

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th Day-2 Meeting Date October 5, 2018

Subject: Environment Clearance for Proposed API Manufacturing unit of M/s Chinchem Laboratories Pvt. Ltd.


Is a Violation Case: No

General Information: Venue: Maharashtra Economic Development Council, Board Room, 3rd Floor, Y. B. Chavan Centre, Gen. Jagannathrao Bhosale Marg, Near Mantralaya, Mumbai- 400 020.

1.Name of Project	M/s Chinchem Laboratories Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Dr. Nikhil Dhoot
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project (Green Field Project)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	G-18, Lote-Parshuram Industrial Area MIDC
9.Taluka	Khed
10.Village	Dhamandevi
11.Area of the project	Lote Parshuram MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: Plan is not yet approved Approved Built-up Area: 6300
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Possession receipt from MIDC
15.Total Plot Area (sq. m.)	20000 sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): Not applicable
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	270000000


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		


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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))	8 meter
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	Isosorbide-5-Mononitrate	0	5.0	5.0
2	Diluted Isosorbide-5-Mononitrate	0	10.0	10.0
3	Diluted Isosorbide Dinitrate	0	15.0	15.0
4	Diluted Nitroglycerin	0	25.0	25.0
5	Isosorbide	0	5.0	5.0
6	Dimethyl Isosorbide	0	5.0	5.0
7	Carbimazole	0	2.5	2.5
8	Methimazole	0	2.5	2.5
9	Acetic Acid (By-product)	0	2.08	2.08


32.Total Water Requirement

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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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	1.8	1.8	0	0.36	0.36	0	1.44	1.44
Industrial Process	0	51	51	0	0	0	0	63.04	63.04
Cooling tower & thermopack	0	241.31	241.31	0	207.64	207.64	0	33.67	33.67
Gardening	0	19.47	19.47	0	19.47	19.47	0	0	0


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Fresh water requirement	0	313.58	313.58	0	227.47	227.47	0	98.15	98.15
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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	Underground Fire Hydrant Tank- 300 KL and Process water storage tank - 100 KL will be constructed

35.Storm water drainage	Natural water drainage pattern:	Storm water drainage will be provided
	Quantity of storm water:	66.6 KL/Hr
	Size of SWD:	--

Sewage and Waste water	Sewage generation in KLD:	1.44
	STP technology:	Sewage generated from domestic activity will be treated in Septic tank and overflow from septic tank will be connected to the Aeration tank of ETP.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	220.5 MT construction waste will get generated during construction phase of the unit
	Disposal of the construction waste debris:	Construction waste will be disposed through local body.
Waste generation in the operation Phase:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA


Mode of Disposal of waste:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	Location(s):	Dedicated area for HW storage will be provided as per plot layout
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	5
	O & M cost:	10

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	3.6	In between 6.5-8.5	In between 6.5-8.5
2	COD	mg/l	90000	<250	<250
3	BOD	mg/l	30000	<100	<100
4	TDS	mg/l	195000	<2100	<2100
5	TSS	mg/l	7000	<100	<100
Amount of effluent generation (CMD):		98.15 CMD			
Capacity of the ETP:		HCOD/HTDS treatment: Pre Primary + Primary Treatment followed by Stripper MEE with ATFD of 77 CMD capacity And MEE condensate + LCOD/LTDS treatment : 95 CMD			
Amount of treated effluent recycled :		67 CMD			
Amount of water send to the CETP:		It will be ZLD project			
Membership of CETP (if require):		NA Provisional membership will be taken			
Note on ETP technology to be used		HCOD/HTDS effluent from process will be treated by giving pre primary + Primary treatment followed by Stripper MEE with ATFD. while the LCOD/ LTDS effluent will be treated in conventional ETP. The condensate from MEE and sewage effluent will be connected to the aeration system of conventional ETP and it will be treated along with LCOD effluent. After tertiary treatment it will get passed through two stage RO system and the reject from RO will be connected to evaporator of MEE			
Disposal of the ETP sludge		ETP sludge will be disposed through CHWTSDF, Taloja			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation Residue	20.3	T/M	0	22.20	22.20	CHWTSDF, Taloja
2	Spent Carbon	28.3	T/M	0	1.99	1.99	CHWTSDF, Taloja
3	Chemical Sludge from Wastewater treatment	35.3	T/M	0	3.0	3.0	CHWTSDF, Taloja
4	Process Residue	28.1	T/M	0	1.95	1.95	CHWTSDF, Taloja
5	MEE Residue	37.3	T/D	0	13	13	CHWTSDF, Taloja


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6	Discarded containers barrels/liners/ plastic bags/ PPE etc	33.1	Nos/M	0	1000	1000	CHWTSDF, Taloja / MPCB authorized recycler
7	Recovered Mix Solvents from Process effluent stream using Stripper MEE	28.2	T/M	0	21	21	CHWTSDF, Taloja
8	Spent Oil	5.1	Lit/M	0	200	200	MPCB 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	0.5 TPH boiler X 2 Nos.	LDO : 0.235 KLD	1	30	0.6	110
2	2.0 TPH boiler	LDO : 2.122 KLD	2	30	0.6	110
3	Thermopack of 250000 Kcal/ hr X 2 Nos	LDO : 0.7 KLD	3	30	0.6	110
4	Scrubber -1	--	4	11	0.4	32
5	Scrubber -2	--	5	11	0.4	32
6	Scrubber -3	--	6	11	0.4	32
7	Scrubber -4	--	7	11	0.4	32
8	Scrubber -5	--	8	11	0.4	32
9	D.G. set 400 KVA	HSD: 89.5 L/Hr	9	4 meter above roof	0.12	50

