily available from suppliers of Maharashtra, Madhya Pradesh & Gujarat.	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	MIDC road of 30.0 meter wide
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	Will be provided in Final EIA.
	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):	20 meter Wide
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	No
	Other Relevant Informations	This is submitted for ToR application, will be finalized and submitted in Final EIA Report.

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-02-2019

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.

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

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

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

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

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

The proposal was considerd in the 165th meeting of SEAC-1 held on 06.05.2019 wherein ToR was grnated to the PP with following additional ToR points.

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 plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations.

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

5. PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.

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

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

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

9. PP to submit hazardous chemical handling protocol

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.

11. PP to include point wise compliance of the standard ToR points in the EIA report.

Now PP submitted EIA/EMP reprot for appraisal.

DECISION OF SEAC

During deliberations it was oberved that, PP has not submitted Form-II also PP was not having adequate docuemnts like lay out plan , detaisl of waste water generation and its treatment etc.

In view of above, SEAC-1 decided to defer the proposal till PP submits complete information along with Form - II and revised layout.

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 plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations.
4) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
5) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
6) PP to carry out HAZOP and QRA and submit disaster management plan.
7) PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.
8) PP to include water and carbon foot print monitoring in the EMP.
9) PP to submit hazardous chemical handling protocol
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.
11) PP to include point wise compliance of the standard ToR points in the EIA report.

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Environmental clearance of proposed Synthetic Organic Chemical Manufacturing Unit

Is a Violation Case: No

1.Name of Project	M/s. VR Organics
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jaychand Y. Kakade (Managing Director)
4.Name of Consultant	M/s. SGM Enviro (I) Pvt. Ltd.
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	This is New Project
8.Location of the project	SLU-13, MIDC- Mahad, Raigad- 402309
9.Taluka	Mahad
10.Village	MIDC-Mahad
Correspondence Name:	SLU-13, MIDC- Mahad, Raigad- 402309
Room Number:	SLU-13
Floor:	-
Building Name:	VR Organics
Road/Street Name:	-
Locality:	MIDC Mahad
City:	Mahad
11.Whether in Corporation / Municipal / other area	MIDC Mahad area
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC possession letter is obtained
15.Total Plot Area (sq. m.)	468 Sq. m (81 Sq. M area is acquired by road in MIDC. Therefore Total plot area = 387.0 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.): 297
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: 12-04-2019
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	4000000

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)	15 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	68 Sq. M (Existing Structure provided by MIDC)
30.Details of the demolition with disposal (If applicable)	No demolition work involve

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Skatol	0	0.5	MT/M
2	Indol	0	4.5	MT/M
3	Sandal derivative	0	1	MT/M
4	Phenyl Ethyl Alcohol derivatives	0	5	MT/M
5	Specialty Aroma Chemical	0	1	MT/M
6	By-Product-Product residue	0	0.250	MT/M

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	6.3
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	6.3
	Fire fighting - Underground water tank(CMD):	1 Tank of 7 cubic meter
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	6.3
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	6.3
	Fire fighting - Underground water tank(CMD):	1 Tank of 7 cubic meter
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	1.2	1.2	0	0.2	0.2	0	1.0	1.0
Industrial Process	0	3.5	3.5	0	1.0	1.0	0	2.5	2.5
Cooling tower & thermopack	0	1.5	1.5	0	1.5	1.5	0	0	0
Gardening	0	0.1	0.1	0	0.1	0.1	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Approx. 20 m below ground level
	Size and no of RWH tank(s) and Quantity:	The rainwater harvesting structure will be decided during detailed engineering of the project.
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	The rainwater harvesting structure will be decided during detailed engineering of the project.
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	0.50 Lac
	Budgetary allocation (O & M cost) :	0.10 Lac
	Details of UGT tanks if any :	1 Tank of 7 cubic meter
35.Storm water drainage	**Natural water drainage pattern:**	MIDC drains are provided to each plot for drainage of storm water.
	Quantity of storm water:	0.03 cum/sec
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	1
	STP technology:	Septic tank & Soak Pit
	Capacity of STP (CMD):	No
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	0.50 Lac
	Budgetary allocation (O & M cost):	0.10 Lac
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	In construction phase minor quantity construction waste will be generated
	Disposal of the construction waste debris:	Will be sent to Authorized dealers
Waste generation in the operation Phase:	**Dry waste:**	1. Small Cans- 5 Nos/m, 2. Drums- 15 No.s/M
	Wet waste:	No
	Hazardous waste:	ETP Sludge - 100 Kg/m
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	No
	Others if any:	No

Mode of Disposal of waste:	**Dry waste:**	Small cans & Drums will be sent to authorized dealer
	Wet waste:	No
	Hazardous waste:	Hazardous Waste will be disposed at CHWTSDF .
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	No
	Others if any:	No
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	Separate Storage shed will be provided for storage of waste and other material
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1 Lac
	O & M cost:	0.10 Lac

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5-9	5.5-7.5	5.5-8.5
2	BOD	mg/lit	< 100 mg/lit	< 100 mg/lit	< 100 Mg/lit
3	COD	mg/lit	< 600 mg/lit	< 250 Mg/lit	< 250 Mg/lit
4	TSS	mg/lit	<130 mg/lit	<100 mg/lit	< 100 Mg/lit
5	TDS	mg/lit	<2200 mg/lit	< 2100 Mg/lit	< 2100 Mg/lit

Amount of effluent generation (CMD):	2.5
Capacity of the ETP:	5
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	Effluent will be sent to ETP, where primary treatment will be given. After that, effluent will be sent to CETP Mahad for further treatment.
Membership of CETP (if require):	Will be obtained
Note on ETP technology to be used	Primary treatment
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	-	kg/m	0	100	100	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	No provision of stack is required. No boiler & DG set will be provided	0	0	0	0	0

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	0	0	0
41.Source of Fuel		Not Applicable		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development	**Total RG area :**	125 Sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	19
	List of proposed native trees :	Please refer point no. vi
	Timeline for completion of plantation :	Within 1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mangifera indica	Mango	1	Native.fruit bearing tree. Wood is extensively used for low cost furniture
2	Manilkara zapota	Chiku	1	Native. Fruit bearing tree
3	Psidium guajava	Gauva	1	Fruit bearing tree
4	Annona squamosa	Sitaphal	1	Native. Fruit bearing tree
5	Saraca asoca	Ashok	9	Small evergreen tree
6	Prunus dulcis	Badam	1	Evergreen fruit bearing tree attracts birds
7	Musa	Banana	1	Native. Fruit bearing tree
8	Cocos nucifera	Coconut	2	Native. Fruit bearing tree
9	Phyllanthus emblica	Aawla	2	Native. Fruit bearing tree
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	0	0

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	10 HP
	DG set as Power back-up during construction phase	No
	During Operation phase (Connected load):	3 phase/ 42 HP
	During Operation phase (Demand load):	30 HP
	Transformer:	No
	DG set as Power back-up during operation phase:	No DG set as power backup will be provided
	Fuel used:	No
	Details of high tension line passing through the plot if any:	No high tension line is passing through the plot

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Solar energy	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Not Applicable	Process Scrubber will be provided
Water	Not Applicable	Septic tank & Soak Pit will be provided, ETP will be provided
Noise	Not Applicable	No noise generation will take place due to proposed unit. However, Green belt will be developed.
Solid Waste	Not Applicable	Separate Area will be provided for storage of solid waste. Hazardous waste will be sent to CHWTSDF. Non hazardous waste will be sent to Authorized dealer.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2 Lac
	O & M cost:	0.25 Lac

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Supply of safe drinking water	-	Capital Cost: 0.25 Lac, O & M cost: 0.10 Lacs/month
2	Sanitation	-	Capital Cost: 0.25 Lac, O & M cost: 0.05 Lacs/month

3	Health check up camp	-	O & M cost: 0.12 Lacs/month

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Pollution	ETP, Septic tank & Soak pit	9	3
2	Air Pollution	Process Scrubber	0.60	0.10
3	Green Belt Development	Tree plantation & its maintenance	0.10	0.50
4	Environment Monitoring and Management	Monitoring of air, water, noise, soil etc	-	2
5	Rain Water Harvesting	Provision of RWH arrangements	0.50	0.10
6	Occupational Health & Safety measures	Health Check-up, PPE provision, Safety measures, Medical checkup	0.7	0.35
7	Solid waste	Solid waste management	1	0.10
8	Energy Conservation	Use of solar energy	2	0.25

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
Storage of Drums, Small Cans etc.	--	Separate area	2	3	5	Local vendor	Transport by road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2: Approach Road From two Sides of the plot

Parking details:	**Number and area of basement:**	No basement
	Number and area of podia:	No podium
	Total Parking area:	81 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:	Bus, Auto Rickshaw
	Width of all Internal roads (m):	No
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	No
	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(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The proposal was considerd in the 168th meeting of SEAC-1 wherein the proposal was rejected due to following reason,

"During deliberations it was observed that the total plot area is 468.00 Sq.m. in which PP proposes 3 meter wide roads and 29% green belt.

After detaield discussion with the PP and their accredited consultant, SEAC-1 decided to reject the proposal as proposed plot is not adequate to provide sufficient space for proposed industtrial activity. The plot size is too small to accomodate six meter wide roads for free movment of emergency vehicles and 33% green belt."

DECISION OF SEAC

As the proposal was earlier rejected by the SEAC-1 for the grant of ToR.

