148th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 148th **Meeting Date** February 26, 2018

Subject: Environment Clearance for Proposed Expansion of Existing Industrial Activity of M/s. Hemmo Pharmaceuticals Pvt. Ltd.

1.Name of Project	Proposed Expansion of Existing Industrial Activity of M/s. Hemmo Pharmaceuticals Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Haresh Ahuja
4.Name of Consultant	Building Environment (India) Pvt. Ltd.
5.Type of project	Industrial Estate - Industry 5(f) Category B
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No, PP has not obtained Environmental Clearance for existing project
8.Location of the project	C-43, Off Thane Belapur Road TTC MIDC, Near NOCIL RCD Square
9.Taluka	Thane
10.Village	Pawane Village
Correspondence Name:	Mr. Haresh Ahuja
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	C-43, Off Thane Belapur road TTC MIDC Pawane Village, Near NOCIL RCD Square, Maharashtra - 400613
Locality:	Pawane
City:	Thane
11.Area of the project	Industry is located in Turbhe MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 4474.14
13.Note on the initiated work (If applicable)	Existing Industry is already in operation & no work related to proposed expansion has been initiated.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	4631
16.Deductions	NA
17.Net Plot area	4631
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 4474.14
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 4474.14
19.Total ground coverage (m2)	4474.14
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	6158610

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 as it is an industry

24.Number of expected residents / users	This is an industry and Total expected population shall be 180 (Existing 140 and Proposed 40)
25.Tenant density per hectare	Not applicable as it is an industry
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12
29.Existing structure (s) if any	Admin Building, ETP, Electrical & AHU Room, DG Room, Boiler Room, Lab
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	Oxytocin – Bulk Drugs (In solution and Powder form)	0.004	0.002	0.006
2	Other Peptides (Leuprorelin, Desmopressin, Somatostatin, Tetracosactide,Gonadorelin, Calcitonin, Terlipressin, Octreotide, Buserelin, Decapeptide, Cetrorelix, Carbetocin, Bivalirudin, Goserelin, Triptorelin, Glatiramer, Linaclotide, Eptifibatide, Vasopressin	0.002	0	0.002

3	Other Peptides (Leuprorelin, Desmopressin, Somatostatin, Tetracosactide,Gonadorelin, Calcitonin, Terlipressin, Octreotide, Buserelin, Decapeptide, Cetrorelix, Carbetocin, Bivalirudin, Goserelin, Triptorelin, Glatiramer, Linaclotide, Eptifibatide, Vasopressin. Other Peptides: Salmon GnRH A, Atosiban, Degarelix, Exenatide, MBP Peptides, ACTH (Corticotropin), Glucagon, GL Peptide, Custom Peptides, Peptides/Amino Acid based peptides, Liraglutide, Abaloparatide, Teriparatide	0	0.002	0.002

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	187.5
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	2.0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	202.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	115
	Excess treated water	NA

Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	185.5
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	2.0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	200.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	115
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	15	05	20	4.5	1	5.5	10.5	4	14.5
Industrial Process	94.42	45.58	140	51.01	24.08	75.09	43.41	21.5	64.91
Cooling tower & thermopack	25	12.5	37.5	25	12.5	37.5	0	0	0
Gardening	2	0	2	2	0	2	0	0	0
Fresh water requirement	124.42	63.08	187.5	70.51	37.58	108.09	53.91	25.5	79.41

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	UGT having 2 Lakh Liters capacity is provided.
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	543.13
	Size of SWD:	340 mm * 260 mm
Sewage and Waste water	**Sewage generation in KLD:**	14.5 KLD
	STP technology:	Septic Tank
	Capacity of STP (CMD):	Septic Tank - 20 CMD
	Location & area of the STP:	Location of Septic tank is Next to ETP on West side of Plot
	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:**	Construction Debris
	Disposal of the construction waste debris:	The construction debris will be collected and suitably used on site as sub base of internal road and drive ways. Also it will be used for leveling low laying areas.
Waste generation in the operation Phase:	**Dry waste:**	Non-Biodegradable waste & Inert waste = 29.7 kg/day
	Wet waste:	Biodegradable waste = 24.3 kg/day
	Hazardous waste:	Spent Solvent = 75 m3/month, Process waste & residue = 137 kg/month, ETP sludge = 53.42 kg/month
	Biomedical waste (If applicable):	1200 Kg/year
	STP Sludge (Dry sludge):	Septic Tank Sludge = 78 kg/month
	Others if any:	Containers = 146470 Nos./Year

Mode of Disposal of waste:	**Dry waste:**	Sent to Navi Mumbai Municipal Corporation
	Wet waste:	Sent to Navi Mumbai Municipal Corporation
	Hazardous waste:	CHWTSDF and Sold to authorized Recycler/reprocessor
	Biomedical waste (If applicable):	CHWTSDF and Sold to authorized Recycler/reprocessor
	STP Sludge (Dry sludge):	NA
	Others if any:	Containers sold to authorized Recycler/ re-processor
Area requirement:	**Location(s):**	South West Corner of the plot
	Area for the storage of waste & other material:	Solvent Drum Storage = 29.35 sq.m.
	Area for machinery:	1000 m2
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	TDS	mg/l	2500	1800	2100
2	pH	-	6.5	7.5	5.5-9
3	BOD (3 Days 27 0C)	mg/l	150	100	100.0
4	Suspended Solids	mg/l	180	100	100.0
5	COD	mg/l	350	200	250.0

Amount of effluent generation (CMD):	64.91
Capacity of the ETP:	Existing = 50 CMD, Proposed = 25 CMD
Amount of treated effluent recycled :	37.5 CMD
Amount of water send to the CETP:	62.91
Membership of CETP (if require):	Receipt No. 2166 dated 27/07/2001 under SSI user Member Category
Note on ETP technology to be used	Fenton's Technology
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Solvent	20.2	m3/month	50.0	25.0	75.0	Authorize recycler/re-processor
2	Process waste & residue	28.1	kg/month	30.0	107.0	137.0	CHWTSDF
3	ETP Sludge	34.3	kg/month	43.42	10.0	53.42	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	DG Set 500 KVA*2	HSD = 200 lit/hr	2	9	0.2245	155 0C
2	Boiler (850 kg/hr*2)	PNG = 750 SCM/Day	2	21	0.3	150 0C

3	Process Reactor (150 litres)	NA	1	14	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	100.0 lit/hr	100.0 lit/hr	200.0 lit/hr
2	PNG	245 SCM/Day	505 SCM/Day	750 SCM/Day
41.Source of Fuel		Market and local Vendor		
42.Mode of Transportation of fuel to site		Truck and Tanker		

43.Green Belt Development	**Total RG area :**	239.64
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	NA	NA	NA
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	950 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	1400 KW
	During Operation phase (Demand load):	950 KVA
	Transformer:	1200 KVA
	DG set as Power back-up during operation phase:	500 KVA * 2
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Reactor	Ammonia Scrubber	NA

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control System	Scrubber	Nil	0.63
2	Water pollution Control System (ETP)	ETP	11.0	Nil

3	Solid waste Management	SWM	Nil	0.51

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
Amino Acid	Crystalline Solid	Solvent Drum Store	0.05	0.05	0.237	Vendor	By Sea/ Air
Resin	Solid and highly viscous	Solvent Drum Store	0.025	0.025	0.016	Vendor	By Sea/ Air
Reagents	Liquid	Solvent Drum Store	0.025	0.025	15.20	Vendor	By Sea/ Air
Solvent+ Water	Liquid	Solvent Drum Store	200 Lit	200 Lit	1320612.23 Lit	Vendor	By Sea/ Air

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	375.0
	Area per car:	30.0
	Area per car:	30.0
	Number of 2-Wheelers as approved by competent authority:	16
	Number of 4-Wheelers as approved by competent authority:	6
	Public Transport:	0
	Width of all Internal roads (m):	5.5
	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	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-08-2017

Brief information of the project by SEAC

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

DECISION OF SEAC

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.