40.Details of Fuel to be used

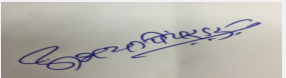
Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	0	3.06 KL/D	3.06 KL/D
2	HSD	0	89.5 L/Hr	89.5 L/Hr

41.Source of Fuel Local Vendor

42.Mode of Transportation of fuel to site By road


43.Green Belt Development	Total RG area :	3894 sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	566
	List of proposed native trees :	Aegle marmelos, Terminalia bellerica, Mangifera indica, Derris indica, Terminalia arjuna, Neolamarckia cadamba, Bombax ceiba, Azadirachta indica, Terminalia paniculata, Terminalia elliptica, Schleicheria oleosa, Plumeria rubra, Ixora coccinea, Heterophragma quadriloculare, Oroxylum indicum, Nerium oleander, Catunaregum spinosa, Butea monosperma, Cassia fistula, Tabernaemontana alternifolia, Bougainvillea spectabiis,
	Timeline for completion of plantation :	1 year after grant of Environmental Clearance

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


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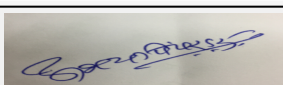
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Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ixora coccinea	Rukmini/Bakavali	20	A native shrub blooming throughout the year usually visited by nectar feeding birds & butterflies.
2	Heterophragma quadriloculare	Waras	25	A native deciduous tree visited by nectar feeding birds. Large leaf area helps in settling of dust.
3	Oroxylum indicum	Tetu	25	A native ornamental tree.
4	Nerium oleander	Kaner	35	A native hardy species, drought resistant with fragrant flowers.
5	Catunaregum spinosa	Gela	30	Mountain Pomegranate is an armed shrub or small native evergreen tree
6	Butea monosperma	Palash	30	A native brilliantly flowering tree fed by local birds fairly common
7	Cassia fistula	Bahava	20	Native ornamental tree having flowers attracting bees and butterflies
8	Tabernaemontana alternifolia	Naag kuda	20	A small evergreen native tree
9	Bougainvillea spectabilis	Booganvel	8	An ornamental tree blooming throughout the year
10	Plumeria rubra	Chafa	20	An evergreen brilliantly flowering shrub
11	Schleichera oleosa	Kusum	33	A native tree found in abundance in Sahyadris.
12	Terminalia elliptica	Ain	30	A native evergreen broad leaved tree common in the Sahyadris.
13	Terminalia paniculata	Kindal	25	Kindal is a tropical tree with a large natural distribution in Western Ghats
14	Azadirachta indica	Neem	85	A native evergreen tree known for plantation in polluted area.
15	Bombax ceiba	Sawar	10	A native tree with large showy flowers visited by birds.
16	Neolamarckia cadamba	Kadamba	10	A native evergreen tree with thick canopy.
17	Terminalia arjuna	Arjun	20	A native evergreen tree with large canopy
18	Derris indica	Karanja	30	A native tree blooming throughout the year
19	Mangifera indica	Amba	40	A native evergreen tree with large canopy & large leaf area which helps in dust settling
20	Terminalia bellerica	Baheda	30	A native medicinally important tree
21	Aegle marmelos	Bael	20	A native evergreen tree

45.Total quantity of plants on ground

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

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



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47. Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	300 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	400 KW
	During Operation phase (Demand load):	400 KW
	Transformer:	625 KVA
	DG set as Power back-up during operation phase:	400 KVA
	Fuel used:	HSD
	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 Emissions	NA	Total 5 Acid/Alkali Scrubbers will be provided with stack height of 11 m height
Boiler and Thermopack	NA	3 number of Stacks of 30 meter height will be provided
D.G. set	NA	Stack of 4 meter height above roof will be provided

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	Air Environment	Dust suppression	2
2	Water Environment	Arrangement of sanitary facility like mobile toilets etc	5


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3	Solid Hazardous waste	Handling, transportation and disposal of Construction waste through local body	5
4	Noise Environment	PUC certified vehicles etc, PPE	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Construction of 3 stacks and installation of 5 nos of process scrubbers with stack height of 11m height	117.7	15.2
2	Water Environment	Purchase of Stripper MEE with ATFD, construction of ETP and installation of RO system	360	21.8
3	Noise Environment	Noise Pollution Control, Installation of anti-vibration pads, & Enclosures.	2	0.5
4	Environment Monitoring & Management	Monitoring	0	3.5
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers, Occupational Health (training, OHC center)	5	2
6	Green Belt	Development and maintenance of green belt	10.3	2.16
7	Solid waste Management	Solid Waste Management	5	10


51.Storage of chemicals (inflammable/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
40% Methyl methacrylate	Liquid	Drum	19.5	19.5	58.4	Local	By Road
70% HNO3	Liquid	Tank	5	5	13.96	Local	By Road
70% Sorbitol	Liquid	Tank	25	25	72.5	Local	By Road
98% HNO3	Liquid	Tank	3.5	3.5	9.74	Local	By Road
Acetic Anhydride	Liquid	Drum	10.5	10.5	30.94	Local	By Raod