SEAC-1 decide to refer the proposal to the SEIAA.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Proposed stone Mining Project "Babhulsar Stone Quarry"

Is a Violation Case: No

1.Name of Project	Proposed stone Mining Project "Babhulsar Stone Quarry"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Arjun Kale
4.Name of Consultant	M/s. SGM Enviro (I) Pvt. Ltd.
5.Type of project	Industrial - Mining
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	New Project
8.Location of the project	Kh No. 85 (D), Village Babhulsar, Tal-Shirur, Dist-Pune
9.Taluka	Shirur
10.Village	Babhulsar
Correspondence Name:	Mr. Arjun Kale
Room Number:	Kh No. 85 (D), Village Babhulsar, Tal-Shirur, Dist-Pune
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Babhulsar village
City:	-
11.Whether in Corporation / Municipal / other area	Grampanchayat Babhulsar
12.IOD/IOA/Concession/Plan Approval Number	NOC from Grampanchayat Babhulsar has been obtained
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Grampanchayat NOC
15.Total Plot Area (sq. m.)	10000 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: 11-05-2019
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	3621000

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	Not Applicable
29.Existing structure (s) if any	Not applicable. New Project
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	Stone Mining	0	27000 Cu.M. per year	27000 Cu.M. per year

32.Total Water Requirement

Dry season:	**Source of water**	Tanker
	Fresh water (CMD):	3
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	3
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0

Wet season:	**Source of water**	Tanker
	Fresh water (CMD):	3
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	3
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	1	1	0	0.2	0.2	0	0.8	0.8
Gardening	0	2	2	0	2	2	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	14-15 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable

35.Storm water drainage	**Natural water drainage pattern:**	Along slope direction of lease area i.e towards NE
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	0.8
	STP technology:	Septic tank & soak pit
	Capacity of STP (CMD):	1 No. of Septic tank & soak pit
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	0.7 Lakh
	Budgetary allocation (O & M cost):	0.4Lakh

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:**	No
	Wet waste:	No
	Hazardous waste:	No
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	No
	Others if any:	No
Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	No
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

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

1	NA	NA	NA	NA	NA

Amount of effluent generation (CMD):	Nil
Capacity of the ETP:	0
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	0
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA

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	NA. No provision of DG set or boiler etc.	NA	NA	NA	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity will be procured from MSEDCL. No provision of DG set or boiler etc. Hence no other fuel is required	NA	NA	NA

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

43.Green Belt Development	**Total RG area :**	Barrier zone of 7.5 m will be developed as Green Belt Area. Area under plantation will be 710 Sq.m.
	No of trees to be cut :	0
	Number of trees to be planted :	The plantation will be done 15 trees per year by planting local species.
	List of proposed native trees :	Given below
	Timeline for completion of plantation :	1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Delonix Regia	Gulmohar	1	It is a deciduous tree growing to 10-15m tall tree. The tree has a graceful appearance and bright orange/vermilion flowers.

2	Manhifera Indica	Mango	1	Large evergreen tree with a dense dome shaped crown, fruit bearing tree. Wood is extensively used for low-cost furniture
3	Terminalia belerica	Beheda	1	large decidious tree
4	Azadirachta Indica	Neem	1	Neem is a fast growing tree that can reach a height of 15-20m. It is deciduous tree and the branches are wide and spreading, Good for air purification. Leaves have medicinal use.
5	Moringa Oleifera	Shevga	2	Native multipurpose tree
6	Syzigium cumini	Jambhul	1	It is a evergreen tree growing to 15-25m tall tree. Dense foliage & edible violet fruits invites lots of birds. Not preferred along roads or in parking lots, due to falling fruits & bird droppings
7	Ziziphus Mauritiana	Bor	1	Native. Fruit bearing tree
8	Ficus Racemosa	Umbar	1	Deciduous tree
9	Psidium Gujava	Peru	2	Fruit bearing tree
10	Terminalia Catappa	Badam	1	Ornamental tree
11	Tamarindus Indica	Chinch	1	Long lived, beautiful fruiting tree with a dense, spreading crown. The tree has fragrant flowers and a feathery foliage that is usually evergreen
12	Cassia fistula Linn.	Bahava	1	Flowering, Ornamental plan. Used in herbal medicine
13	Annona squamosa	Shitaphal	1	Fruit bearing tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	No
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	NA
	Transformer:	No
	DG set as Power back-up during operation phase:	No
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	No high tension line passing from plot

48.Energy saving by non-conventional method:

NA

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	NA	Water Spraying, Road Maintenance, Vehicle management for Valid PUC, Green Belt development
Water	NA	Septic tank & soak pit will be provided
Noise	NA	Green belt development, provision of acoustic enclosure, PPE to workers as per requirement

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environment Monitoring and Management	Monitoring of Air, Water, Soil, Noise parameters etc.	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	Water Spraying, Road Maintenance, Vehicle management for Valid PUC, Green Belt development	5	1.5
2	Water	Septic tank & soak pit	0.7	0.4
3	Noise	PPEs if required, Acoustic enclosures, Green belt development	0.7	0.5
4	Green Belt Development	Tree plantation & its maintenance	0.5	0.4
5	Environment Monitoring and Management	Monitoring of Air, Water, Soil, Noise parameters etc.	-	2
6	Occupational Health & Safety measures	Health Check-up, PPE provision, Safety measures, Medical checkup	0.8	0.5

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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:	1

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	No
	Total Parking area:	Not applicable
	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:	Bus, Autorikshaw
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	No. Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	1 (a), Category- B2
	Court cases pending if any	No
	Other Relevant Informations	NA
	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	PP proposes to provide mitigation measures for dust control, vehicular emission, domestic waste water, etc.
Water Budget	PP submitted water budget calculations at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP to provide movable toilets to the workers working in the mine area and sewage generated shall be properly collected and treated so as to confirm to the standards prescribed by MoEF&CC and CPCB.
Drainage pattern of the project	PP not to obstruct any natural stream the garland drains shall be designed considering the contour levels on site so as to reach rain water to the mined pit or to the natural course exists on site.
Ground water parameters	No ground water withdrawal is permitted in the proposed mine area.

Solid Waste Management	PP to ensure proper disposal of solid waste as approved by the competent Authority. No nuisance of the waste be created in and around the proposed mine area.
Air Quality & Noise Level issues	PP proposes to construct pakka approach road, water sprinkling for the control of dust pollution. PP proposes to ensure PUC of the vehicles transporting mined material.
Energy Management	Not Applicable
Traffic circulation system and risk assessment	PP to provide adequate load baring capacity road for safe plying of the heavy vehicles transporting mined material.
Landscape Plan	PP to develop 7.5 meter wide green belt along the periphery in the safety zone, the mined pits will be created as water reservoirs with all necessary safety provisions.
Disaster management system and risk assessment	PP proposes to provide medical aid facility on the site. DGM approved mine manager will be appointed by the PP.
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	PP submitted EMP cost calculations at Sr. No. 51 of the Consolidated Statement.
Any other issues related to environmental sustainability	Mining / loading activity should carried out only in in day hours' time.

Brief information of the project by SEAC

PP submitted their application for prior Environment Clearance under category 1(a)B2 of the EIA Notification,2006 , as amended from time to time for the stone quarry having area of 1.00 ha. at Babhulsar Kh. No. 85 (D) , Taluka Shirur, District Pune.

The proposal was considered in the 166th A meeting of SEAC-1 wherein the proposal was defrred due to non submisison of DSR.

The proposal was earlier considered in the 168th meeting of SEAC-1 wherein the proposal was deferred till submission of compliance of followng point.

1. PP to obtain and submit NOC from irrigation department as the Chas Kaman Canal is in the vicinity of proposed mine lease area.

Now PP submitted the compliance of above point.

DECISION OF SEAC

PP, DMO and Consultant were present for the meeting.

During deliberations, DMO, Pune informed that, no cluster is formed arund the proposed mine lease area.

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

Specific Conditions by SEAC:

1) DMO to demarcate the lease area and safety zone before taking any effective steps on site.
2) PP to develop 7.5 meter wide green belt along the periphery in the safety zone, the mined pits will be created as water reservoirs with all necessary safety provisions.
3) PP to appoint qualified fore man as a Mine Manager approved by Director General of Mines to ensure safety of the staff/labors appointed at mine site.
4) PP to prepare adequate capacity approach roads to the proposed mine area so as to ensure safe plying of the heavy vehicles engaged on mine site for transport of mined material and to avoid any unforeseen accident. PP to plant trees along the road.
5) PP to provide movable toilets/ bio toilets to the workers working in the area and the sewage generated shall be properly collected and treated so as to confirm to the standards prescribed by MoEF&CC and CPCB.
6) PP to provide First Aid facility at the proposed mining site.
7) PP proposes Jackhammer drilling in proposed quarry. The jackhammer drills produces more noise and do not have inbuilt water injection system. PP to ensure protective measures are provided to reduce noise exposure and dust emission due to drilling and blasting activity.
8) PP to implement mine closure plan as approved by the competent Authority. PP to provide dry wall of around one meter along with barbed wire fencing to the mining lease area to ensure safety of animals and humans.
9) PP along with revenue and forest department shall conduct a joint tree survey and if any trees needs to be cut PP shall ensure compensatory afforestation is to be done as per prevailing rules with the help of Forest Department. PP to transplant the trees to be cut within the non-mine area of the proposed plot.
10) PP to obtain all necessary NOC's/Permissions from the competent Authority before commencing any work on proposed site.
11) PP to ensure that no mining shall be done below the depth as approved in the mining plan.
12) PP to ensure that, the quarrying is proposed above the level of aquifer to avoid the ground water contamination/degradation of water quality of aquifer. PP to take adequate measures/precautions to avoid contamination /degradation of ground water.
13) PP to ensure no stream is diverted due to proposed quarrying activity.
14) PP to ensure that mining/ loading activity shall be restricted to day hours' time only. No mining activity shall be carried out after sunset and before sun rise.
15) PP to provide adequate channels to guide the rain water to reach the mined pit and to avoid any unforeseen incident.
16) PP to adhere to the provisions stipulated Maharashtra Minor Mineral Extraction (Development and Regulation) Rules, 2013, guidelines issued by MoEF&CC and any other legal requirements as applicable to the proposed activity.
17) PP to ensure strict compliance of all conditions stipulated in the Environmental Clearance. The District Collector should strictly monitor the compliance of the conditions stipulated in the Environment Clearance letter.
18) PP to ensure that there is no damage to any fauna and its nesting close to the proposed mining area.
19) PP to ensure that, the overburden be stored on site and shall be used for refilling of mine pit.
20) PP to ensure that adequate measures like maintenance of roads, sprinkling of water and plantation is carried out to reduce the dust particulate matter pollution.
21) PP to ensure that parking shall not be made on Public roads. Parking shall be on pre decided place only.
22) The transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
23) PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC on 01.05.2018.