Specific Conditions by SEAC:

1) PP to submit history of the proposed plot. 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 provide revised product list in the consolidated statement with maximum capping quantity for each product.
4) PP to submit copies of all the consent copies along with their manufacturing quantities.PP to submit details in the tabular format.
5) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
6) PP to submit product wise water balance along with quantities of effleunt generation, design of effluent treatment plant and dispsoal of treated effluent.
7) PP to provided packaged STP for the treatment of domestic sewage.
8) PP to carry out additional surface water sampling of the three lakes in the study area and submit revised EIA report.
9) PP to carry out HAZOP and QRA and submit report
10) PP to submit hazardous chemical handling protocol
11) PP to provide lightening arrestor.
12) PP to submit CETP NOC for additional effluent to be discharged to the CETP.
13) PP to include name and numbers of the trees in the consolidated statement.
14) PP to submit phase wise CSR plan including aviailabiity of funds , list of proposed activities with time lines for its implementation in consultation with the District Authorities. PP to maintain separate accounts for CSR/EMP funds.

FINAL RECOMMENDATION

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

148th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 148th **Meeting Date** February 26, 2018

Subject: Environment Clearance for Common Municipal Solid Waste Management Facility (CMSWMF) at Sector 3, Village Umbarde, Tal. Kalyan, Dist. Thane by Kalyan Dombivali Municipal Corporation.

1.Name of Project	Common Municipal Solid Waste Management Facility (CMSWMF) at Sector 3, Village Umbarde, Tal. Kalyan, Dist. Thane. Maharashtra.
2.Type of institution	Government
3.Name of Project Proponent	Kalyan Dombivali Municipal Corporation
4.Name of Consultant	ABC Techno Labs India Private Limited, A-355, Third Floor, Balaji Bhavan, Plot No. 42A, Sector 11, CBD Belapur, Navi Mumbai - 400614. Phone : +91-22-27580044 /55. E-mail: chaitanyasathe@abctechnolab.com
5.Type of project	Common Municipal Solid Waste Management Facility (CMSWMF)
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	Survey no - 33, 34P, 22P, 21P, 35, 36, 37P, 39P, 56, 57P, 58, 59, 30, 61, 62, 63P, 64P, 65P, 84P
9.Taluka	Kalyan
10.Village	Umbarde
11.Area of the project	Kalyan Dombivali Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Plan will be send to Planning authority KDMC as per MRTP act 1966 Clause 58
	Approved Built-up Area: 0.0
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	1,32,286.0 m2
16.Deductions	Not applicable
17.Net Plot area	72,000.0 m2
18.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.): 0.0
19.Total ground coverage (m2)	35,563.0 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.39 %
21.Estimated cost of the project	160000000

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)	9.0 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	Compost	Not applicable	18 % of toal waste quantity	18 % of toal waste quantity
2	RDF	Not applicable	20 % of toal waste quantity	20 % of toal waste quantity

32.Total Water Requirement

Dry season:	**Source of water**	KDMC/Tanker
	Fresh water (CMD):	6.0 m3/day
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	10.0 m3/day
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	73.9 m3/day
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	KDMC/Tanker
	Fresh water (CMD):	6.0 m3/day
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	63.9 m3/day
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	10.0 m3/day
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	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.90 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 :	2 tanks of 50000 liters

35.Storm water drainage	**Natural water drainage pattern:**	As per gravity
	Quantity of storm water:	0.930 Cum/Sec
	Size of SWD:	Not Applicable

Sewage and Waste water	**Sewage generation in KLD:**	4.0 m3/day
	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:**	10 Kg/day from laobour activity.
	Disposal of the construction waste debris:	Will be Utilized in low-land leveling & base preparation of internal roads. Some quantity of Excavation soil will be use for backfilling and remaining will be hand over to authorize vendor.
Waste generation in the operation Phase:	**Dry waste:**	10 Kg/day
	Wet waste:	5 Kg/day
	Hazardous waste:	Spent oil or oil grease for DG sets, paints etc.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste will be disposed off at site itself.
	Wet waste:	Wet waste will be disposed off at site itself.
	Hazardous waste:	Handed over to authorized Vendor/Recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On site disposal Facility
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.8	7.2	5.5 - 9.0
2	Dissolved solids	mg/l	3500	2000	2100
3	COD	mg/l	1700 mg/l	-	-
Amount of effluent generation (CMD):		15 m3/Day			

Capacity of the ETP:	20 m3/Day
Amount of treated effluent recycled :	100 % recycle
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	It is physiochemical treatment with extended aeration and biological treatment with pressure sand filter and activated carbon filter as tertiary treatment .
Disposal of the ETP sludge	Captive landfill

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/spent oil	5.1	Liters	Not applicable	15 liters	15 liters	Will be handed over to Authorized Recycler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set Stack	High speed diesel	1	10 m	0.3	125°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	High speed diesel	Not applicable	-	Will be required only in case of power failure
41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development

Total RG area :	6,600.0 m2
No of trees to be cut :	Not applicable
Number of trees to be planted :	180
List of proposed native trees :	Cassia Fistula, Neolamarckia Cadamba, Holoptelea Integrifolia, Holoptelea Integrifolia, Trema Orientalis, Oroxylum Indicum, Azadirachta Indica, Schleichera Oleosa, Xylia Xylocarpa, Bombax Ceiba, Terminalia Elliptica.
Timeline for completion of plantation :	With compleation of construction phase

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	15	ornamental plant in tropical and subtropical areas.It will grow well in dry climates. It is relatively drought-tolerant and slightly salttolerant. It will tolerate light brief frost too

2	Neolamarckia Cadamba	Kadamba	15	The fruit and inflorescences are reportedly edible by humans. The fresh leaves are fed to cattle.
3	Butea Monosperma	Palash	15	It is used for timber, resin, fodder, medicine, and dye. The wood is dirty white and soft and, being durable under water, is used for well-curbs and water scoops.
4	Holoptelea Integrifolia	Vavla	10	Bark and leaves are used for treating oedema, diabetes, leprosy and other skin diseases, intestinal disorders, piles and sprcue
5	Trema Orientalis	Ghol	15	The bark can be used for making string or rope, and used as waterproofing fishing-lines. In India and Tanzania, the wood is used to make charcoal.
6	Oroxylum Indicum	Tetu	20	The tree is often grown as an ornamental for its strange appearance. Materials used include the wood, tannins and dyestuffs.
7	Azadirachta Indica	Neem	10	Neem oil is used for preparing cosmetics such as soap, shampoo, balms, and creams as well as toothpaste
8	Schleichera Oleosa	Kusum	20	The tree is host to Kusumi Lac, which is native to India. Its seeds are the source of Kusum oil.
9	Xylia Xylocarpa	Jamba	12	The seeds of this tree are edible.This tree is considered a medicinal plant in India
10	Bombax Ceiba	Sawar	28	Splikes on the stem can be ground & applied to face for treatment against acne.
11	Terminalia Elliptica	Ain	20	Wood is used for furniture, cabinet work etc.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	M.S.E.D.C.L.
	During Construction Phase: (Demand Load)	15 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	-
	During Operation phase (Demand load):	250 KVA
	Transformer:	-
	DG set as Power back-up during operation phase:	125 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Not Applicable

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

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	Water for Dust Suppression	Dust control	1.0
2	Site Sanitation, Safety & Disinfection	Workers Health	2.0
3	Environmental Monitoring	Air, Water, Soil, Noise sampling & testing	4.0
4	Occupational Health	Health Check up	3.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Lechate Treatment Plant	Waste water treatment	15.0	4.0
2	Odour Control	Odour supression	5.0	-
3	Landscape	Tree plantation & gardening	15.0	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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	No. of the Junction: 1 No.
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):	-
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Nil in 10 Km Area.
	Category as per schedule of EIA Notification sheet	7 (i) Common Municipal Solid Waste Management Facility (CMSWMF)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-02-2016

Brief information of the project by SEAC

PP submitted application for the grant of TOR under category 7(i)B1 as per EIA Notification, 2006 to the earlier SEAC-1 to develop solid waste management facility at Umbarde to handle 350MT/Day of solid waste. There is a DP reservation for 10.2 Ha area which is situated 500 m from the river Ulhas. The then SEAC-1 considered the proposal in their 124th meeting held on 30th and 31st March, 2016 wherein ToR was approved and a site visit was proposed on 11.04.2016. Committee conducted the site visit as propsoed.