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Acetone	Liquid	Carboy	15.5	15.5	46.08	Local	By Road
Ammonium Thiocyanate	Solid	Bags	2.5	2.5	6.4	Local	By Road
Bromine	Liquid	Bottles	11.3	11.3	67.7	Local	By Road
Charcoal	Solid	Bags	0.98	0.98	0.98	Local	By Road
Dimethyl Sulphate	Liquid	Drum	5	5	15	Local	By Road
Ethyl chloroformate	Liquid	Drum	1	1	2.9	Local	By Road
Glycerin	Liquid	Carboy	0.4	0.4	1.13	Local	By Road
Isosorbide-2-Acet	Liquid	Drum	6	6	16.77	Local	By Road
KOH	Solid	Bags	15	15	45	Local	By Road
Lactose	Solid	Bags	14.5	14.5	43.75	Local	By Road
Methanol	Liquid	Tank	20	20	132.7	Local	By Road
Methylene Chloride	Liquid	Drum	2.5	2.5	7.35	Local	By Road
p-Toulene Sulphonic Acid	Solid	Bags	0.58	0.58	0.58	Local	By Road
Pyridine	Liquid	Drum	0.5	0.5	2.15	Local	By Road
Soda Ash	Solid	Bags	4	4	11.6	Local	By Road
Sodium acetate anhydrous	Solid	Bags	0.5	0.5	1.4	Local	By Road
Sodium Hydroxide	Solid	Bags	2	2	6.3	Local	By Road
Sodium Methoxide	Solid	Bags	0.46	0.46	0.46	Local	By Road
Sulphuric Acid	Liquid	Tank	10	10	28.2	Local	By Road
Toluene	Liquid	Tank	20	20	160	Local	By Road
Vinyl Acetate Monomer	Liquid	Drum	12	12	36	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	Number and area of basement:	--
	Number and area of podia:	--
	Total Parking area:	2400
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	--


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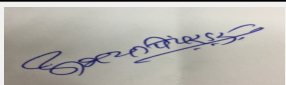

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	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) Cat : B1
	Court cases pending if any	NA
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

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

ToR was granted in the 138th meeting of SEAC held on 01.06.2017 as per standard ToR and additional ToR points as mentioned below,

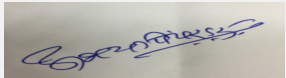
1. PP to submit their plan to achieve 33% of green belt as per National Forest Policy.
2. PP to submit copies of On Site and Off Site Emergency Preparedness Plan duly accepted by competent authority.
3. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
4. PP to include detailed water balance chart in EIA report along with quantities of waste water generation and its disposal.
5. PP to submit an affidavit for achieving Zero Liquid Discharge and not discharging any additional load on CETP or in any other source outside the limits of factory premises.
6. Committee observed that most of the raw material goes into the effluent stream which results in the wastage of resource and use of additional energy to treat it; PP advised to look into the process of all the products and try to use maximum raw materials to convert into the product so that energy and resources can be saved; PP to include their report in the EIA.

Now PP submitted EIA/EMP report.

The proposal was considered in the 153rd meeting of SEAC where in the proposal was deferred till the compliance of following points.


1. PP to submit point wise compliance of additional ToR points.
2. It was observed that approximate 10% of mononitrate used as a raw material goes in to the effluent; PP to submit mechanism to prevent it to mix with effluent so as to achieve optimum product and less load on the ETP.
3. PP to include Piping and Instrumentation diagrams in the HAZOP report.
4. PP to submit copy of CHWTSDF membership.
5. PP to submit product wise solvent consumption, product wise solvent recovery and quantity of excess solvent along with its disposal method.
6. PP to prepare CER plan in consultation with the District Authority.

Now PP submitted the compliance of above points.


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DECISION OF SEAC

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


Specific Conditions by SEAC:

- 1) Committee observed that most of the raw material goes into the effluent stream which results in the wastage of resource and use of additional energy to treat it; PP advised to look into the process of all the products and try to use maximum raw materials to convert into the product so that energy and resources can be saved; PP to include their report in the EIA.
- 2) PP to prepare CER plan in consultation with the District Authority.

FINAL RECOMMENDATION


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

SEAC-AGENDA-00000000142


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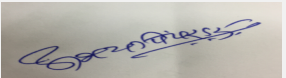
SEAC Meeting number: 156th Day-2 Meeting Date October 5, 2018

Subject: Environment Clearance for Environmental Clearance for proposed Production Capacity enhancement of Unilex Colours And Chemicals Ltd.

Is a Violation Case: No


1.Name of Project	Unilex Colours And Chemicals Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Narendra K.P.
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
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	No
8.Location of the project	Plot No. E-10/2
9.Taluka	Palghar
10.Village	Salwad
Correspondence Name:	Mr. Narendra K. P.
Room Number:	106/107
Floor:	1st
Building Name:	Advent Atria
Road/Street Name:	Chincholi Bunder Road
Locality:	Malad (W)
City:	Mumbai
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 949.91
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.)	1275.00 sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 949.91
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	20000000.00

22.Number of buildings & its configuration



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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))	10 meter			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal roads of 5 m width are provided			
29.Existing structure (s) if any	Yes			
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	Beta Blue	24.80	100.00	124.80
2	Pigment Yellow - 12, 13, 14, 74, 83, 168, 191/Pigment Red - 3, 4, 8, 112, 48.2, 48.3, 12, 53.1, 57.1, 146,170/Pigment Orange - 05, 13, 34/Lemon Chrome/Middle Chrome/Pigment Green-7/Pigment Blue/Violet-27	00	40.0	40.0
32.Total Water Requirement				