FINAL RECOMMENDATION

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

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Aarti Industries Limited . Plot No. 55, 56, 57, 59 & 60 M.I.D.C. phase II Dombivali, Dist.- Thane

Is a Violation Case: No

1.Name of Project	Proposed expansion project of manufacturing of API intermediates and Specialty Chemicals
2.Type of institution	Private
3.Name of Project Proponent	Mr. Narendra Salvi
4.Name of Consultant	Goldfinch Engineering Systems Private Limited, Thane
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	No
8.Location of the project	Plot No. D- 55, 56, 57, 59 & 60
9.Taluka	Kalyan
10.Village	Sagarli
11.Whether in Corporation / Municipal / other area	Municipal corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 1914
13.Note on the initiated work (If applicable)	Nil
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	3760 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.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	322800000

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)	NA
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	Bambuterol Hydrochloride	00	0.42	0.42
2	R-Salbutamol Sulphate	00	0.83	0.83
3	Deferiprone	00	0.42	0.42
4	Ranolazine	0.2	(-)0.2	00
5	Phenylpherine Hydrochloride	0.4	0.85	1.25
6	Budesonode (TTR)	0.03	(-)0.03	00
7	PAN-IV (1ß,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.)	0.03	(-)0.03	00
8	FLY -X (N-[(S)-1-Carbethoxy-1-butyl]-(S)-alanine)	0.03	0.29	0.32
9	BA - III (N-[4-cyano-3-(trifluromethyl)phenyl]-2-methyl[(4-flurophenyl)-thio]]-2-hydroxy-2-methylproponamide)	0.03	(-)0.03	00
10	TV-INT (Ethyl, R-(+)-(4-nitrobenzenesulfonyloxy)-4-phenyl butyrate)	0.03	0.47	0.5
11	Peridopril Erbumine	00	0.17	0.17
12	TTR IV ((1ß,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.)	00	0.1	0.1
13	FLY VIII (Benzyl(2S,3aS,7aS)-Octahydro-1H- Indole-2-carboxylate 4-Methylbenezenesulfonate)	00	0.43	0.43
14	PR-38 - 4-[2-(1-Azepanyl)Ethoxyl Benzyl Chloride Hydrochloride	--	--	--
15	PR-86 - t-butyl-hydroxycyclohexyl methacrylate	--	--	--
16	PR-88 - (2,3,4,6-TETRA-O-BENZYL-D-GALACTOSE)	--	--	--
17	PR-89 - ((S)-1-BOC-3-HYDROXY PIPERIDINE)	--	--	--
18	PR-91 - (S)-2-AMINO-5-METHOXYTETRALINE HYDROCHLORIDE	--	--	--
19	PR-92 - (S)-1,2,3,4-Tetrahydro-5-methoxy -N-propyl-2-naphthalenamine hydrochloride	--	--	--
20	PR-115 (N-Decyl-N,N-Dimethyl-3- Ammonio-1 -propane- Sulphonate)	--	--	--
21	PR-116 (S)-(TETRAHYDROFURAN-3-YL) HYDRAZINE HYDROCHLORIDE	--	--	--
22	PR-156 - (2-Bromo-4-nitro imidazole)	--	--	--
23	PR-178 - (S,S)-2,8-Diazabicyclo[4.3.0]nonane	--	--	--
24	PR-179-(3-HYDROXY-N-METHYL-3-PHENYL-PROPYLAMINE	--	--	--
25	PR-181 - CHLOROMETHYL CHLORO SULFATE	--	--	--
26	Note - Combine production capacity of PR-38,PR-86,PR-88,PR-89,PR-91, PR-92, PR-115,PR-116,PR-156,PR-178,PR-179,PR-181, will be 2.25 TPM	00	2.25	2.25
27	Total	0.748	5.922	6.67

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	5.5	13	18.5	1.1	2.9	4	4.4	10.1	14.5
Industrial Process	21	14	35	8.6	5.8	14.4	12.4	8.2	20.6
Cooling tower & thermopack	4	1.5	5.5	3.2	1.2	4.4	0.8	0.3	1.11
Gardening	2	4	6	2	4	6	0	0	0

Fresh water requirement	32.5	37.5	65	14.9	13.9	28.8	17.8	18.6	36.2

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	will submit in EIA report
	Size and no of RWH tank(s) and Quantity:	will submit in EIA report
	Location of the RWH tank(s):	will submit in EIA report
	Quantity of recharge pits:	will submit in EIA report
	Size of recharge pits :	will submit in EIA report
	Budgetary allocation (Capital cost) :	will submit in EIA report
	Budgetary allocation (O & M cost) :	will submit in EIA report
	Details of UGT tanks if any :	1. Methanol (25 KL) 2. IPA (25 KL) 3. Toluene (25 KL) 4. Acetone (25 KL) 5. Ethyl Acetate (25 Kl)
35.Storm water drainage	**Natural water drainage pattern:**	Provided by MIDC
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	20
	STP technology:	Conventional technology will be used
	Capacity of STP (CMD):	1 No. 25 CMD
	Location & area of the STP:	Near ETP
	Budgetary allocation (Capital cost):	Rs 2500000
	Budgetary allocation (O & M cost):	100000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Nil
	Disposal of the construction waste debris:	Nil
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	kindly refer point no. 45
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	250 kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	CHWTSDF, MWML, Taloja
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be use as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Production Area, Raw Material & Products Storage Area, Office Building, STP & ETP , Parking
	Area for the storage of waste & other material:	Dedicated area is allocated near ETP
	Area for machinery:	1914 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 342300000
	O & M cost:	Rs 3400000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	7-8	ZLD	5.5-9.0
2	BOD	mg/lit	2500-3500	ZLD	<100
3	COD	mg/lit	5000-6000	ZLD	<250
4	TDS	mg/lit	2000-300	ZLD	<2100
5	Oil & Grease	mg/lit	<20	ZLD	<10

Amount of effluent generation (CMD):	21.7 CMD
Capacity of the ETP:	35 CMD
Amount of treated effluent recycled :	35 CMD
Amount of water send to the CETP:	ZLD
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Primary, Secondary, Tertiary , MEE & ZLD
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Carbon	28.2	MTPA	6.18	00	6.18	CHWTSDF
2	Spent Mother Liquor	28.4	MTPA	12	6	18	Sale to authorized party
3	ETP Sludge	34.3	MTPA	8.6	8.1	16.7	CHWTSDF
4	MEE Salts	37.3	MTPA	90	179	269	CHWTSDF
5	Distillation Residue	20.3	MTPA	0	1.2	1.2	CHWTSDF
6	Process Waste & Residue	28.1	MTPA	0	3	3	CHWTSDF
7	Contaminated Filter Bags	36.1	MTPA	0	1.2	1.2	CHWTSDF

8	Used/spent oil	5.1	MTPA	0	5.4	5.4	Sale to authorized party

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (one stand by & one operating)	FO = 2.04 T/Day	01 combined stack	30	0.4	125 deg. C
2	Thermo pack (one stand by & one operating)	LDO = 510 lit/day	01 combined stack	22	0.25	150 deg. C
3	DG Sets (no 02)	HSD = 600 lit/month	042separate stack	4.2-5	0.15	135 deg. C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	L.D.O	150 lit/day	360 lit/day	510 lit/day
2	FO	00	2040 kg/day	2040 Kg/day
3	HSD	420 lit/month	180 lit/month	600 lit/month
41.Source of Fuel		Oil companies		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	612 sq. m.
	No of trees to be cut :	No tree will be cut
	Number of trees to be planted :	150
	List of proposed native trees :	Tectona grandis, terminalia arjuna, Ficus bengalensis, Ficus religiosa, Azardirachta indica, Sizigium cumini, Cassia fistula, Bougainvillea spectabillis, Lantana camara, etc.
	Timeline for completion of plantation :	Within Five year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminalia arjuna	Arjun	25	pollution resistant and Native
2	Tectona grandis	Teak, saag	25	pollution resistant and Native
3	ficus bengalensis	Vaad	7	pollution resistant and Native
4	Ficus religiosa	Pimpal	8	pollution resistant and Native
5	Azardirachta indica	Neem	15	pollution resistant and Native
6	Syzigium cumini	Jamun	15	pollution resistant and Native
7	cassia fistula	Bahava	15	pollution resistant and Native
8	Bougainvillea spectabillis	Bouganvel	15	pollution resistant and Native
9	Lantana camara	Ghaneri	25	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	NA	NA	NA

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):	Existing : 500 KW ;Proposed : 1060 KW
	During Operation phase (Demand load):	Existing : 350 KW; Proposed : 750 KW
	Transformer:	Existing : 515 KVA ;Proposed : 1130 KVA
	DG set as Power back-up during operation phase:	Existing 02 DG with capacity 250 KVA (2 No.) ; 200 KVA (1 no); 250 KVA Replaced by 380 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line passing through through the plot

48.Energy saving by non-conventional method:

Nil

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
Air	Stack of adequate height	Stack of adequate height
Water	ETP ,RO and MEE	ETP ,RO and MEE
Noise	Acoustic enclosure	Acoustic enclosure
Solid Waste	Disposal to MWML	Disposal to MWML

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35 lac
	O & M cost:	7 lac

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	2 no. stacks	10	0.5
2	Water Pollution	ETP	340	16
3	Domestic Effluent	STP	20	1
4	Noise	Acoustic enclosures	5	nil
5	Process emmisions	3 no. Scrubbers	16.5	3.3