The site visit reprot of the sub committee is as below;

The SEAC-I sub-committee consisting of Shri. T.C. Benjamin, Chairman and three members viz. Shri. D. A. Hiremath, Shri. B.H.Sehgal and Dr. R. Dod visited the proposed two sites on 11.4.2016 in presence of Shri. E. Ravindren, Municipal Commissioner KDMC, Shri. G. Narangul, Executive Engineer KDMC and consultant ABC Techno labs.

1. Village Umbarde (Proposed integrated SWM facility)

Land use classification: reserved land for MSW Treatment facility

Plant capacity: 350 TPD

Land requirement: 102100 sq. m

Project cost: Rs. 17.46 cr.

: Rs. 250 cr. For waste to energy facility (incineration plant)

Location: google sheet

The observations of the sub-committee:

1. The said site is a vacant piece of land about 200m from the village boundary as per topo sheets.
2. Buffer zone details are required for such facility.
3. As the site is close to the RIVER hence details of High Flood Level (HFL) for 50/100 year flood be considered and marked.
4. Specific prevention measures are to be taken to arrest any leachate from the site entering into the river during fresh floods.
5. Ambient Air Quality Study as per the latest Terms of reference. However, the increments shall consider the moment of the vehicles and the segregation of the solid waste.
6. Odour control is must as the site is very close to the city and the surrounding villages.
7. Ground water sampling required as per model ToR prescribed by MoEF, at least for 8 places.
8. The last leg of the access roads as well as the internal roads for the proposed dumping grounds should be black topped to avoid dust generation.
9. The sub-committee strongly felt in both cases that unless effective and robust flood control structures are constructed along the river bank, the dumping grounds will be a threat to the environmental sanctity of the river.

During deliberation PP requested that, as the proposed site is reserved for solid waste management and objection and suggestion were obtained from public at the time of finalization of DP reservations hence Public Consulation as mentioned in the EIA Notification, 2006 to be exempted.

Committee after detailed deliberations and discussions with the PP and his accrediated consultant is of the view that, EIA Notification ,2006 requires Public Consultation for the projects falling under category A and B1. The propsoed project falls under category 7(i)B1 which requires Public Consultation as per para 7 III Stage (3) of the EIA Notification, 2006.

Hence, SEAC-I decided to defer the proposal till PP caary out Public Consultation as per EIA Notification,2006 and submits compliace of the issues raised during Public Consultation in revised EIA/EMP report.

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

DECISION OF SEAC

After detailed deliberations SEAC decided to defer the proposal till PP submits the compliance of below points.

Specific Conditions by SEAC:

1) PP to submit actual analysis report of the compost to be generated from proposed technology. PP to submit undertaking for not exceeding the standard limits of the compost as mentioned in the FCO.
2) PP to submit details on the applicability of the CRZ clearance.
3) PP to submit revised layout showing proposed area of the project.
4) PP to submit undertaking for 33% green area development. PP to submit revised EMP including cost required for the development of green belt.
5) The baseline data submitted by the PP shows contradiction like level of dissolved oxygen in the Ulhas ad Waldhuni river as well as high concentrations of the faecel coliform. PPto submit reasons for the same and motigation measures to reduce water pollution.
6) PP to submit alternate arrangement proposed for the treatment of domestic sewage instead of soak pits.
7) PP to submit revised socio economic status in the study area.
8) PP to submit point wise compliance of all the issues raised during Public Consultation and complaints received.
9) PP to submit compliance of point No. 5 of additional ToR given by SEAC.

FINAL RECOMMENDATION

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

Subject: Environment Clearance for Environment Clearance For Proposed 200 TPD Integrated Waste Management Facility At Barave, Kalyan By KDMC

1.Name of Project	Common Municipal Solid Waste Management Facility (CMSWMF) at Village Barave, Tal. Kalyan, Dist. Thane. Maharashtra.
2.Type of institution	Government
3.Name of Project Proponent	Kalyan Dombivali Municipal Corporation
4.Name of Consultant	ABC Techno Labs India Private Limited, A-355, Third Floor, Balaji Bhavan, Plot No. 42A, Sector 11, CBD Belapur, Navi Mumbai - 400614. Phone : +91-22-27580044 /55. E-mail: chaitanyasathe@abctechnolab.com
5.Type of project	Common Municipal Solid Waste Management
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	At sector- 3, Barave
9.Taluka	Kalyan
10.Village	Barave
Correspondence Name:	Executive Engineer SWH (Project) -Kalyan Dombivali Muncipal Corporation
Room Number:	NA
Floor:	NA
Building Name:	Kalyan Dombivali Municipal Corporation
Road/Street Name:	Kalyan
Locality:	NA
City:	Kalyan, Thane-421301
11.Area of the project	Kalyan Dombivali Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Planning authority KDMC as per MRTP act 1966
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	33918.00 m2
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
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)	9.0 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	compost	Not applicable	18 % of total waste quantity	18 % of total waste quantity
2	RDF	Not applicable	20 % of toal waste quantity	20 % of toal waste quantity

32.Total Water Requirement

Dry season:	**Source of water**	KDMC /tanker
	Fresh water (CMD):	6
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	24
	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**	KDMC /tanker
	Fresh water (CMD):	6
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	14
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	10
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	6	6	Not applicable	Not applicable	Not applicable	-	4	4
Industrial Process	0	18	18	Not applicable	Not applicable	Not applicable	0	15	15

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.90 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:**	As per Gravity
	Quantity of storm water:	0.930 Cum/Sec
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	4 m3/day
	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:**	insignificant quantity
	Disposal of the construction waste debris:	Will be Utilized in low-land leveling & base preparation of internal roads. Some quantity of Excavation soil will be use for backfilling and remaining will be hand over to authorize vendor.
Waste generation in the operation Phase:	**Dry waste:**	5 kg/day
	Wet waste:	5 kg/day
	Hazardous waste:	Spent oil or oil grease for DG sets, paints etc.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste will be disposed off at site itself.
	Wet waste:	Wet waste will be disposed off at site itself
	Hazardous waste:	Handed over to authorized Vendor/Recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On site disposal Facility
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

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

1	pH	-	6-8	7.2	-
2	Dissolved solids	mg/l	2000	2000	-
3	COD	mg/l	1700	< 100	-
4	BOD	mg/l	800	< 30	-

Amount of effluent generation (CMD):	15 m3/Day
Capacity of the ETP:	20 m3/Day
Amount of treated effluent recycled :	100 % recycle
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	It is physiochemical treatment with extended aeration and biological treatment with pressure sand filter and activated carbon filter as tertiary treatment .
Disposal of the ETP sludge	captive landfill

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/spent oil	5.1	Liters	Not applicable	15 Liters	15 Liters	Will be handed over to Authorized Recycler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set Stack	High speed diesel	1	10 m	0.3	125°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	High speed diesel	Not applicable	-	Will be required only in case of power failure