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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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1.0	1.5	2.5	0.2	0.3	0.5	0.8	1.2	2.0
Industrial Process	13.0	58.87	71.87	0.3	50.7	51.0	12.7	8.17	20.87
Cooling tower & thermopack	6.0	12.0	18.0	5.0	10.3	15.3	1.0	1.7	2.7
Gardening	0.5	0.5	1.0	0.5	0.5	1.0	0	0	0


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	NA	
	Size and no of RWH tank(s) and Quantity:	NA	
	Location of the RWH tank(s):	NA	
	Quantity of recharge pits:	NA	
	Size of recharge pits :	NA	
	Budgetary allocation (Capital cost) :	NA	
	Budgetary allocation (O & M cost) :	NA	
	Details of UGT tanks if any :	Fire fighting water tank of 50.0 KL capacity	
35.Storm water drainage	Natural water drainage pattern:	Storm water drains of adequate capacity will be provided	
	Quantity of storm water:	0.98 m3/hr.	
	Size of SWD:	The SWD will be designed as per the quantity of storm water to be received during the rainy season	
Sewage and Waste water	Sewage generation in KLD:	2.0	
	STP technology:	Sewage waste water will be treated in aeration tank of the effluent treatment plant	
	Capacity of STP (CMD):	NA	
	Location & area of the STP:	NA	
	Budgetary allocation (Capital cost):	NA	
	Budgetary allocation (O & M cost):	NA	
36.Solid waste Management			
Waste generation in the Pre Construction and Construction phase:	Waste generation:	No construction activities are involved hence such waste generation is not envisaged	
	Disposal of the construction waste debris:	No construction activities are involved hence generation and disposal of such wastes is not envisaged	
Waste generation in the operation Phase:	Dry waste:	Office waste such as papers and other domestic waste	
	Wet waste:	NA	
	Hazardous waste:	ETP sludge: 14.0 MT/A, Mechanical Evaporator Residue: 133.7 kg/day, Empty bags: 2.5 kg/M, Empty drums: 25 no./M, Empty Carboys: 35 no./M	
	Biomedical waste (If applicable):	NA	
	STP Sludge (Dry sludge):	NA	
	Others if any:	NA	
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Mode of Disposal of waste:	Dry waste:	Through local municipal waste disposal system
	Wet waste:	NA
	Hazardous waste:	ETP Sludge & Mechanical Evaporator Residue to Mumbai Waste Management Ltd. - CHWTSDF at Taloja and Empty bags, Empty drums, Empty carboys will be sold to authorized recycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	Location(s):	Dedicated hazardous waste storage area will be provided as per the project plot layout plan
	Area for the storage of waste & other material:	5.0 sq.m.
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	1,50,000.00
	O & M cost:	30,000.00

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	6.75	7.05	6-8.5
2	TDS	mg/l	1987.00	1901.00	<2100
3	BOD	mg/l	194.00	39.00	<100
4	COD	mg/l	600.00	136.00	<250
5	O&G	mg/l	4.0	BDL	<10
Amount of effluent generation (CMD):		23.57			
Capacity of the ETP:		20.0 CMD			
Amount of treated effluent recycled :		13.37 CMD			
Amount of water send to the CETP:		10.2 CMD			
Membership of CETP (if require):		Company is having membership of TIMA CETP Co-Op. Society Ltd.			
Note on ETP technology to be used		Existing: The domestic waste water is subjected to soak pit & the effluent from boiler, cooling tower blow down & process effluent is treated in ETP of 20 CMD capacity comprising of primary treatment scheme & treated effluent is further sent to CETP. Proposed: The domestic waste water will be subjected to soak pit & the effluent from boiler & cooling tower blow down will be treated in ETP of 20 CMD capacity comprising of primary treatment scheme & treated effluent will be sent to CETP and the			
Disposal of the ETP sludge		Mumbai Waste Management Ltd. - CHWTSDF at Taloja			


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	35.3	kg/annum	2.8	11.2	14.0	Mumbai Waste Management Ltd. - CHWTSDF at Taloja
2	Mechanical Evaporator Residue	37.3	kg/day	--	133.7	133.7	Mumbai Waste Management Ltd. - CHWTSDF at Taloja


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3	Empty bags	33.1	kg/month	0.5	2.0	2.5	Sale to authorized recycler
4	Empty drums	33.1	number/month	5.0	20.0	25.0	Sale to authorized recycler
5	Empty carboys	33.1	number/month	7.0	28.0	35.0	Sale 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	4 lakh kilo calorie/hour Thermic fluid heater	Coal - 1792.00 kg/day	1	20.0	0.5	230.0
2	850 kg/hour steam boiler	Coal - 1716.9 kg/day	2	20.0	0.5	230.0
3	HCl. scrubber	--	3	4.0 (Above roof level)	0.3	--


40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Indonesian coal	1505.7 kg/day	2003.2	3508.9 kg/day
41.Source of Fuel		Local vendor - Gurukrupa Enterprises, Surat		
42.Mode of Transportation of fuel to site		Road		

43.Green Belt Development	Total RG area :	3037 sq.m. (Adjacent to the project plot)
	No of trees to be cut :	NA
	Number of trees to be planted :	62
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleicheria oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Callicarpa tomentosa, Neolamarckia cadamba, Pterospermum acerifolium
	Timeline for completion of plantation :	1 year after grant of environmental clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	33	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	29	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	23	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index