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Methanol	Liquid	Under Ground	25 KL	25 KL	20	Local	Road
IPA	Liquid	Under Ground	25 KL	25 KL	10	Local	Road
Toluene	Liquid	Under Ground	25 KL	25 KL	5	Local	Road
Acetone	Liquid	Under Ground	25 KL	25 KL	20	Local	Road
Ethyl Acetate	Liquid	Under Ground	25 KL	25 KL	5	Local	Road
Ammonia	Liquid	Tank farm	5 KL	5 KL	1	Local	Road
MDC	Liquid	Tank Farm	5 KL	5 KL	2	Local	Road
Acetic Anhydride	Liquid	Tank Farm	5 KL	5 KL	1	Local	Road

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:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	414
	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):	3 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	no protected area in 10 km circle
	Category as per schedule of EIA Notification sheet	5 (f) B (1)
	Court cases pending if any	Nil
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
1. Name of Project	Proposed expansion project of manufacturing of API intermediates and Specialty Chemicals	Environmental Clearance for proposed expansion project of manufacturing of API, API intermediates and Specialty Chemicals Plot No. 55, 56, 57, 59 & 60 M.I.D.C. phase II Dombivli, Dist.- Thane
3. Name of Project Proponent	Mr. Narendra Salvi	Mr. Narendra Salvi, Aarti Industries Limited
5. Type of Project	Not Applicable	Industrial
11. Area of the project	Municipal corporation	M.I.D.C. phase II Dombivli
18. Proposed Built-up Area (FSI & No-FSI)	FSI area (sq. m.): Not applicable Non FSI area (sq. m.): Not applicable Total BUA area (sq. m.):	FSI Area (Sq. m): 99.77 Non FSI Area (Sq. m): -361.0 Total BUA Area (Sq. m): -261.23
19. Total Ground Coverage (M2)	Not applicable	1255.44
20. Ground-coverage percentage (%) (Note: Percentage of plot not open to sky)	Not applicable	33.3%
21. Estimated cost of the project (In Lacs)	322800000	395000000

27. Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA	12 m
28. Turning Radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable	9 m
29. Existing structure (s) if any	Not applicable	Manufacturing area, utility area, storage area, etc.
31. Production Details	1. Bambuterol Hydrochloride: Existing 00 MT/M, Proposed 0.42 MT/M, Total 0.42 MT/M	1. Bambuterol Hydrochloride: Existing 00 TPA, Proposed 5.0 TPA, Total 5.0 TPA
31. Production Details	2. R-Salbutamol Sulphate Existing 00 MT/M, Proposed 0.83 MT/M, Total 0.83 MT/M	2. R-Salbutamol Sulphate Existing 00 TPA, Proposed 10 TPA, Total 10 TPA
31. Production Details	3. Deferiprone Existing 00 MT/M, Proposed – 0.42 MT/M, Total – 0.42 MT/M	3. Deferiprone Existing 00 TPA, Proposed – 5 TPA, Total 5 TPA
31. Production Details	4. Ranolazine Existing 0.2 MT/M, Proposed – (-) 0.2 MT/M, Total – 0.00 MT/M	4. Ranolazine Existing 2.4 TPA, Proposed – (-)2.4 TPA, Total 00 TPA
31. Production Details	5. Phenylpherine Hydrochloride Existing 0.4 MT/M, Proposed – 0.85 MT/M, Total – 1.25 MT/M	5. Phenylpherine Hydrochloride Existing 4.8 TPA, Proposed – 10.2 TPA, Total 15 TPA
31. Production Details	6. Budesonode (TTR) Existing 0.03 MT/M, Proposed – (-) 0.03 MT/M, Total – 00 MT/M	6. Budesonode (TTR) Existing 0.3552 TPA, Proposed – (-) 0.3552 TPA, Total 00 TPA
31. Production Details	7.PAN-IV(1ß,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.) Existing 0.03 MT/M, Proposed – (-) 0.03 MT/M, Total – 00 MT/M	7.PAN-IV(1ß,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.) Existing 0.3552 TPA, Proposed – (-) 0.3552 TPA, Total 00 TPA
31. Production Details	8. FLY -X (N-[(S)-1-Carbethoxy-1-butyl]-(S)-alanine) Existing 0.03 MT/M, Proposed –0.29 MT/M, Total – 0.32 MT/M	8. FLY -X (N-[(S)-1-Carbethoxy-1-butyl]-(S)-alanine) Existing 0.3552 TPA, Proposed – 3.4448 TPA, Total 3.8 TPA
31. Production Details	9. BA - III (N-[4-cyano-3-(trifluromethyl)phenyl]-2-methyl[(4-flurophenyl)-thio]]-2-hydroxy-2-methylproponamide) Existing 0.03 MT/M, Proposed – (-) 0.03 MT/M, Total – 00 MT/M	9. BA - III (N-[4-cyano-3-(trifluromethyl)phenyl]-2-methyl[(4-flurophenyl)-thio]]-2-hydroxy-2-methylproponamide) Existing 0.3552 TPA, Proposed – (-) 0.3552 TPA, Total 00 TPA
31. Production Details	10. TV-INT (Ethyl, R-(+)-(4-nitrobenzenesulfonyloxy)-4-phenyl butyrate) Existing 0.03 MT/M, Proposed 0.47MT/M, Total – 0.5 MT/M	10. TV-INT (Ethyl, R-(+)-(4-nitrobenzenesulfonyloxy)-4-phenyl butyrate) Existing 0.3552 TPA, Proposed – 5.6448 TPA, Total 6.0 TPA
31. Production Details	11. Peridopril Erbumine Existing 0.0 MT/M, Proposed 0.17 MT/M, Total – 0.17 MT/M	11. Peridopril Erbumine Existing 0 TPA, Proposed – 2 TPA, Total 2 TPA
31. Production Details	12. TTR IV ((1ß,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione. Existing 0.0 MT/M, Proposed 0.1 MT/M, Total – 0.1 MT/M	12. TTR IV ((1ß,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione. Existing 0 TPA, Proposed – 1 TPA, Total 1 TPA
31. Production Details	13. FLY VIII (Benzyl(2S,3aS,7aS)-Octahydro-1H-Indole-2-carboxylate 4-Methylbenezenesulfonate) Existing 0.0 MT/M, Proposed 0.43 MT/M, Total – 0.43 MT/M	13. FLY VIII (Benzyl(2S,3aS,7aS)-Octahydro-1H-Indole-2-carboxylate 4-Methylbenezenesulfonate) Existing 0 TPA, Proposed – 5.2 TPA, Total 5.2 TPA
31. Production Details	14. PR-38 - 4-[2-(1-Azepanyl)Ethoxy] Benzyl Chloride Hydrochloride 15. PR-86 - t-butyl-hydroxycyclohexyl methacrylate 16. PR-88 - (2,3,4,6-TETRA-O-BENZYL-D-GALACTOSE) 17. PR-89 - ((S)-1-BOC-3-HYDROXY PIPERIDINE) 18. PR-91 - (S)-2-AMINO-5-Methoxytetraline Hydrochloride 19. PR-92 - (S)-1,2,3,4-Tetrahydro-5-methoxy -N-propyl-2-naphthalenamine hydrochloride 20. PR-115 (N-Decyl-N,N-Dimethyl-3- Ammonio-1 -propane- Sulphonate) 21. PR-116-(S)-(Tetrahydrofuran-3-Yl)Hydrazine Hydrochloride 22. PR-156 - (2-Bromo-4-nitro imidazole) 23. PR-178 - (S,S)-2,8-Diazabicyclo[4.3.0]nonane 24. PR-179-(3-HYDROXY-N-METHYL-3-PHENYL-PROPYLAMINE) 25. PR-181 - CHLOROMETHYL CHLORO SULFATE Existing 0.0 MT/M, Proposed 2.25 MT/M, Total – 2.25 MT/M Note - Combine production capacity of PR-38,PR-86,PR-88,PR-89,PR-91, PR-92, PR-115,PR-116,PR-156,PR-178,PR-179,PR-181, will be 2.25 TPM	14. PR-38 - 4-[2-(1-Azepanyl)Ethoxy] Benzyl Chloride Hydrochloride 15. PR-86 - t-butyl-hydroxycyclohexyl methacrylate 16. PR-88 - (2,3,4,6-TETRA-O-BENZYL-D-GALACTOSE) 17. PR-89 - ((S)-1-BOC-3-HYDROXY PIPERIDINE) 18. PR-91 - (S)-2-AMINO-5-Methoxytetraline Hydrochloride 19. PR-92 - (S)-1,2,3,4-Tetrahydro-5-methoxy -N-propyl-2-naphthalenamine hydrochloride 20. PR-115 (N-Decyl-N,N-Dimethyl-3- Ammonio-1 -propane- Sulphonate) 21. PR-116-(S)-(Tetrahydrofuran-3-Yl)Hydrazine Hydrochloride 22. PR-156 - (2-Bromo-4-nitro imidazole) 23. PR-178 - (S,S)-2,8-Diazabicyclo[4.3.0]nonane 24. PR-179-(3-HYDROXY-N-METHYL-3-PHENYL-PROPYLAMINE) 25. PR-181 - CHLOROMETHYL CHLORO SULFATE Existing 0 MTA, Proposed 27 MTA, Total – 27 MTA Note - Combine production capacity of (Sr. No 14 to 25) PR-38,PR-86,PR-88,PR-89,PR-91, PR-92, PR-115,PR-116,PR-156,PR-178,PR-179,PR-181, will be 27 TPA
33. Details of Total water consumed	Domestic: Consumption (Existing 5.5 CMD, Proposed 13 CMD, Total 18.5 CMD), Loss (Existing 1.1 CMD, Proposed 2.9 CMD, Total 4 CMD), Effluent (Existing 4.4 CMD, Proposed 10.1 CMD, Total 14.5 CMD)	Domestic: Consumption (Existing 5.5 CMD, Proposed 7.5 CMD, Total 13 CMD), Loss (Existing 1.1 CMD, Proposed 0.9 CMD, Total 2.0 CMD), Effluent (Existing 4.4 CMD, Proposed 6.6 CMD, Total 11 CMD)
33. Details of Total water consumed	Industrial Processing Consumption (Existing 21 CMD, Proposed 14 CMD, Total 35 CMD), Loss (Existing 8.6 CMD, Proposed 5.8 CMD, Total 14.4 CMD), Effluent (Existing 12.4 CMD, Proposed 8.2 CMD, Total 20.6 CMD)	Industrial Processing Consumption (Existing 3 CMD, Proposed 10 CMD, Total 13 CMD), Loss (Existing 0.5 CMD, Proposed 1 CMD, Total 1.5 CMD), Effluent (Existing 2.5 CMD, Proposed 9 CMD, Total 11.5 CMD)
33. Details of Total water consumed	Cooling tower & Thermopack Consumption (Existing 4 CMD, Proposed 1.5 CMD, Total 5.5 CMD), Loss (Existing 3.2 CMD, Proposed 1.2 CMD, Total 4.4 CMD), Effluent (Existing 0.8 CMD, Proposed 0.3 CMD, Total 1.11 CMD)	Cooling tower & Thermopack Consumption (Existing 4 CMD, Proposed 58 CMD, Total 62 CMD), Loss (Existing 2.7 CMD, Proposed 50.3 CMD, Total 53 CMD), Effluent (Existing 1.3 CMD, Proposed 7.7 CMD, Total 9 CMD)
33. Details of Total water consumed	Gardening Consumption (Existing 2 CMD, Proposed 4 CMD, Total 6 CMD), Loss (Existing 2 CMD, Proposed 4 CMD, Total 6 CMD), Effluent (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD)	Gardening Consumption (Existing 0 CMD, Proposed 6 CMD, Total 6 CMD), Loss (Existing 0 CMD, Proposed 6 CMD, Total 6 CMD), Effluent (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD)
33. Details of Total water consumed	Fresh water Requirement Consumption (Existing 32.5 CMD, Proposed 37.5 CMD, Total 65 CMD), Loss (Existing 14.9 CMD, Proposed 13.9 CMD, Total 28.8 CMD), Effluent (Existing 17.8 CMD, Proposed 18.6 CMD, Total 36.2 CMD)	Fresh water Requirement Consumption (Existing 12.5 CMD, Proposed 81.5 CMD, Total 94 CMD), Loss (Existing 4.3 CMD, Proposed 58.2 CMD, Total 62.5 CMD), Effluent (Existing 8.2 CMD, Proposed 23.3 CMD, Total 31.5 CMD)
34. Rain Water Harvesting (RWH)	i) Level of the Ground water table: will submit in EIA report ii) Size and no of RWH tank(s) and Quantity: will submit in EIA report iii) Location of the RWH tank(s): will submit in EIA report vi) Budgetary allocation (Capital cost): will submit in EIA report vii) Budgetary allocation (O & M cost): will submit in EIA report	i) Level of the Ground water table: 5-10 m ii) Size and no of RWH tank(s) and Quantity: 30 m3, 1 No. iii) Location of the RWH tank(s): Near fire water tank vi) Budgetary allocation (Capital cost): Rs. 4.05 Lakhs vii) Budgetary allocation (O & M cost): Rs. 10,000/A
35. Storm water drainage	i) Natural water drainage pattern: Provided by MIDC ii) Quantity of storm water: NA iii) Size of SWD: NA	i) Natural water drainage pattern: Provided as per natural slope ii) Quantity of storm water: 39.3 lit/s iii) Size of SWD: 0.5m x 0.5m
36. Sewage and waste water	i) Sewage generation KLD: 20 v) Budgetary allocation (Capital cost): Rs. 25,00,000 vi) Budgetary allocation (O & M cost): 100000	i) Sewage generation KLD: 11 v) Budgetary allocation (Capital cost): Rs. 22,00,000 vi) Budgetary allocation (O & M cost): Rs. 1.6 Lakhs/A
37. Solid waste Management b. Waste generation in the operation Phase	Dry Waste: NA	Dry Waste: Spent Carbon (Process): 50 TPA Spent Catalyst: 40 TPA ETP Sludge: 47 TPA MEE Salts: 185 TPA Distillation Residue: 90 TPA Process Waste & Residue: 40 TPA Contaminated Filter Bags: 1.2 TPA Discarded Drums: 2500 Nos/A
37. Solid waste Management b. Waste generation in the operation Phase	Wet Waste: NA	Wet Waste: Spent Mother Liquor/Solvent: 1600 TPA Used/spent oil: 90 TPA
37. Solid waste Management b. Waste generation in the operation Phase	Hazardous waste: kindly refer point no. 45	Hazardous waste: Spent Carbon (Process): 50 TPA Spent Catalyst: 40 TPA ETP Sludge: 47 TPA MEE Salts: 185 TPA Distillation Residue: 90 TPA Process Waste & Residue: 40 TPA Contaminated Filter Bags: 1.2 TPA Discarded Drums: 2500 Nos/A Spent Mother Liquor/Solvent: 1600 TPA Used/spent oil: 90 TPA
37. Solid waste Management b. Waste generation in the operation Phase	Biomedical waste (If applicable): NA	Biomedical waste (If applicable): 20 Kg/A
37. Solid waste Management b. Waste generation in the operation Phase	STP Sludge (Dry sludge): 250 kg	STP Sludge (Dry sludge): 2.0 TPA
37. Solid waste Management b. Waste generation in the operation Phase	Others if any: NA	Others if any: E-Waste: 0.1 TPA Battery waste: 0.5 TPA
37. Solid waste Management c. Mode of Disposal of waste:	Dry waste: NA	Dry waste: CHWTSDF or Sale to authorized party/recycler
37. Solid waste Management c. Mode of Disposal of waste:	Wet waste: NA	Wet waste: CHWTSDF or Sale to authorized party/recycler
37. Solid waste Management c. Mode of Disposal of waste:	Hazardous waste: CHWTSDF, MWML, Taloja	Hazardous waste: CHWTSDF or Sale to authorized party/recycler
37. Solid waste Management c. Mode of Disposal of waste:	Biomedical waste (If applicable): NA	Biomedical waste (If applicable): Authorized BMW disposal site
37. Solid waste Management c. Mode of Disposal of waste:	STP Sludge (Dry sludge): Will be used as manure for gardening	STP Sludge (Dry sludge): Used as manure