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

43.Green Belt Development	**Total RG area :**	Not applicable
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	180 approximately
	List of proposed native trees :	Cassia Fistula,Neolamarckia cadamba, Butea Monosperma,Holoptelea Integrifolia, Trema Orientalis,Oroxylum Indicum,Azadirachta Indica,Terminalia Elliptica,Bombax Ceiba,Xylia Xylocarpa,Schleichera Oleosa
	Timeline for completion of plantation :	with completion of construction phase

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	15	ornamental plant in tropical and subtropical areas.It will grow well in dry climates. It is relatively drought-tolerant and slightly salttolerant. It will tolerate light brief frost too
2	Butea Monosperma	Palash	15	It is used for timber, resin, fodder, medicine, and dye. The wood is dirty white and soft and, being durable under water, is used for well-curbs and water scoops.
3	Trema Orientalis	Ghol	15	The bark can be used for making string or rope, and used as waterproofing fishing-lines. In India and Tanzania, the wood is used to make charcoal.
4	Oroxylum Indicum	tetu	20	The tree is often grown as an ornamental for its strange appearance. Materials used include the wood, tannins and dyestuffs.
5	Azadirachta Indica	Neem	10	Neem oil is used for preparing cosmetics such as soap, shampoo, balms, and creams as well as toothpaste
6	Terminalia Elliptica	Ain	20	Wood is used for furniture, cabinet work etc.
7	Bombax Ceiba,	Sawar	28	Splikes on the stem can be ground & applied to face for treatment against acne.
8	Xylia Xylocarpa	Jamba	12	The seeds of this tree are edible.This tree is considered a medicinal plant in India
9	Schleichera Oleosa	Kusum	20	The tree is host to Kusumi Lac, which is native to India. Its seeds are the source of Kusum oil.
10	Neolamarckia cadamba	Kadamba	15	The fruit and inflorescences are reportedly edible by humans. The fresh leaves are fed to cattle.
11	Holoptelea Integrifolia	Vavla	10	Bark and leaves are used for treating oedema, diabetes, leprosy and other skin diseases, intestinal disorders, piles and sprcue
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	M.S.E.D.C.L.
	During Construction Phase: (Demand Load)	125 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	-
	During Operation phase (Demand load):	250 KVA
	Transformer:	-
	DG set as Power back-up during operation phase:	125 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

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	Water for Dust Suppression	Dust control	1.0
2	Site Sanitation, Safety & Disinfection	Workers Health	2.0
3	Environmental Monitoring	Air, Water, Soil, Noise sampling & testing	4.0
4	Occupational Health	Health Check up	3.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Lechate Treatment Plant	Waste water treatment	15.0	4.0
2	Odour Control	Odour supression	5.0	-
3	Landscape	Tree plantation & gardening	15.0	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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	No. of the Junction: 1 No
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Not applicable
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	Not applicable
	CRZ/ RRZ clearance obtain, if any:	Not applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	There is no protective area within 10 km
	Category as per schedule of EIA Notification sheet	7 (i) Common Municipal Solid Waste Management Facility (CMSWMF)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	29-02-2016

Brief information of the project by SEAC

PP obtained ToR in the 126th meetin gof SEAC -I held on 29th and 30th April,2016.

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

DECISION OF SEAC

After deliberations with the PP, SEAC decided to defer the proposal till PP submits the compliance of below points.

Specific Conditions by SEAC:

1) PP to submit undertaking for 33% green area development. PP to submit revised EMP including the cost required for the development of green belt.
2) PP to carry out sampling of additional surface water bodies in the study area and include the same in the EIA report.
3) PP to provide Sewage Treatment Plant instead of proposed soak pits.
4) PP to submit actual analysis report of the compost to be generated from proposed technology. PP to submit undertaking for not exceeding the standard limits parameters of the compost mentioned in the FCO.
5) PP to submit revised socio economic status in the study area along with revised EMP cost required for development of green belt.
6) PP to submit point wise compliance of the issues raised during the Public Hearing and complaints received.
7) PP to ascertain the flood line and submit revised compliance of the point No. 1, 3, 4, 5 of the additional ToR points given by SEAC.
8) PP to submit details on the applicability of the CRZ clearance.

FINAL RECOMMENDATION

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

148th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 148th **Meeting Date** February 26, 2018

Subject: Environment Clearance for EXPANSION FROM 2500 TO 9000 TCD SUGAR UNIT AND ESTABLISH 36 MW CO GENERATION POWER PLANT IN EXISTING SUGAR INDUSTRY

1.Name of Project	Cane Agro Energy (I) Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Cane Agro Energy (I) Ltd.
4.Name of Consultant	Saitech Research & Development Organization (Association with Green Circle Inc.)
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	environmental clearance
8.Location of the project	118 To 123, 135, 137 to 143, 145 to 153
9.Taluka	Kadegaon
10.Village	At - Riagaon, Post - Hingangaon
Correspondence Name:	Dr. Jaykar Patil
Room Number:	Cane Agro Energy (I) Ltd
Floor:	NA
Building Name:	Cane Agro Energy (I) Ltd
Road/Street Name:	Karad to Mayani Road
Locality:	Raigaon
City:	Kadegaon
11.Area of the project	Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Grampanchayat NOC
	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)	Not applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
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	2675500000

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	Sugar	8250	21450	29700
2	Co-gen	0	36	36

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	31	42	73	1	2	3	30	40	70
Industrial Process	540	705	1245	340	617.4	957.4	200	87.6	287.6
Cooling tower & thermopack	0	395	395	0	325.3	325.3	0	69.7	69.7
Industrial Process	0	628	628	0	0	0	0	628	628
Cooling tower & thermopack	0	0	0	0	0	0	0	442	442

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3
	Size and no of RWH tank(s) and Quantity:	10 soak pits of size 3x6.5x3 lit.
	Location of the RWH tank(s):	Near Factory Primisses
	Quantity of recharge pits:	10 soak pits of size 3x6.5x3 lit.
	Size of recharge pits :	10 soak pits of size 3x6.5x3 lit.
	Budgetary allocation (Capital cost) :	• Budgetary allocation (Capital cost and O&M cost)-
	Budgetary allocation (O & M cost) :	• Budgetary allocation (Capital cost and O&M cost)-
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	2
	STP technology:	disposed through septic tank and Soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	00
	Budgetary allocation (O & M cost):	0

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	60 Kg/D ETP Sludge
	Disposal of the construction waste debris:	The sludge is utilized for composting / organic manure with the press mud.
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	60 Kg/D
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	The sludge is utilized for composting / organic manure with the press mud.
	Others if any:	NA
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	pH	-	11-13	7.5-8.5	5.5- 9.0
2	COD	mg/l	1000-1500	200-240	250
3	BOD	mg/l	500-1000	90-95	100
4	O and G	mg/l	60-80	7-9	10
5	TDS	mg/l	5000-6000	1800-2000	2100
6	SS	mg/l	700-900	80-100	100
7	Chlorides	mg/l	1200-1300	560-590	600
8	Sulphates	mg/l	1500-1700	800-900	1000

Amount of effluent generation (CMD):	1427.3
Capacity of the ETP:	1500
Amount of treated effluent recycled :	500
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	The sludge is utilized for composting / organic manure with the press mud.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	Kg/A	500	800	1200	Burn to Boiler
2	Sludge from treatment of waste water	33.2	Kg/A	300	1200	1500	The sludge is utilized for composting / organic manure with the press mud.