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4	Macaranga peltata	Chandwar	23	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kusum	23	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	23	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	23	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	23	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	23	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	23	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	23	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainsadada	23	A native deciduous tree of forest tracts of Sahyadri ranges
13	Butea monosperma	Palash	23	A native brilliantly flowering tree abundant the Palghar District visited by large number of birds
14	Oroxylum indicum	Tetu	23	A native ornamental tree
15	Erythrina suberosa	Pangara	23	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
16	Azadirachta indica	Kadulimb	23	A native evergreen tree capable of surviving in comparatively polluted environs
17	Dalbergia sissoo	Shisham	23	A native evergreen tree attracting large number of insects
18	Trema orientalis	Ghol	23	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index
19	Callicarpa tomentosa	Aiser	23	A native evergreen medium sized tree of forest tracts of Sahyadri ranges with hairy thick leaves having comparatively higher dust settling index
20	Neolamarckia cadamba	Kadamba	23	A native evergreen tree with tremendous blooms attracting large number of insects
21	Pterospermum acerifolium	Karnikar	23	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation

45.Total quantity of plants on ground

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



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

47. Energy

Power requirement:	Source of power supply :	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	456 KW
	During Operation phase (Demand load):	405 kVA
	Transformer:	500 kVA
	DG set as Power back-up during operation phase:	--
	Fuel used:	NA
	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
0.6 TPH Steam boiler	Stack of 20.0 m & Multi cyclone separator followed by scrubber	--
2 lakh kilo calorie/hour Thermic fluid heater	Stack of 20.0 m & Multi cyclone separator	--
4 lakh kilo calorie/hour Thermic fluid heater	--	Stack of 20.0 m height & Multi cyclone separator followed by Bag filter
850 kg/hour steam boiler	--	Stack of 20.0 m height & Multi cyclone separator followed by Bag filter
Process emissions	--	1 no. Hcl. Scrubber with a stack of 4.0 m above roof level



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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	Installation of stacks of 20.0 m height & Multi cyclone separator followed by Bag filter for 4 lakh kilo calorie/hour Thermic fluid heater & 850 kg/hour steam boiler and 1 no. HCl. scrubber	20.00	1.0
2	Water	Installation of Mechanical Evaporator of 15.0 KL	15.00	0.50
3	Noise	Development of acoustic enclosures & installation of shock absorbers & vibration absorbing pads	5.0	0.10
4	Occupational health	Purchase of PPE's and health check ups	4.5	0.50
5	Green belt	Development of green belt	7.09	1.44
6	Solid waste	Development of hazardous waste storage area & purchase of solid waste storage bags, containers	1.5	0.30


51.Storage of chemicals (inflammable/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
CPC	Solid	Shed	25.0	25.0	125.00	Local	Road
Caustic Soda	Solid	Shed	3.0	3.0	4.0	Local	Road
Gum rosin	Solid	Shed	4.0	4.0	4.5	Local	Road
Xylene	Liquid	Shed	200.00 l	200.00 l	200.00 l	Local	Road
Isobutyl alcohol	Liquid	Shed	400.00 l	400.00 l	400.00 l	Local	Road


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Additive -Pthalamide	Solid	Shed	1.0	1.0	1.5	Local	Road
Hydrochloric acid	Liquid	Shed	1000.00 l	1000.00 l	1000.00 l	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	153 sq.m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	5.0
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	No


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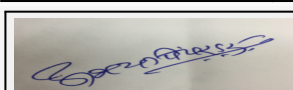
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	Other Relevant Informations	<p>1. The existing steam boiler of 0.6 TPH & thermic fluid heater of 2 lakh kilo calorie/hour will be sale out after expansion.</p> <p>2. ETP treatment scheme: Existing: The domestic waste water is subjected to soak pit & the effluent from boiler, cooling tower blow down & process effluent is treated in ETP of 20 CMD capacity comprising of primary treatment scheme & treated effluent is further sent to CETP. Proposed: The domestic waste water will be subjected to soak pit & the effluent from boiler & cooling tower blow down will be treated in ETP of 20 CMD capacity comprising of primary treatment scheme & treated effluent will be sent to CETP and the effluent from manufacturing process will be totally recycled through Mechanical Evaporator. The industry will continue to dispose effluent (boiler& cooling tower blow down) to CETP as per the valid CTO. The effluent form manufacturing process will be totally recycled so that there is no additional load subjected to CETP disposal from the proposed expansion project.</p> <p>3. Green Belt related: The 33% of project plot area is 420.75 sq. m. however green belt will be provided in area of 3037.00 sq. m. adjacent to the project plot.</p>
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS


Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge for effluent treatment.
Drainage pattern of the project	PP provided the storm water drains considering the contour on site.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site.
Solid Waste Management	Hazardous wastes will be disposed off at CHWTSDF site and sale to authorized vendors.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 405 kVA which will be supplied by MSEDCL. PP to provide DG set back up to all pollution control equipment's and emergency facilities.
Traffic circulation system and risk assessment	PP proposes to provide an area of 153 Sq.m. for parking of the vehicles along with six meter wide internal roads with nine meter turning radius.
Landscape Plan	PP proposes to provide 33% green belt on site.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment study and prepared on site emergency plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs. 54.09 Lakhs as a capital cost and Rs. 3.87 Lakhs as O & M cost to maintain environmental parameters.