37. Solid waste Management c. Mode of Disposal of waste:	Others if any: NA	Others if any: Sale to authorized dismantlers / Recyclers/Buyback
37. Solid waste Management d. Area requirement	Location(s): Production Area, Raw Material & Products Storage Area, Office Building, STP & ETP , Parking	Location(s): Near ETP
37. Solid waste Management d. Area requirement	Area for the storage of waste & other material Dedicated area is allocated near ETP	Area for the storage of waste & other material : Dedicated storage area is provided to Hazardous waste storage
37. Solid waste Management d. Area requirement	Area for machinery: 1914 m2	Area for machinery: Not applicable
37. Solid waste Management E. Budgetary allocation (Capital cost and O&M cost)	i) Capital cost: Rs. 3423000000 ii) O & M cost Rs. 3400000	i) Capital cost Rs. 6.35 cr ii) O & M cost Rs. 73.75 Lakhs/A
38. Effluent Characteristics	Inlet Effluent Characteristics: Parameters (pH: 7-8, BOD: 2500-3500 mg/lit, COD 5000-6000 mg/lit, TDS: 2000-300 mg/lit, oil & grease: <20 mg/lit), Outlet Effluent Characteristics: Parameters (pH: ZLD, BOD: ZLD, COD: ZLD, TDS: ZLD, oil & grease: ZLD), Effluent discharge standards (MPCB): Parameters (pH: 5.5-9.0, BOD: <100 mg/lit, COD <2500 mg/lit, TDS: <2100 mg/lit, oil & grease: <10 mg/lit)	Multiple Effect Evaporator Inlet to MEE- Parameters (Flow: 11.77 CMD, pH: 6.5-7, COD 18000-19000 mg/lit, TDS: 30000-31000 mg/lit), Reject from RO- Parameters (Flow: 7 CMD, pH: 7.0-7.5, COD <200mg/lit, TDS: 6500-7500 mg/lit), Outlet from MEE- Parameters (Flow: 22.5 (18.77+3.73)CMD, pH: 7.0-7.5, COD 9000-10000 mg/lit, TDS: < 100 mg/lit),
38. Effluent Characteristics	--------	ETP treatment Inlet to primary- Parameters (Flow: 34.5 (12+22.5 evaporator outlet) CMD, pH: 6-6.5, COD 6000-6500 mg/lit, BOD3, 27°C 3000-3300 mg/lit, TDS: 1000-1500 mg/lit, TSS 150-200 mg/lit), Outlet from primary- Parameters (Flow: 34.5 CMD, pH: 7-7.5, COD 4000-5000 mg/lit, BOD3, 27°C 2000-2500 mg/lit, TDS: 1000-1500 mg/lit, TSS 50-100 mg/lit), Outlet from secondary- Parameters (Flow: 34.5 CMD, pH: 7-7.5, COD 600-650 mg/lit, BOD3, 27°C 50-100 mg/lit, TDS: 1000-1500 mg/lit, TSS 50-100 mg/lit), Outlet from tertiary- Parameters (Flow: 34.5 CMD, pH: 7-7.5, COD 200-250 mg/lit, BOD3, 27°C <100 mg/lit, TDS: 1000-1500 mg/lit, TSS 50-100 mg/lit),
38. Effluent Characteristics	--------	Reverse Osmosis Inlet to RO- Parameters (Flow: 34.5 CMD, pH: 7-7.5, TDS: 1000-1500 mg/lit), Permeate- Parameters (Flow: 27.5 CMD, pH: 7-7.5, TDS: <100 mg/lit), Reject- Parameters (Flow: 7 CMD, pH: 7-7.5, TDS: 6500-7500mg/lit),
38. Effluent Characteristics	Amount of effluent : 21.7 CMD	Amount of effluent generation (CMD) : Effluent from industrial Processing (8.5 CMD), from washing (3 CMD), cooling tower & boiler blow down (9.0 CMD) will be (20.5 CMD) treated in MEE,ETP and RO. Additional 3.2 CMD Effluent from plant D 53 & D 54 will also be treated in the same ETP. Out of that high COD and TDS from process 11.77 CMD along with RO reject 7 CMD will be treated in MEE. Low TDS stream 12 CMD along with treated effluent from MEE (18.77 CMD) and steam condensate (3.73 CMD) will be treated in conventional ETP, so the total effluent load considering RO reject 7 + steam condensate 3.73 will be 34.5 CMD. Unit will be a complete ZLD unit.
38. Effluent Characteristics	Amount of treated effluent Recycled: 35 CMD	Amount of treated effluent Recycled: 27.5 CMD
38. Effluent Characteristics	Membership of CETP (if require): Yes	Membership of CETP (if require): Not Applicable, ZLD Unit
38. Effluent Characteristics	Note on ETP technology to be used: Primary, Secondary, Tertiary, MEE & ZLD	Note on ETP technology to be used: High COD & TDS stream from process will be treated in Multi Effect Evaporator (MEE). Treated effluent and steam condensate from MEE along with Low COD and Low TDS stream will be treated in full-fledged ETP. Final treated water will be passed through RO and RO permeate is recycled and reused. RO reject is fed to MEE to achieve Zero Liquid Discharge.
39. Hazardous Waste Details	Spent Carbon- Cat. No 28.2 Existing 6.18 TPA, Proposed 00 TPA, Total 6.18 TPA Disposal CHWTSDF	Spent Carbon- Cat. No. 28.3 Existing 6.0 TPA, Proposed 44.0 TPA, Total 50.0 TPA. Disposal CHWTSDF
39. Hazardous Waste Details	Spent Mother Liquor/Solvent- Cat. No. 28.4 Existing 12 TPA, Proposed 6 TPA, Total 18 TPA Disposal Sale to authorized party	Spent Mother Liquor/Solvent- Cat. No. 28.6 Existing 120 TPA, Proposed 1480 TPA, Total 1600 TPA Disposal Sale to authorized party.
39. Hazardous Waste Details	ETP Sludge- Cat. No. 34.3 Existing 8.6 TPA, Proposed 8.1 TPA, Total 16.7 TPA Disposal CHWTSDF	ETP Sludge- Cat. No. 35.3 Existing 3.6 TPA, Proposed 43.4 TPA, Total 47 TPA Disposal CHWTSDF
39. Hazardous Waste Details	MEE Salts- Cat. No. 37.3 Existing 90 TPA, Proposed 179 TPA, Total 269 TPA Disposal CHWTSDF	MEE Salts- Cat. No. 35.3 Existing 90 TPA, Proposed 95 TPA, Total 185 TPA Disposal CHWTSDF
39. Hazardous Waste Details	Distillation Residue- Cat. No. 20.3 Existing 0 TPA, Proposed 1.2 TPA, Total 1.2 TPA Disposal CHWTSDF	Distillation Residue- Cat. No. 20.3 Existing 0 TPA, Proposed 90 TPA, Total 90 TPA. Disposal CHWTSDF
39. Hazardous Waste Details	Process Waste & Residue- Cat. No. 28.1 Existing 0 TPA, Proposed 3 TPA, Total 3 TPA Disposal CHWTSDF	Process Waste & Residue- Cat. No. 28.1 Existing 0 TPA, Proposed 40 TPA, Total 40 TPA Disposal. CHWTSDF
39. Hazardous Waste Details	Contaminated Filter Bags- Cat. No. 36.1 Existing 0 TPA, Proposed 1.2 TPA, Total 1.2 TPA Disposal CHWTSDF	Contaminated Filter Bags- Cat. No. 33.1 Existing 0 TPA, Proposed 1.2 TPA, Total 1.2 TPA. Disposal CHWTSDF
39. Hazardous Waste Details	Used/spent oil- Cat. No. 5.1 Existing 0 TPA, Proposed 5.4 TPA, Total 5.4 TPA Disposal Sale to authorized party	Used/spent oil- Cat. No. 5.1 Existing 0 TPA, Proposed 90 TPA, Total 90 TPA Disposal. Sale to authorized party
39. Hazardous Waste Details	--------	Spent Catalyst- Cat. No. 28.2 Existing 0 TPA, Proposed 40 TPA, Total 40 TPA. Disposal Regenerated through authorized recycler.
39. Hazardous Waste Details	--------	Discarded Drums- Cat. No. 33.1 Existing 0 Nos., Proposed 2500 Nos., Total 2500 Nos. Disposal Sale to authorized recycler.
39. Hazardous Waste Details	------	Other Waste: E-Waste- Existing 0 TPA, Proposed 0.1 TPA., Total 0.1 TPA Disposal Sale to authorized dismantlers / Recyclers.
39. Hazardous Waste Details	--------	Other Waste: Battery waste- Existing 0 TPA, Proposed 0.2 TPA., Total 0.2 TPA Disposal Returned to battery manufacturer through authorized dealer on buy back procurement
39. Hazardous Waste Details	--------	Other Waste: Biomedical Waste- Existing 0 TPA, Proposed 20 kg/A., Total 20 kg/A., Disposal Disposed to Authorized BMW disposal authority
39. Hazardous Waste Details	--------	Non Haz. Waste: Waste paper, Sweeping material, Etc. Existing 0 TPA, Proposed 0.5 TPA., Total 0.5 TPA Disposal Sale to authorized recycler
39. Hazardous Waste Details	--------	Non Haz. Waste: Pallet Existing 0 Nos., Proposed 1000 Nos., Total 1000 Nos. Disposal Sale to authorized recycler
39. Hazardous Waste Details	--------	Non Haz. Waste: STP Sludge Existing 0 TPA, Proposed 2.0 TPA., Total 2.0 TPA. Disposal Used as manure for gardening
40.Stacks emission Details	1. Section & units - Boiler (one stand by & one operating), Fuel Used with Quantity- FO = 2.04 T/Day, Stack No-01 combined stack, Height from Ground level (m)- 30, Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 125 OC	1. Section & units - Existing Boiler 2 TPH, Fuel Used with Quantity- 150 lit/day LDO will be replaced by FO 1020 Kg/d, Stack No-1, Height from Ground level (m)- 35 m combined, Internal Diameter (m)- 0.5, Temp. of Exhaust Gases- 135 OC
40.Stacks emission Details	----------	2. Section & units - Proposed Boiler 3 TPH, Fuel Used with Quantity- FO 3800 Kg/day or CNG 3200 Kg/Day, Stack No-1, Height from Ground level (m)- 35 m combined for both boilers, Internal Diameter (m)- 0.5, Temp. of Exhaust Gases- 135 OC
40.Stacks emission Details	2. Section & units - Thermo pack (one stand by & one operating), Fuel Used with Quantity- LDO = 510 lit/day, Stack No-01 combined stack, Height from Ground level (m)- 22, Internal Diameter (m)- 0.25, Temp. of Exhaust Gases- 150 OC	3. Section & units - Proposed Thermo pack 0.5 Lac Kcal/hr, Fuel Quantity- LDO 112 Kg/D, Stack No-1, Height from Ground level (m)- 22 m combined for both Thermopacks, Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 140 OC
40.Stacks emission Details	----------	4. Section & units - Proposed TFH 1.0 LacKcal/hr, Fuel Quantity- LDO 225 Kg/D, Stack No-1, Height from Ground level (m)- 22 m combined for both Thermopacks, Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 140 OC
40.Stacks emission Details	3. Section & units - DG Sets (no 02), Fuel Used with Quantity- HSD = 600 lit/month, Stack No-042 separate stack, Height from Ground level (m)- 4.2-5, Internal Diameter (m)- 0.15, Temp. of Exhaust Gases- 135 OC	5. Section & units - Existing DG 200 KVA, Fuel Quantity- HSD 55 Lit/hr, Stack No-1, Height from Ground level (m)- 4 m. above enclosure, Internal Diameter (m)- 0.25, Temp. of Exhaust Gases- 150 OC
40.Stacks emission Details	----------	6. Section & units - *Existing DG 250 KVA, Fuel Quantity- HSD 69 Lit/hr, Stack No-1, Height from Ground level (m)- 4.2 m. above enclosure, Internal Diameter (m)- 0.22, Temp. of Exhaust Gases- 150 OC
40.Stacks emission Details	----------	7. Section & units - Proposed DG 380 KVA, Fuel Quantity- HSD 95 Lit/hr, Stack No-1, Height from Ground level (m)- 5 m. above enclosure, Internal Diameter (m)- 0.25, Temp. of Exhaust Gases- 150 OC
40.Stacks emission Details	----------	Note:*DG set of 250 KVA will be replaced by DG set of 380 KVA
41.Details of Fuel to be used	Type of Fuel: LDO (Existing 150 lit/day, Proposed 360 lit/day, Total 510 lit/day)	Type of Fuel: LDO (Existing 150 kg/day, Proposed 187 kg/day, Total 337 kg/day).
41.Details of Fuel to be used	Type of Fuel: FO (Existing 00 lit/day, Proposed 2040 lit/day, Total 2040 lit/day)	Type of Fuel: FO (Existing 00 kg/day, Proposed 4820 kg/day, Total 4820 kg/day)