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	Bagasse	1	72	3	250

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	600	1200	1800
41.Source of Fuel		Own Generation Bagasse		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development	**Total RG area :**	6.0 Acre
	No of trees to be cut :	NA
	Number of trees to be planted :	7500
	List of proposed native trees :	Local
	Timeline for completion of plantation :	Time to Time

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	Power supply: • Existing power requirement: MSEB • Proposed power requirement: by Power Generation
	During Construction Phase: (Demand Load)	Power supply: • Existing power requirement: MSEB • Proposed power requirement: by Power Generation
	DG set as Power back-up during construction phase	Number and capacity DG sets to be used (existing and proposed): ..Number 2.& Capacity 320KVA 500KVA
	During Operation phase (Connected load):	Power supply: • Existing power requirement: MSEB • Proposed power requirement: by Power Generation
	During Operation phase (Demand load):	Power supply: • Existing power requirement: MSEB • Proposed power requirement: by Power Generation
	Transformer:	Power supply: • Existing power requirement: MSEB • Proposed power requirement: by Power Generation
	DG set as Power back-up during operation phase:	Number and capacity DG sets to be used (existing and proposed): ..Number 2.& Capacity 320KVA 500KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler 1 2 and 2	Wet Scrubber	ESP

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Emission control Engineering	NA	2.25
2	Water & Wastewater management	Water & Wastewater management	4.5
3	Solid Waste	Solid Waste	1.16
4	Greening Drive	Greening Drive	0.20
5	Monitoring	Monitoring	0.11
6	Environmental Cell & PR	Environmental Cell & PR	0.24

7	Other aspects like Rain Water Harvesting, Safety, Security etc.	Other aspects like Rain Water Harvesting, Safety, Security etc.	0.24

b) Operation Phase (with Break-up):

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

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:	Yes
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2 Acre
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

DECISION OF SEAC

During deliberations, it was observed that the proposal was already recommended by SEAC-I in their 136th meeting held on 5th October, 2016.

In view of above SEAC decided to forward proposal to the SEIAA.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Subject: Environment Clearance for Application for obtaining Environment Clearance for Enhancement in Production Capacity from 2500 TPA to 7500 TPA of Dhobitola Iron Ore Mine, Area 2.61 Ha; Village- Dhobitola, Tehsil- Amgaon, Dist- Gondia, Maharashtra,

1.Name of Project	Dhobitola Iron Ore Mine
2.Type of institution	Private
3.Name of Project Proponent	M/s Jayaswal NECO Industries Limited
4.Name of Consultant	Srushti Seva Private Limited, Nagpur
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance
8.Location of the project	Survey Nos. 281, 283, 284
9.Taluka	Amgaon
10.Village	Dhobitola
Correspondence Name:	M/s Jayaswal NECO Industries Limited
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Hingna Road,
Locality:	F-8, MIDC Industrial Area,
City:	Nagpur - 400016
11.Area of the project	Other 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)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
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	10116000

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	Iron Ore	208.33	416.67	625

32.Total Water Requirement

Dry season:	**Source of water**	Borewell
	Fresh water (CMD):	6
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	6
	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**	Borewell
	Fresh water (CMD):	2
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2
	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	2	Nil	2	2	Nil	2	Nil	Nil	Nil
Gardening	4	Nil	4	4	Nil	4	Nil	Nil	Nil
Fresh water requirement	6	Nil	6	6	Nil	6	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8 to 11 during pre-monsoon season
	Size and no of RWH tank(s) and Quantity:	None
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	2 Recharge trenches, and 4 Recharge Pits
	Size of recharge pits :	Recharge trenche size 3 m (l) x 1.0 m (w) x 1.5 m (d) each, Recharge Pit size 1 m (l) x 1.0 m (w) x 1.5 m (d) each
	Budgetary allocation (Capital cost) :	100000
	Budgetary allocation (O & M cost) :	10000
	Details of UGT tanks if any :	Not Applicable

35.Storm water drainage	**Natural water drainage pattern:**	Not Applicable. However, the storm water due to rainfall will be channelized to the natural water courses like gullies and depression through appropriate drainage system with check bunds.
	Quantity of storm water:	Rainfall runoff
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	Nil
	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:**	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	6855 m3 during conceptual period.
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Nil
Mode of Disposal of waste:	**Dry waste:**	Dry waste partly utilized for haul road, village road and rest will be stacked on OB dump
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	In non-mineralized zone.
	Area for the storage of waste & other material:	840 sqm
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable
37.Effluent Charecterestics		

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Nil			
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	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Not Applicable
	No of trees to be cut :	Nil
	Number of trees to be planted :	1750
	List of proposed native trees :	Azadirachta indica, Terminalia elliptica, Butea monosperma, Madhuca indica, Ziziphus mauritiana
	Timeline for completion of plantation :	Upto the end of mine life

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Kadulimb	350	Created to intercept dust, gaseous pollutants and noise
2	Terminalia elliptica	Ain	350	Created to intercept dust, gaseous pollutants and noise

3	Butea monosperma	Palas	350	Created to intercept dust, gaseous pollutants and noise
4	Madhuca indica	Moha	350	Created to intercept dust, gaseous pollutants, noise and fruits
5	Ziziphus mauritiana	Bor	350	Created to intercept dust, gaseous pollutants, noise and fruits
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	Commercial connection
	During Operation phase (Demand load):	Commercial connection
	Transformer:	No
	DG set as Power back-up during operation phase:	No
	Fuel used:	Nil
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

It is proposed to install 5 Solar Light poles within mining lease area to saving energy by non-conventional method.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar light	-

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution Control	Dust Suppression	Dust Suppression
Air Pollution Control	-	Air Pollution Monitoring (To be done by external agency)

Water Pollution Control	-	Garland drain, Boulder Check plug, Soak Pits, Mine water sedimentation pond

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50000
	O & M cost:	5000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable	Not Applicable	Not Applicable

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Plantation /Reclamation	Biological reclamation, Plantation, Reclamation (Dump)	200000	50000
2	Occupational Health	Fire Fighting Equipments (portable), Personnel protection equipments (goggles , gloves, helmets, dust mask, safety boots)	100000	50000

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
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Not Applicable
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

DECISION OF SEAC

During discussion with the PP it was observed that PP has not filled the required information in the consolidated statement and was not having adequate information of the proect.

In view of above SEAC decided to defer the proposal till PP submits the required information for the appraisal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Subject: Environment Clearance for Manufacturing (repackaging of inorganic solid chemicals) and distribution centre for hazardous and non hazardous chemicals of M/S Merck Life Science Private Limited

1.Name of Project	Manufacturing (repackaging of inorganic solid chemicals) and distribution centre for hazardous and non hazardous chemicals of M/S Merck Life Science Private Limited
2.Type of institution	Private
3.Name of Project Proponent	Merck Life Science Private Limited
4.Name of Consultant	ERm India Private Limited
5.Type of project	Industrial Project (category 6(b)-Isolated storage & handling of hazardous chemicals (As per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000)
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 A-2/1, MIDC Patalganga Borivali Industrial Area
9.Taluka	Khalapur
10.Village	Borivali
Correspondence Name:	Mr. Sagar Jadhav, Head- EHS & Country Coordinator India
Room Number:	NA
Floor:	8th Floor
Building Name:	Godrej One
Road/Street Name:	Pirojshanagar
Locality:	Vikhroli East
City:	Mumbai- 400079
11.Area of the project	MIDC Patalganga Borivali Industrial Area
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 27934
13.Note on the initiated work (If applicable)	None
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	38445 sqm
16.Deductions	10511 sqm
17.Net Plot area	27934 sqm
18.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.): 12054
19.Total ground coverage (m2)	9354 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24%
21.Estimated cost of the project	1300000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Central Warehouse and down-filling building	Ground + first floor	18 m

2	PESO building	Ground floor	8.5 m
3	Utility Building	Ground + first floor	10.95 m
4	Site security building	Ground floor	4.0 m
5	Truck driver & contract worker amenity block	Ground floor	3.95 m
6	Scrap yard	Ground floor	4.6 m