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Any other issues related to environmental sustainability	Not Applicable
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Brief information of the project by SEAC

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

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

ToR was granted in the 146th meeting of SEAC-1 held on 30.01.2018.

PP submitted EIA/EMP reprot.

The proposal was considered in the 154th meeting of SEAC where in the proposal was deferred till the compliance of following points.

1. PP to submit design of Zero Liquid Discharge Effluent Treatment Plant.
2. PP to submit a technical report on how the proposed expansion with respect to the production quantity will be accommodated in the existing facility along with structural stability certificate of existing buildings/structures on the site.
3. PP to submit clarification on the better energy efficiency of the proposed equipment's in the expansion.

Now PP submitted the compliance of above points.

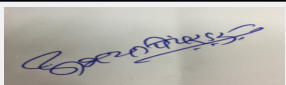
DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant SEAC decided to recommend the proposal to SEIAA for prior environment clearance subject to following conditions.

Specific Conditions by SEAC:

- 1) PP to explore possibility to replace ball milling operation with alternate operation so as to reduce energy consumption.
- 2) PP to prepare and implement CER plan in consultation with the District Authorities.

FINAL RECOMMENDATION




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

SEAC-AGENDA-00000000142


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156th Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 156th Day-2 Meeting Date October 5, 2018

Subject: Environment Clearance for New unit of Synthetic Organic Chemical intermediates manufacturing unit of M/s Altra Pure Chem

Is a Violation Case: No


1.Name of Project	Altra Pure Chem
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Mithun Patil
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Industrial
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	NA
8.Location of the project	N-67, Additional Anand Nagar MIDC
9.Taluka	Ambernath
10.Village	Ambernath
Correspondence Name:	Mithun Patil
Room Number:	S. No. 234, H. No. 04,
Floor:	Plot No. 45,
Building Name:	Jindal Compound,
Road/Street Name:	Additional MIDC Zone,
Locality:	Bhopar Village, Manpada,
City:	Dombivali (E)
11.Area of the project	Maharashtra Industrial Corporation Development
12.IOD/IOA/Concession/Plan Approval Number	Comes under Judiciary of MIDC, awaiting for approval IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 7150
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.)	6,500 m ²
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 7150
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 01-01-1900
19.Total ground coverage (m ²)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	--
21.Estimated cost of the project	250000000

22.Number of buildings & its configuration



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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))	Ambernath Fire Station (6m)			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Radius - 9m Road Width - 6m			
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	Bi Phenyl Alcohol	--	100	100
2	6 Methyl Nicotinate	--	10	10
3	By-Products	--	--	--
4	Bromine	--	37.0	37.0
5	Nitric Acid (28%)	--	36.8	36.8
32.Total Water Requirement				


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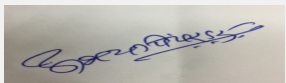
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Dry season:	Source of water	MIDC
	Fresh water (CMD):	209.43
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	204.93
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	Source of water	MIDC
	Fresh water (CMD):	193.93
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	193.93
	Fire fighting - Underground water tank(CMD):	200
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	--	2.50	2.50	--	0.50	0.50	--	2.00	2.00
Industrial Process	--	48.10	48.10	--	--	--	--	60.70	60.70
Domestic	--	143.33	143.33	--	94.43	94.43	--	24.90	24.90
Domestic	--	11.00	11.00	--	11.00	11.00	--	0.00	0.00



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	8m bgl
	Size and no of RWH tank(s) and Quantity:	Rooftop water will be diverted and used as cooling tower makeup
	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 :	Domestic UG tank Capacity: 50m3/day Firefighting: 200m3/day
35.Storm water drainage	Natural water drainage pattern:	South East to North West
	Quantity of storm water:	7.02 m3/hr
	Size of SWD:	A trench of 2ft x 2ft
Sewage and Waste water	Sewage generation in KLD:	2.50 m3/day
	STP technology:	Septic Tank followed by ETP aeration tank
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Negligible
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	MEE Salt - 71.7 T/M; ETP Sludge - 10 T/M; Empty Drums, Carboys, Containers - 10 No/M
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Authorized party
	Wet waste:	NA
	Hazardous waste:	Sale to authorized party approved by MPCB or CHWTSDF or sold as raw material
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Domestic waste sludge from septic tank will be removed and used as manure at regular interval
	Others if any:	NA
Area requirement:	Location(s):	East of plot
	Area for the storage of waste & other material:	10 m ²
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

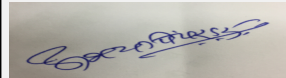

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	3.5-6.5	6.5-8.5	5.5-9.5
2	TDS	mg/l	70,000-75,000	1,500-2,000	< 2,100
3	BOD	mg/l	5,000-5,500	10-30	< 100
4	COD	mg/l	15,000-25,000	50-100	< 250
Amount of effluent generation (CMD):		87.6 m ³ /day			
Capacity of the ETP:		105 m ³ /day			
Amount of treated effluent recycled :		75.66 m ³ /day			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Industrial waste water streams will be segregated as HCOD-HTDS and LCOD-HTDS. Industrial waste water (HCOD-HTDS) generated will be treated primarily in stripper, MEE and ATFD. Septic tank will be provided for sewage treatment. Other waste water (LCOD-HTDS) along with MEE condensate will be subjected to ETP followed by RO. Permeate will be recycled to achieve Zero Liquid Discharge.			
Disposal of the ETP sludge		CHWTSDF, Talaja			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	MEE Salt	37.3	tons/month	--	71.7	71.7	CHWTSDF/sold as raw material
2	ETP Sludge	35.3	tons/month	--	10	10	CHWTSDF
3	Empty Drums, Carboys, Containers	-	nos/month	--	10	10	Recycle through MPCB Authorized Vendor