41.Details of Fuel to be used	Type of Fuel: HSD (Existing 420 lit/month, Proposed 180 lit/month, Total 600 lit/month)	Type of Fuel: HSD (Existing 0.5 lit/hr, Proposed 218.5 lit/hr, Total 219.0 lit/month)
41.Details of Fuel to be used	-------	Type of Fuel: CNG (Existing 00 kg/day, Proposed 3200 kg/day, Total 3200 kg/day)
44. Green Belt Development	i) Total RG Area:612 Sq.m	i) Total RG Area:1255.44 Sq.m
51. Details of pollution control Systems	Budgetary allocation (Capital cost and O&M cost) Capital cost:35 Lac O&M cost:7 Lac	Budgetary allocation (Capital cost and O&M cost) Capital cost:223.15 Lacs O&M cost:185.37/Annum
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	1. Component-Air pollution control, Description- 2 no. stacks, Capital cost Rs. In Lacs-10, Operational and Maintenance cost (Rs. In Lacs/yr)- 0.5	1. Component-Air pollution control, Description-Provision of new stack and increasing height of existing stack, Capital cost Rs. In Lacs-6.0, Operational and Maintenance cost (Rs. In Lacs/yr)- 3.7
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	2. Component- Water pollution, Description- ETP, Capital cost Rs. In Lacs-340, Operational and Maintenance cost (Rs. In Lacs/yr)- 16 3. Component- Domestic Effluent, Description- STP, Capital cost Rs. In Lacs-20, Operational and Maintenance cost (Rs. In Lacs/yr)- 1	2. Component- Water pollution control, Description- Maintenance of Existing ETP, MEE & RO and Provision of New STP, Capital cost Rs. In Lacs-208, Operational and Maintenance cost (Rs. In Lacs/yr)- 107.22
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	3. Component- Noise, Description- Acoustic enclosures, Capital cost Rs. In Lacs-5, Operational and Maintenance cost (Rs. In Lacs/yr)- nil	3. Component- Noise pollution Control, Description-Provision of New DG Set with acoustic enclosure, Capital cost Rs. In Lacs-2.8, Operational and Maintenance cost (Rs. In Lacs/yr)- 0.7
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	---------	4.Component- Occupational Health, Description-Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment, Capital cost Rs. In Lacs-7.11, Operational and Maintenance cost (Rs. In Lacs/yr)- 3.0
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	---------	5.Component- Environmental Monitoring Budget Description- Environmental Monitoring, Capital cost Rs. In Lacs-11, Operational and Maintenance cost (Rs. In Lacs/yr)- 7.1
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	---------	6.Component- Environmental Monitoring Budget Description- Environmental Monitoring, Capital cost Rs. In Lacs-11, Operational and Maintenance cost (Rs. In Lacs/yr)- 7.1
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	---------	7.Component- Hazardous waste Storage & disposal Description- Storage, Transportation and disposal, Capital cost Rs. In Lacs-6.35, Operational and Maintenance cost (Rs. In Lacs/yr)- 73.75
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	---------	8.Component- Green belt Description- Development & Maintenance, Capital cost Rs. In Lacs- 4.5, Operational and Maintenance cost (Rs. In Lacs/yr)- 1.7
54. Traffic Management	Parking area: 414 Sq.m	Parking area: 460.41 Sq.m
54. Traffic Management	Width of all internal roads: 3m	Width of all internal roads: 6m