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)	proposed road of 30 m by MIDC
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	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	Class 3 (Flammable liquids)- storage only	0	500 KL/Month	500 KL/Month
2	Class 4 flammable solids- storage only	0	10 MT /Month	10 MT/Month
3	Class 4 flammable solids- repackaging & storage	0	10 MT /Month	10 MT/Month
4	Class 5 Oxidizing substances - storage only	0	40 T /Month	40 T/Month
5	Class 5 Oxidizing substances – Repackaging & Storage	0	10 T/Month	10 T/Month
6	Class 6 Toxic substances -storage only	0	73 MT/Month	73 MT/Month

7	Class 6 Toxic substances - Repackaging & Storage	0	7 MT/Month	7 MT/Month
8	Class 8 Corrosive Chemicals- storage only	0	260 T/Month	260 T/Month
9	Class 8 Corrosive Chemicals - Repackaging & Storage	0	40 T/Month	40 T/Month
10	Class 10 Other combustible liquids; Class 11 Other combustible solids; Class 12 Other non-combustible liquids ; Class 13 other non-combustible solids ; Class 10-13 other combustible and non-combustible substances - storage only	0	420 MT/Month	420 MT/Month
11	Class 10 Other combustible liquids; Class 11 Other combustible solids; Class 12 Other non-combustible liquids ; Class 13 other non-combustible solids ; Class 10-13 other combustible and non-combustible substances - repackaging and storage	0	130 MT/Month	130 MT/Month

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	98.5
	Recycled water - Flushing (CMD):	2.25
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	107
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	0

Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	80.5
	Recycled water - Flushing (CMD):	2.25
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	89
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	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	7	7	0	0.7	0.7	0	6.3	6.3
Industrial Process	0	2	2	0	0	0	0	2	2
Cooling tower & thermopack	0	78	78	0	77	77	0	1	1
Gardening	0	20	20	0	20	20	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7.5 m to 7.8 m below ground surface
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	2 nos.
	Size of recharge pits :	4m x 3 m and 3m x3 m
	Budgetary allocation (Capital cost) :	20 lakhs
	Budgetary allocation (O & M cost) :	3 lakhs
	Details of UGT tanks if any :	Two underground fire water tanks (1000 cum each) are proposed. One of which will remain empty and will be used as fire water retention tank

35.Storm water drainage	**Natural water drainage pattern:**	The natural drainage is from SW to NE direction. Same will be maintained during project development
	Quantity of storm water:	1000 cum
	Size of SWD:	200 mm to 600 mm diameter
Sewage and Waste water	**Sewage generation in KLD:**	6.3 KLD
	STP technology:	ETP based on Aerobic Moving Bed Bio Reactor technology
	Capacity of STP (CMD):	1 ETP of 11 KLD capacity
	Location & area of the STP:	In North -west portion of the site; 200 sqm
	Budgetary allocation (Capital cost):	45 lakhs
	Budgetary allocation (O & M cost):	10 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Approximate 1-2 MT/day of construction debris; ~60 kg/day of municipal waste; ~1 MT per month packaging waste
	Disposal of the construction waste debris:	Disposal of the construction waste debris: The recyclable waste such as metal scrap, plastics will be sold out to vendors. About 90% of the debris will used to level low lying areas within the project site and the rest will be disposed to designated disposal site as approved by local authority
Waste generation in the operation Phase:	**Dry waste:**	16 kg/day
	Wet waste:	24 kg/day
	Hazardous waste:	Spent chemicals- 60 TPA; Empty barrels/containers/liners contaminated with hazardous chemicals /wastes- 100 TPA; Contaminated cotton rags or other cleaning Materials- 1 TPA; Chemical sludge from waste water treatment: 5 kg/day
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	ETP Sludge: 5 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Through Local Authority
	Wet waste:	Through Local Authority
	Hazardous waste:	TSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	TSDF
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	In northern part of the site
	Area for the storage of waste & other material:	55 sqm area for the storage of scrap materials; 12.25 sqm for hazardous waste
	Area for machinery:	Not Applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 Lakhs
	O & M cost:	2 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6-8	5.5- 8.5	5.5- 8.5
2	TSS	mg/l	435	<100	100
3	TDS	mg/l	3445	<2000	<2100
4	BOD	mg/l	778	<100	100
5	COD	mg/l	4417	<250	250
6	Oil and Grease	mg/l	18	<10	30

Amount of effluent generation (CMD):	2 CMD
Capacity of the ETP:	11 CMD
Amount of treated effluent recycled :	100%
Amount of water send to the CETP:	0
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Technology to be used: Aerobic Moving Bed Bio Reactor system
Disposal of the ETP sludge	TSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent chemicals	32.1	TPA	0	60	60	TSDF
2	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	33.1	TPA	0	100	100	TSDF
3	Contaminated cotton rags or other cleaning Materials	33.2	TPA	0	1	1	TSDF
4	Chemical sludge from waste water treatment	34.2	kg/day	0	5	5	TSDF

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- 750 KVA	HSD; 120 Litters/Hour	1	16.5 m	30 cm	476oC
2	DG set- 250 KVA	HSD; 40 Litters/Hour	2	13.6 m	15 cm	476oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	120 Litters/Hour for 750 KVA DG set and 40 Litters/Hour for 250 KVA DG set	120 Litters/Hour for 750 KVA DG set and 40 Litters/Hour for 250 KVA DG set

41.Source of Fuel	Local vendors
42.Mode of Transportation of fuel to site	in 100 litre barrels by road.

43.Green Belt Development	**Total RG area :**	3844.50 sqm
	No of trees to be cut :	Detailed assessment will be done
	Number of trees to be planted :	385 trees
	List of proposed native trees :	Neem, Gulmohar, Ajaan, Champa, Karanj etc.
	Timeline for completion of plantation :	6 months post commissioning of site

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	15	Evergreen tree; Buffer planting-Visual and Acoustic; Soil Amelioration
2	Alstonia scholaris	Scholars tree	75	Evergreen tree; Feature planting
3	Bahunia purpurea	Butterfly Tree	50	Flowering tree
4	Bahunia racemose	Bidi Leaf Tree	50	Deciduous tree; Soil Amelioration
5	Cassia Fistula	Golden Cassia	60	Flowering tree; Soil amelioration
6	Cordia sebestena	Lal Lasora	50	Flowering tree; Avenue planting
7	Delonix regia	Gulmohar Tree	20	Flowering tree; Feature planting
8	Ehretla laevis	Ajaan	15	Deciduous tree; Feature planting
9	Michelia champca	Champa	50	Flowering tree; Avenue planting
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Ltd
	During Construction Phase: (Demand Load)	500 KVA
	DG set as Power back-up during construction phase	250 kVA
	During Operation phase (Connected load):	1703 KW
	During Operation phase (Demand load):	708 KW
	Transformer:	1 no.
	DG set as Power back-up during operation phase:	2 DG sets (750 KVA and 250 KVA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

- LED lighting
- High bay LED lighting with built-in occupancy sensor at identified locations
- HVAC: on a variable air volume system
- Chiller: screw chiller for energy efficiency.
- Air compressor: variable speed screw compressor

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	energy conservation measures	20-25%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Sets	Not Applicable	Stack height of 16.5m and 13.6 m; Acoustic Enclosure

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20 Lakhs
	O & M cost:	3 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	Provision of adequate drainage and bunds/ diversion dykes, water sprinkling etc. to prevent soil/ raw material escape	-	20

2	Development of vegetation and landscaping	-	30
3	Toilets for workers and sewage disposal facility	-	12
4	Environmental monitoring	-	3
5	Miscellaneous expenses for construction phase EMP implementation	-	5
6	Waste Management	-	5
7	Health and Safety	-	7