39. Stacks emission Details

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Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Process	NA	1	11	0.650	115
2	Boiler & Thermic Heater	PNG/FO	1	30	0.450	260
3	DG	HSD	1	4.5	0.300	130


40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total	
1	PNG or FO	--	350Nm3 or 308 Kg/hr	350Nm3 or 308 Kg/hr	
2	HSD	--	80 l/hr	80 l/hr	
41.Source of Fuel		Local Purchase			
42.Mode of Transportation of fuel to site		By Road			

43.Green Belt Development	Total RG area :	2,161 m2
	No of trees to be cut :	00
	Number of trees to be planted :	120
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleichera oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia
	Timeline for completion of plantation :	Project Completion


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	10	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	10	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	10	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Macaranga peltata	Chandwar	10	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kusum	10	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	10	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	10	A native evergreen tree of forest tracts of Sahyadri ranges


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8	Terminalia paniculata	Kindal	10	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	10	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	10	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	10	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainsadada	10	A native deciduous tree of forest tracts of Sahyadri ranges

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)	100 kVA
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	750 kW (Total plant)
	During Operation phase (Demand load):	500 kVA (Total plant)
	Transformer:	NA
	DG set as Power back-up during operation phase:	500 kVA x 01 no
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:


Not applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Effluent Treatment Plant	--	Conventional ETP along with stripper, MEE+ATFD followed by RO; Sewage passed through Septic Tank and taken to secondary of ETP
DG set	--	Stack (500 kVA x 01) ht - 4.5 m above ground
Boiler (PNG / FO Fired)& Thermopack	--	Common Stack - 3000Kg/hr Steam Boiler Stack & One Thermic fluid heater 10 lac Kcal/hr(ht - 30m)
Process Scrubber	--	Alkali scrubber (ht - 11m)

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	Air Pollution	Dust suppression, PUC testing	1.0
2	Water Pollution	Mobile toilets	0.5
3	Noise Pollution	DG set with acoustic enclosure	1.5
4	Occupational Health	PPE, health checkups, camps, first aid kit	0.5

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	Scrubber, Boiler stack, DG stack	50.0	0.5
2	Water	ETP, MEE-ATFD + Stripper, RO	605.0	6.05
3	Noise	DG with acoustic enclosure, enclosure for process air blower	3.0	0.3
4	Occupational Health	PPE, health checkups, camps, first aid kit	1.0	1.5
5	Green Belt	Plantation	6.0	0.8
6	Solid waste	Solid waste (hazardous & non-hazardous) handling, & disposal	50.0	0.5
7	Disaster Management Plan	Fire-fighting arrangements, hydrant lone and points, smoke detectors, firefighting tank	20.0	2.0

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

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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
2, 6 Dichloro Toluene	Liquid	Drums	20 kl	20 kl	125 kl	Local Purchase	By Road
Bromobenzene	Liquid	Drums	15 kl	15 kl	120 kl	Local Purchase	By Road
Magnesium Tablets	Solid	Bags	05	05	34	Local Purchase	By Road
Tetrahydrofuran	Liquid	Drums	20 kl	20 kl	356 kl	Local Purchase	By Road
Toluene	Liquid	Drums	20 kl	20 kl	362 kl	Local Purchase	By Road
Di Methyl Formamide	Liquid	Drums	10 kl	20 kl	47 kl	Local Purchase	By Road
Potassium Borohydride	Solid	Bags	05	05	08	Local Purchase	By Road
Catalyst	Liquid	Drums	02 kl	20 kl	01 kl	Local Purchase	By Road
Hydrochloric acid	Liquid	Tank	20 kl	20 kl	166 kl	Local Purchase	By Road
2-Methyl 5-Ethyl Pyridine	Liquid	Drums	10 kl	10 kl	11.8 kl	Local Purchase	By Road
Sulphuric acid	Liquid	Tank	20 kl	20 kl	25 kl	Local Purchase	By Road
Nitric acid	Liquid	Tank	20 kl	20 kl	54 kl	Local Purchase	By Road
Methanol	Liquid	Drums	25 kl	20 kl	8.9 kl	Local Purchase	By Road
Trichloroethylene	Liquid	Drums	10 kl	20 kl	64.8 kl	Local Purchase	By Road
Soda ash	Solid	Bags	10	20 kl	23.6	Local Purchase	By Road
Catalyst	Solid	Bags	1	1	1	Local Purchase	By Road

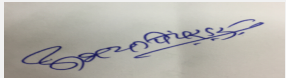
52.Any Other Information

No Information Available

53.Traffic Management


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

Project will confluent on 25m wide road


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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	715
	Area per car:	2.5m x 2.0m
	Area per car:	2.5m x 2.0m
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	Auto, Truck plaza available within MIDC area
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) B1
	Court cases pending if any	NA
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	31-08-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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



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

Brief information of the project by SEAC

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

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

DECISION OF SEAC

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

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

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

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

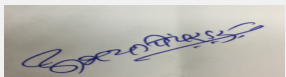
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
- 3) PP to carry out HAZOP and QRA and submit Disaster Management Plan considering the Grignard Reaction Hazards and chemical hazards associated in the reactions.
- 4) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 5) PP to include details of fugitive emission control measures proposed along with their drawings and design calculations in the EIA report.
- 6) PP to submit hazardous chemical handling protocol
- 7) PP to use new and renewable energy for the illumination of office building and street lights.
- 8) PP to conduct socio economic study and submit implementation plan along with time schedule.