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 in 140th meeting of SEAC-1 held on 21.07.2017 where in ToR was granted..

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

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

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 entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.

3. 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.

4. PP to submit copy of structural stability certificate of existing structures.

5. PP to submit design details of ETP and submit an undertaking for achieving Zero Liquid Discharge.

6. PP to submit hazardous chemical handling protocol.

7. PP to submit design details of scrubber and boiler stack.

8. PP to carry out HAZOP and QRA and submit report. PP to submit copy of on site/off site emergency plan.

9. PP to provide adequate lightening arrestors.

10. PP to submit qualitative and quantitative socio economic impact study report.

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

PP subbmitted the EIA/EMP for appraisal in 156th meeting wherein the proposal was deferred for following reason.

During deliberations with the PP and their accredited consultant it was observed that, PP doesnot have any green belt within the premises and propsoes it out side the plot boundary which is not acceptable as per OM issued by MoEF&CC dated 09.08.2018 which stipulates as below,

" The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department."

PP informed that, they will try to accomodate green belt within the premises and submit revised layout.

In view of above SEAC decided to defer the proposal till PP submits revised layout showing 33% green belt as per requirement.

The proposal was considered in the 158th meeting wherein the proposal was referred to the SEIAA for guidance on the following issue,

PP informed that, they have obtianed these different plots from different owners. The details of the plots are as below,

Sr.No	MIDC Plot No.	Plot Area in Sq.m.	Date of possession	Date of Amalgamatiomn	Name of earlier owner company	Name of Current Owner company
1	D-55	800	12.08.1979	10.08.2017	Alchemi Dye Chem Pvt. Ltd.	Aarti Industries Ltd.
2	D-56	720	13.08.1979	10.08.2017	Gem Chem Industries	Aarti Industries Ltd.
3	D-57	720	17.11.1979	10.08.2017	Medics Laboratories	Aarti Industries Ltd.
4	D-59	720	09.08.1979	10.08.2017	Argenta Chemical Pvt. Ltd.	Aarti Industries Ltd.
5	D-60	800	31.12.1979	10.08.2017	Auromic Chemicals	Aarti Industries Ltd.

During deliberations with the PP and their accredited consultant ,it is observed that, total plot area is not suffcient to accomodate 33% green belt. PP proposes 22% green belt within the plot area and propsoes remaining 11% on the adjacent area obtained from MIDC on lease for five years .

The OM issued by MoEF&CC dated 09.08.2018 stipulates as below,

" The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department."

SEAC is of the opinion that, PP can not fulfill the above requirement of green belt development on their industrial plot.

PP submitted that development of 33% green belt at the time of expansion of existing industry is not practically possible because old industrial plots having limitations of the plot size and requested to bring these facts to the notice of the SEIAA and seek their gudance.

In view of above, SEAC decided to refer the matter to the SEIAA for guidance whether deficit of 33% green belt can be compensated thorugh plantation on adjacent MIDC land taken on lease for compliance of the condition as stipulated in the OM issued by MoEF&CC dated 09.08.2018.

The SEIAA considerd the proposal in their 161st meeting held on 14.03.2019 wherein following instruction given to the SEAC-1.

".....In view of above authority decided to refer back the proposal to SEAC-1 allowing Aarti Industries to develop the deficit green belt (11.5%) out side the plot, on MIDC land with the permission of MIDC to meet the requirement of 33% of green belt."

As per directions given by the SEIAA, SEAC-1 considered the proposal in its 166th A meeting held on 14.06.2019 and decided as below,

"During deliberations it was observed that, PP propsoes to develop green belt along the periphery out side their plot on MIDC land for which registered lease agreement is yet to be executed between MIDC and PP.

Hence, SEAC-1 decided to defer the proposal till PP submits registered lease document mentioning therin lease period co-terminus with the lease agreement of the industrial plot of the PP."

Now PP submitted the documents.

DECISION OF SEAC

During deliberation it was also noticed that, the CPCB issued letter dated 25.10.2019 with reference to the Hon'ble NGT order dated 23.08.2019 and communicated the mechanism for environmental management of the Critically and Severely Polluted area and consideration of activities/projects in such areas in compliance to the Hon'ble NGT order dated 23.08.2019 in the matter of O.A. No. 1038/2018.

The mechanism for consideration of proposal for Environmental Clearance in the Critically and Severely Polluted area is mentioned as below,

para B : Consideration of proposals for grant of Environmental Clearance for new and expansion activities listed in the 'Red' and 'Orange' Categories located in the Critically Polluted Areas and Severely Polluted Areas:

i. Any project or activity specified in category B1 will be appraised at the Central level, if located in whole or in part within 5 km from the boundary of Critically Polluted Areas (CPA's) or Severely Polluted Areas (SPA's). However, Category B2 projects shall be considered at state level stipulating Environmental Clearance condition as applicable for Category B1 project/activities.

ii. Proposals located in CPAs and SPAs may be examined by the Sectorial Expert Appraisal Committee (EAC) during scoping/appraisal based on the CEPI scores of Air/Water/land Environment as published by CPCB from time to time. In such proposals, appropriate mitigation measures for the environment possessing higher score may be made bu EAC in the form of recommendations/decisions. These recommendations may be explicitly mentioned in the Terms of References/Environmental Clearance letter and to be ensured by the member secretary concerned.

The proposal under reference is located in the Navi Mumbai area which is placed at Sr. No. 51 in the Hon'ble NGT order dated 10.07.2019 which will have to be considered as category "A" proposal.