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Wastewater management	ETP	45	10
2	Rainwater harvesting	Rainwater harvesting pits	20	3
3	Waste management	solid and hazardous waste management	18	2
4	Environment Monitoring	Ambient Air quality, stack monitoring, ambient noise, water and wastewater quality	0	10
5	Green belt	Green belt and landscape maintenance	0	5
6	Energy	Energy conservation measures	20	3
7	Environment, Health & Safety	EHS training and EMP evaluation	10	10
8	House keeping	House keeping	5	10

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
Class 3 (Flammable liquids)	proposed	PESO building	500 KL	500 KL	nil	Imported and local	Air, sea and surface transportation
Class 4 flammable solids	proposed	Warehouse and downfiling building	20 MT	20 MT	nil	Imported and local	Air, sea and surface transportation
Class 5 Oxidizing substances	proposed	Warehouse and downfiling building	50 T	50 T	nil	Imported and local	Air, sea and surface transportation

Class 6 Toxic substances	proposed	Warehouse and downfiling building	80 T	80 T	nil	Imported and local	Air, sea and surface transportation
Class 8 Corrosive Chemicals	proposed	Warehouse and downfiling building	300 T	300 T	nil	Imported and local	Air, sea and surface transportation
Class 10 Other combustible liquids; Class 11 Other combustible solids; Class 12 Other non-combustible liquids; Class 13 other non-combustible solids; Class 10-13 other combustible and non-combustible substances	proposed	Warehouse and downfiling building	550 MT	550 MT	nil	Imported and local	Air, sea and surface transportation

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no.
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	2793 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	56 (as per MIDC requirement)
	Number of 4-Wheelers as approved by competent authority:	73 (as per MIDC requirement)
	Public Transport:	Nil
	Width of all Internal roads (m):	minimum 6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Karnala Bird Sanctuary: ~ 4.8 km aerial distance; Matheran: ~8 km aerial distance
	Category as per schedule of EIA Notification sheet	6(b)-Isolated storage & handling of hazardous chemicals (As per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000)

	Court cases pending if any	There is no specific court case against proposed project site/ project. However, there is a PIL against allotment of land by MIDC to any new Industry in industrial estate situated on river banks
	Other Relevant Informations	Merck life science is in the laboratory chemical business and serving almost 50000 SKU's from 10 mg, 10ml to 25kg and 200 L. Imported chemicals comes with UN certified boxes with UN transport class label as well as GHS product label compiling international regulation such as IMDG, IATA and Orange book. Merck also export chemical by compiling to above said regulation. A good amount of local supply is been taken care by air frights by ensuing IATA. Storage of number of chemicals, have compatibility risk as there are classes in the portfolio which are non compatible with each other (for example class 5 and class 3) as well as there are chemical with sub classes incompatible within the class for example as in class 4 subclass 4.1A has in compatibility with class 4.1B, 4.2 and 4.3. Keeping all of these in mind, we hereby kindly plead to let us store & segregate the chemicals as per UN classification of hazards. All the applicable Indian and its related state laws shall be abiding for us.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

Brief information of the project by SEAC

DECISION OF SEAC

PP requested SEAC to delist the proposal. Hence SEAC decided to delist the proposal as request made by PP.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

148th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 148th **Meeting Date** February 26, 2018

Subject: Environment Clearance for Change in Product Mix of Synthetic Organic Chemicals in existing Manufacturing capacity

1.Name of Project	Change in Product Mix of Synthetic Organic Chemicals in existing Manufacturing capacity at M/S. Anshul Speciality Molecules Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Anshul Specialty Molecules Pvt. Ltd., Plot no. 108,109,110, Roth (Bk.) Tal:Roha, Dist:Raigad
4.Name of Consultant	Dr. Subbarao's Environment Center.
5.Type of project	Industrial Estate
6.New project/expansion in existing project/modernization/diversification in existing project	Change in Product Mix in existing product capacities
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	108,109 ,110 at Village Roth (Bk.), MIDC area, Tal: Roha, Dist:Raigad
9.Taluka	Roha
10.Village	Roth (Bk.)
Correspondence Name:	Mr. Shirish Satpute
Room Number:	108,109,110 at Village:Roth (Bk.)
Floor:	Village:Roth (Bk.)
Building Name:	Anshul Speciality Molecules Pvt. Ltd.
Road/Street Name:	Village:Roth (Bk.), MIDC area
Locality:	Village:Roth (Bk.)
City:	Roha
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 17410
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	41498 sq.m.
16.Deductions	Not applicable
17.Net Plot area	41498
18.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.):
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	40000000

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	Isatoic Anhydride	70	00	70
2	Methyl Anthranilate	50	00	50
3	Ammonia solution	400	00	00
4	5-Chloro Methyl Anthranilate or 5-Bromo Methyl Anthranilate or Parachloro Thiophenol	6	00	6
5	Oxalyl Chloride	25	25	50
6	Bis (Trichloromethyl) Carbonate (BTC)	25	00	25
7	Thiophenols or Anthranilates	6	0	6
8	Framidice/ Menthane Carboxylic Acid/Methyl Chloride/WS3	5	00	5
9	Skatole	0.125	00	0.125
10	Hexachloroacetone	10	60	70
11	Lawesson's Salt	0.5	0	0.5
12	CMIC / Chloroformates	15	15	30
13	Alkylated Oxalyl Chloride (Allyl, Ethyl and Methyl Oxalyl Chloride)	0	10	10

14	CAF	00	5	5
15	Oxylan 333	00	10	10
16	Chloro Methyl Laurate	00	5	5
17	L Alanine Isopropyl Ester HCl	00	5	5
18	Ethyl Propionate	00	5	5
19	Phthalimide and it's salts	00	74	74
20	MDIPA (4, 4-Methylene bis-2, 6-diisopropyl aniline)	00	10	10
21	Anthranilamide	00	5	5
22	Sodium Sulphite (T. B. C.)	1500	00	1500
23	Polymaleic Acid (D-32 & its formulations) or 2-Phosplino-Butane 1,2,4 Tricarboxylic Acid (Codex-551) or Thioeyanato Methyl ThioBenzole [T.C.M.B.T]	60	00	00
24	Tetrakis (Hydroxymethyl) Phosphomium Sulphate / Chloride (THPS/THPC)	30	00	00
25	Benzyl Acetone	10	00	00
26	Hexachloroethane	150	00	00
27	Isocyantes , Carbonyl Chloride, Ureas, Halogenated Resin/ Acid Halogen, Para Fluoro Benzo Trichloride	15	00	15
28	Benzyl Chloride	1.2	0	0
29	Benzaldehyde	2.1	0	0
30	Anthranilates	6	4	10

32.Total Water Requirement

Dry season:	**Source of water**	188.5
	Fresh water (CMD):	188.5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not Applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	234.35
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	45.85 (Recycled for process)
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	21	0	21	0	0	0	21	0	21
Industrial Process	78.15	0	78.15	44.65	0	44.65	33.5	0	33.5
Cooling tower & thermopack	117.2	0	117.2	116.7	0	116.7	0.5	0	0.5
Gardening	18	0	18	18	0	18	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 m
	Size and no of RWH tank(s) and Quantity:	2 tanks of size (12m * 4m * 3m) Quantity: 2000cum.
	Location of the RWH tank(s):	Near Boiler
	Quantity of recharge pits:	NO
	Size of recharge pits :	NO
	Budgetary allocation (Capital cost) :	5,00,000
	Budgetary allocation (O & M cost) :	50,000
	Details of UGT tanks if any :	2 tanks of size (12m * 4m * 3m) Quantity: 2000 cum.
35.Storm water drainage	**Natural water drainage pattern:**	Towards Kundalika River
	Quantity of storm water:	2000 cum.
	Size of SWD:	2 tanks of size (12m * 4m * 3m)
Sewage and Waste water	**Sewage generation in KLD:**	21
	STP technology:	Combined treatment of domestic (sewage) and industrial wastewater
	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:**	Existing industry, no construction activity, it is only product mix.
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Boiler Ash - 165 MT/A, Manure from Biosludge - 18 MT/A
	Wet waste:	Not Applicable
	Hazardous waste:	Distillation residue - 146 MT/A, Chemical Sludge from wastewater treatment - 53 MT/A, Chemical containing residue from decontamination and disposal - 0.2 MT/A, Used/Spent oil - 3 MT/A, Discarded Containers HDPE bag and MS Drums - 9159 Nos./A, Spent solvents - 12 MT/A
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Ash is sold to the brick manufacturers and Biological sludge is sold as manure
	Wet waste:	Not Applicable
	Hazardous waste:	Hazardous waste is transported to MWML, Mumbai
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Near Manufacturing Process
	Area for the storage of waste & other material:	215 sq.m.
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not Applicable	5.5-6	7.2	6.5-8.5
2	Suspended Solids	mg/l	700	14	100
3	BOD	mg/l	1200	56	100
4	COD	mg/l	4000	140	250
5	Oil and Greese	mg/l	10	0.2	10
6	Total Dissolved Solids	mg/l	1950	1564	2100
7	Chlorides	mg/l	250	181.9	600
8	Sulphates	mg/l	320	78	1000
9	Phenolic Compounds	mg/l	5	0.1	5
10	Total Ammonical Nitrogen	mg/l	15	1.5	50
11	% Sodium	%	NA	78	60

Amount of effluent generation (CMD):	55
Capacity of the ETP:	75
Amount of treated effluent recycled :	45.85
Amount of water send to the CETP:	55
Membership of CETP (if require):	Yes
Note on ETP technology to be used	1. Primary- Equalisation, Neutralisation, Primary sedimentation tank 2. Secondary- Biorector, Secondary sedimentation tank, 3. Tertiary- Pressure sand filter, Charcoal tower. 4. Gravity Filtration system /Filter press / centrifuge/drying beds. Proposed additional units- MEE & R.O.
Disposal of the ETP sludge	sent to CHWTSDF (MWML, Mumbai.)

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

1	Distillation Residue	20.3	MT/A	146	0	146	sent to CHWTSDF, MWML, Mumbai.
2	Spent Solvent	20.2	MT/A	12	0	12	sent to CHWTSDF, MWML, Mumbai.
3	Used/Spent Oil	5.1	MT/A	3	0	3	sent to CHWTSDF, MWML, Mumbai.
4	Discarded containers/barrels/liner	33.3	No.s/A	9159	0	9159	sent to CHWTSDF, MWML, Mumbai.
5	Chemical slugde arising from Primary Treatment	34.3	MT/A	53	0	53	sent to CHWTSDF, MWML, Mumbai.

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 (1&2)	F. O.	1	19	0.3	369
2	Boiler	L.D.O. / F. O	1	19	0.3	369
3	Boiler (coal) 1 & 2	Coal	2	26	0.6	439
4	Process Isatoic plant scrubber	NA	4	13	0.3	323
5	Process - PCTP plant scrubber	NA	5	6	0.15	313
6	Process - O.C. plant scrubber	NA	5	6	0.05	NA
7	Process - BTC/ CMIC plant HCL scrubber	NA	5	6	0.05	NA
8	Process - OC/BTC/CMIC plant scrubber	NA	5	6	0.3	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	7.4 MT/D	0	7.4 MT/D
2	LDO	2.6 MT/D	0	2.6 MT/D
3	FO	1.3 MT/D	0	1.3 MT/D
41.Source of Fuel		Open Market		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	3.465 Acres
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	2100 out of which 1023 are existing
	List of proposed native trees :	Mango-Mangifera Indica L. , Coconut-Cocos nuciferra L. , Jambhul-Syzygium cumini, Ashok-Saraca asoca, Suru-Casuarina equisetifolla-Casuarina muricata, Niv-Gazella Dorcas L., Gulmohar-Delonix regia, Palm-Arecaceae, Badam-Prunus dulcis, Subabul-Leucaena Leucocephala, Karanj-Millettia pinnata, Nimb-Azadirachta indica, Bahava-Cassica Fistula L.
	Timeline for completion of plantation :	Within 2 years remaining of 1100 plants will be 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	Mangifera Indica L	Mango	35	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
2	Cocos nuciferra L.	Coconut	55	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
3	Syzygium cumini	Jambhul	70	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
4	Saraca asoca	Ashok	45	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
5	Casuarina equisetifolla (Casuarina muricata)	Suru	5	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
6	Gazella Dorcas L.	Niv	25	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.

7	Delonix regia	Gulmohar	55	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
8	Arecaceae	Palm	30	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
9	Prunus dulcis	Badam	80	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
10	Leucaena Leucocephala	Subabul	340	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
11	Millettia pinnata	Karanj	115	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
12	Azadirachta indica	Nimb	65	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
13	Cassica Fistula L.	Bahava	125	Native species are observed in the project area, no wildlife / special species / migratory birds are seen. The project area is rich in flora and fauna as per the requirement Shannon Weiner index.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	MSEB/DG set
	DG set as Power back-up during construction phase	Yes
	During Operation phase (Connected load):	DG set as a backup
	During Operation phase (Demand load):	DG set
	Transformer:	1000 kVA
	DG set as Power back-up during operation phase:	2 * 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Proposed to implement solar energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	approximately about 30 %	Not Applicable

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process & Domestic Effluents	Chemical precipitation followed by biological treatment	proposes to install MEE & RO treatment for recycling and reuse of treated effluent
Stack emissions	Multicyclone seperator and Scrubbers	Not Applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1.5 crores
	O & M cost:	10 Lacs

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	Water Pollution Control	It is proposed to implement Chemical precipitation, biological treatment followed by tertiary treatment such as MEE & RO	400	267.83
2	Noise Control	Acoustic enclosures, silencer pads, ear plugs etc.	10	1
3	Air Pollution Control	APC equipment-Multicyclones, Scrubbers for process emissions	150	60

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
Glasswares and HDPE drums/bags	Existing	At different storage places	250	2130	NA	open market	in closed trucks

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:	495 sq. m
	Area per car:	3 sq. m
	Area per car:	3 sq. m
	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):	10
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Category-B, Sector- 5(f)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	M/S. Anshul Specialty Molecules Pvt. Ltd. has proposed a change in product mix without increasing any pollution load on Environment such as water requirement, effluent quantity and quality (BOD,COD load), air emissions, energy and fuel requirements.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

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

DECISION OF SEAC

During deliberations PP informed that their plot is situated in the village Roth of MIDC area and not in the Village Dhatav of the MIDC area which is included in the list of Eco Sensitive villages in the Draft Notification issued by MoEF & CC on 27.02.2017.

The issue of applicaility of General Condition was also discussed. The General Conditions as amended on 25.06.2014 reads as below;

"*Any project or activity specified in category 'B' will be appraised at the Central Level as Category 'A', if located in whole or part within 5 km from the boundary of Eco-sensitive areas as notified under sub-section (2) of Section 3 of the Environment (Protection) Act, 1986,*"

The Dhatav(Ct) village included in the Eco-Sensitive village list attached to the draft Notification issued by MoEF&CC on 27.02.2017 is located adjacent to the Village Roth in the same MIDC area. Villages Dhatav(Ct) and Roth are adjacent to each other and therefore Village Roth is within the range of 5 KM from Eco Sensitive Village Dhatav(Ct).

In view of above SEAC is of the opinion that the proposed project category becomes category 'A' as it is located within the 5 KM range from the Eco-Sensitive area of village Dhtav(Ct).

Hence, SEAC is of the opinion that proposed project falls under Category "A" of the EIA Notification, 2006 and forwarded the proposal to SEIAA for decision.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.