In view of above, SEAC-1 decided to refer the proposal to the SEIAA to confirm as above.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

172nd Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day -1)

SEAC Meeting number: 172 **Meeting Date** November 21, 2019

Subject: Environment Clearance for Environmental Clearance for the production of Pharmaceutical Excipients by G. M Chemical at plot no. C-233 and 234, TTC Industrial area, MIDC Pawane, Turbhe, Navi Mumbai

Is a Violation Case: No

1.Name of Project	Environmental Clearance for the production of Pharmaceutical Excipients by G. M Chemical at plot no. C-233 and 234, TTC Industrial area, MIDC Pawane, Turbhe, Navi Mumbai
2.Type of institution	Private
3.Name of Project Proponent	G.M. Chemical- Mr. Dhaval Mehta
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.; Plot No. F7, Road No.21, Wagle MIDC area, Near Ashida Electronics, Thane West 400604
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. C-233 & 234
9.Taluka	Thane
10.Village	Turbhe
Correspondence Name:	Mr. Dhaval Mehta
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Plot No. C-233 & C-234
Locality:	MIDC Pawane, TTC Industrial area
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	MIDC Pawane
12.IOD/IOA/Concession/Plan Approval Number	Approval from Maharashtra Industrial Development Corporation
	IOD/IOA/Concession/Plan Approval Number: Approval from MIDC through letter no. DE/ MHP (C) I/C-233/B27799 dated 12.04.2018
	Approved Built-up Area: 1475
13.Note on the initiated work (If applicable)	The Factory Building has been constructed. The Equipments will be installed and plant will be commissioned only after obtaining Environmental Clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
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.): 1475
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: 12-04-2018
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	100000000

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)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	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	Cellulose Acetate Pthalate	-	200	200
2	Hypromellose Pthalate	-	300	300
3	Poly Vinyl Acetate Pthalate	-	50	50
4	Cellulose Acetate Trimellitate	-	50	50

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	0	2	2	0	0.2	0.2	0	1.8	1.8
Industrial Process	0	120	120	0	12	12	0	108	108
Cooling tower & thermopack	0	30	30	0	0.3	0.3	0	29.7	29.7
Gardening	0	10	10	0	10	10	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2-2.5 m
	Size and no of RWH tank(s) and Quantity:	1 no. of tank ; 2.5 m x 2.5 m x 2 m with 10 m3 of capacity
	Location of the RWH tank(s):	Back side of the plot
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 3 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 10,000/ annum
	Details of UGT tanks if any :	Domestic Tank: 40 m3 Fire Tank: 20 m3
35.Storm water drainage	**Natural water drainage pattern:**	Natural drainage pattern has not been disturbed
	Quantity of storm water:	1.99 m3/s
	Size of SWD:	304 mm x 304 mm
Sewage and Waste water	**Sewage generation in KLD:**	15 m3/day
	STP technology:	Septic tank
	Capacity of STP (CMD):	-
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs. 1 Lakh
	Budgetary allocation (O & M cost):	Rs. 10,000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	-
	Disposal of the construction waste debris:	-
Waste generation in the operation Phase:	**Dry waste:**	3 kg/day
	Wet waste:	4.5 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	28.1 Process residue waste: 3 kg/day ; 35.3 Chemical sludge from waste water treatment: 2 kg/day ; Paper bags: 5 kg/day; Fiber board drums: 100 kg/day ; Recycled Plastic bags: 5 kg/day

Mode of Disposal of waste:	**Dry waste:**	Handed over to NMMC after segregation
	Wet waste:	Handed over to NMMC after segregation
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	28.1 Process residue waste: handed over to TTCWMA; 35.3 Chemical sludge from waste water treatment: handed over to TTCWMA; Paper: Sent to authorized recycler; Fiber board drums: Sent to authorized recycler ; Recycled Plastic bags: Sent to authorized recycler
Area requirement:	**Location(s):**	Scrap storage area
	Area for the storage of waste & other material:	9.2 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10,000
	O & M cost:	-

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.0-8.0	5.5-9.0	5.5-9.0
2	Total Suspended Solids	mg/l	403	100	100
3	Chemical Oxygen Demand	mg/l	6540	250	250
4	Biochemical Oxygen Demand	mg/l	1956	30	30
5	Total Dissolved Solids	mg/l	830	2100	2100
6	Oil and Grease	mg/l	61	10	10

Amount of effluent generation (CMD):	108 m3/day
Capacity of the ETP:	120 m3/day
Amount of treated effluent recycled :	Nil
Amount of water send to the CETP:	98 m3/day
Membership of CETP (if require):	Membership of TTC CETP will be obtained
Note on ETP technology to be used	MBBR
Disposal of the ETP sludge	The ETP Sludge will be disposed through TTCWMA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	-	-	-	-	-	-	-

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	Baby Boiler	Natural Gas	1	17 m	0.32 m	100 c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Natural Gas	-	5000 units/ month	5000 units/ month
41.Source of Fuel		Mahanagar Gas		
42.Mode of Transportation of fuel to site		Pipeline		

43.Green Belt Development	**Total RG area :**	450 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	20
	List of proposed native trees :	Cocos Nucifera, Mangifera Indica, Musa Acuminata, Pletophorum Pterocarpum, Saraca Asoca, Ficus Religiosa, Termilania Catappa, Azadirachta Indica
	Timeline for completion of plantation :	Already planted

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	Cocos Nucifera	Coconut	9	Fruit bearing tree
2	Mangifera Indica	Mango	2	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet
3	Musa Acuminata	Banana	2	Fruit bearing tree
4	Pletophorum Pterocarpum	Copper pod	2	It is deciduous tree growing 15-25m, it is widely grown in tropical regions as an ornamental tree
5	Saraca Asoca	Ashoka	2	The Ashoka is a rain-forest tree Its flowering season is around February to April. The Ashoka flowers come in heavy, lush bunches. They are bright orange yellow in color, turning red before wilting
6	Ficus Religiosa	Peepal	1	Ficus religiosa is used in traditional medicine for about 50 types of disorders including asthma, diabetes, diarrhea, epilepsy, gastric problems, inflammatory disorders, infectious and sexual disorders.
7	Termilania Catappa	Badam	1	Terminalia catappa is a large tropical tree The tree grows to 35 m The fruit is edible, tasting slightly acidic
8	Azadirachta Indica	Neem	1	Medicinal tree
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	-
	During Operation phase (Connected load):	149 kW
	During Operation phase (Demand load):	149 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	1x 150 kW
	Fuel used:	Natural Gas
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Use of energy efficient, BEE labeled electrical fixtures, in the building

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
-	-	-

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20 Lakhs
	O & M cost:	Rs. 20,000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust	Water sprinkling	0.20
2	Site Sanitation	Septic tank	0.10
3	Personal Protective Equipment	Jackets, Safety shoes, Helmets	0.20

4	Landscape	Plantation and Maintenance	0.10
5	First Aid Facilities	First Aid Kit	0.10

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Effluent Treatment Plant	ETP having capacity 120 m3/day	25	2
2	Landscape Development	Plantation	1	0.5
3	Solid Waste Management	-	0.1	-
4	Rain water Harvesting	Channelizing and maintenance of rain water harvesting	3	0.10
5	Storm Water drain	Channelizing and maintenance of Storm water drainage line	2	0.5
6	Environment Monitoring	Air, Water, Soil and Noise Monitoring	-	2

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
-	-	-	-	-	-	-	-

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 nos.

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	-
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	3 nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	None
	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

M/s G.M.Chemicals at Plot No. C-233 & 234, TTC Industrial Area, MIDC Pawane, Turbhe, Navi Mumbai submitted their proposal for the grant of ToR under category 5(f)B1 of the schedule attached to the EIA Notification, 2006 for the manufacturing of Pharmaceutical Excipients.

The proposal was considered in the 167th A meeting of SEAC-1 held on 30.07.2019 wherein the proposal was referred to the SEIAA for confimration of SEAC's view as mentioned below,

"

Secretary-SEAC-1 brought to the notice of the committee the order issued by Hon'ble National Green Tribunal, Principal Bench, New Delhi issued on 10.07.2019 in the Original Application No. 1038/2018 in the matter of News item published in "The Asian Age" Authored by Sanjay Kaw Titled "CPCB to rank industrial units on pollution levels"

In the para 11 of the above order, a list of latest CEPI score of 100 polluted industrial areas/clusters monitored during 2018 is given, in which the area of Navi Mumbai is placed at Sr. No. 51. Further Hon'ble National Green Tribunal in their order at para No. 28 mentioned which reads as below,

"....No further industrial activities or expansion be allowed with regard to 'red' and 'orange' category units till the said areas are brought within the prescribed parameters or till carrying capacity of area is assessed and new units or expansion is found viable having regard to the carrying capacity of the area and environmental norms."

SEAC-1 deliberated the issue at length with the PP and their accredited consultant, referred the list of CPCB with respect to the 'red' and 'orange' category and found that, the proposed project falls under the 'red' category.

In view of above, SEAC-1 is of the opinion that, the present proposal cannot be considered for appraisal until further directions in the matter pending before the Hon'ble National Green Tribunal.

Hence, SEAC-1 decided to refer the proposal to the SEIAA for confirmation of the above views or otherwise further guidance in the matter."

DECISION OF SEAC

SEIAA considered the proposal in their 179th meeting held on 02.11.2019 wherein following remark was given,

"After deliberations SEIAA decided to confirm above views of the SEAC and refer back the proposal to SEAC for further necessary action."

During deliberation, it was also noticed that, the CPCB issued letter dated 25.10.2019 with reference to the Hon'ble NGT order dated 23.08.2019 and communicated the mechanism for environmental management of the Critically and Severely Polluted area and consideration of activities/projects in such areas in compliance to the Hon'ble NGT order dated 23.08.2019 in the matter of O.A. No. 1038/2018.

The mechanism for consideration of proposal for Environmental Clearance in the Critically and Severely Polluted area is mentioned as below,

para B : Consideration of proposals for grant of Environmental Clearance for new and expansion activities listed in the 'Red' and 'Orange' Categories located in the Critically Polluted Areas and Severely Polluted Areas:

i. Any project or activity specified in category B1 will be appraised at the Central level, if located in whole or in part within 5 km from the boundary of Critically Polluted Areas (CPA's) or Severely Polluted Areas (SPA's). However, Category B2 projects shall be considered at state level stipulating Environmental Clearance condition as applicable for Category B1 project/activities.

ii. Proposals located in CPAs and SPAs may be examined by the Sectorial Expert Appraisal Committee (EAC) during scoping/appraisal based on the CEPI scores of Air/Water/land Environment as published by CPCB from time to time. In such proposals, appropriate mitigation measures for the environment possessing higher score may be made by EAC in the form of recommendations/decisions. These recommendations may be explicitly mentioned in the Terms of References/Environmental Clearance letter and to be ensured by the member secretary concerned.

The proposal under reference is located in the Navi Mumbai area which is placed at Sr. No. 51 in the Hon'ble NGT order dated 10.07.2019 and therefore will have to be treated as category "A".

In view of above, SEAC-1 decided to refer the proposal to the SEIAA to confirm as above.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.