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.


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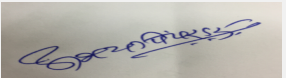
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Subject: Environment Clearance for Environmental Clearance for proposed expansion project of M/s Siddhivinayak Chemicals for production capacity enhancement.

Is a Violation Case: No


1.Name of Project	M/s Siddhivinayak Chemicals.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Utsav Jhonsa
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion, Schedule 5 (f), Category - B1 under EIA Notification 2006.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No.
8.Location of the project	Plot no - A-33, MIDC Kurkumbh, Tal- Daund, Dist- Pune, Maharashtra. 413802
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. Utsav Jhonsa
Room Number:	E/210
Floor:	2nd Floor
Building Name:	Kailas Industrial Complex.
Road/Street Name:	Veer Savarkar Marg
Locality:	Park site
City:	Vikhroli (W), Mumbai
11.Area of the project	MIDC - Kurkumbh
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	2065 sq. m.
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA b) Non FSI area (sq. m.): NA c) Total BUA area (sq. m.): 1069
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA Approved Non FSI area (sq. m.): NA Date of Approval: 26-09-2017
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	50000000

22.Number of buildings & its configuration


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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA
23.Number of tenants and shops	NA		
24.Number of expected residents / users	NA		
25.Tenant density per hectare	NA		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	The nearest fire station is the Fire station in MIDC Kurkumbh. The road to the project side is 6 meters wide.		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius of 9 meters is provided within the plot premises.		
29.Existing structure (s) if any	Manufacturing plant , associated utilities, raw material storage area and admin building are present on project plot		
30.Details of the demolition with disposal (If applicable)	The existing shed of MS, covering area of 106.68 sq.m will be demolished. The scrap material after demolition will be sold to the scrap vendor.		

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Tenoxicam Intermediate	80	Production will be Stopped	Production will be Stopped
2	Linezolid Intermediate	260	Production will be Stopped	Production will be Stopped
3	Linezolid	-	300	300
4	Desloratadine	-	100	100
5	3, 4 Dihydroxy Benzaldehyde	-	500	500
6	Febuxostat	-	300	300
7	Flavoxate HCL	-	200	200
8	Fluvoxamine Maleate	-	100	100
9	Montelukast	-	200	200
10	Pregabalin	-	500	500
11	Rosuvastatin Calcium	-	200	200
12	Rupatadine Fumarate	-	100	100
13	Tapentadol Hydrochloride	-	100	100
14	Tolfanamic Acid	-	1000	1000
15	Lornoxicam	-	250	250


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16	Zolpidic Acid	-	500	500
17	Total	340 (Production will be Stopped)	4350	4350

32.Total Water Requirement

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

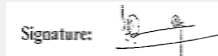
33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0.855	0.27	1.125	0.0855	0.027	0.1125	0.7695	0.243	1.0125
Industrial Process	1	5.75	6.75	0	0	0	1	6.67	7.67


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Cooling tower & thermopack	10	27.11	37.11	7.722	15.9072	23.63	0.3091	5.01	5.3192
Gardening	1.14	0.86	2	1.14	0.86	2	0	0	0
Fresh water requirement	12.995	33.99	46.985	8.3983	16.7942	25.7425	2.0786	11.923	14.00

34. Rain Water Harvesting (RWH)	Level of the Ground water table:	Average premonsoon water level of Daund is 7.48 mbgl
	Size and no of RWH tank(s) and Quantity:	The rain water collected from roof top will be connected to the RWH tank of capacity 10 CMD.
	Location of the RWH tank(s):	Next to UG Tank.
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	1,00,000
	Budgetary allocation (O & M cost) :	5,000
	Details of UGT tanks if any :	Fire Fighting tank of 40 CMD capacity & U. G. Tank of 30 CMD capacity are provided.

35. Storm water drainage	Natural water drainage pattern:	Storm water drains of adequate capacity will be provided along the east & west boundaries of the plot.
	Quantity of storm water:	Maximum 63 m ³ /hr of storm water will be generated.
	Size of SWD:	The SWD having dimension of 0.5 m width X 1m height X 59m and 0.5 m width X 1m height X 35 m along the east & west and north boundaries of the plot respectively .


Sewage and Waste water	Sewage generation in KLD:	1.0125
	STP technology:	Sewage waste water will be collected in septic tank and further treated in the aeration tank of the effluent treatment plant.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36. Solid waste Management


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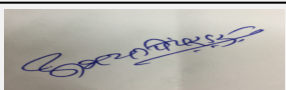
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Waste generation in the Pre Construction and Construction phase:	Waste generation:	Shed made up of M.S. will be demolished. The Scrap MS material will be sold out to the scrap vendor.
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	Packing boards = 10 Kg/m
	Wet waste:	NA
	Hazardous waste:	Residue & Waste = 1.25 T/M, ETP Sludge = 600 Kg/m, Spent Carbon = 604.6 Kg/m, Distillation Residue = 1961.7 Kg/m, Discarded containers barrels/liners/ plastic bags/ PPE etc = 1000 nos/m, Spent solvent = 24.5 TPM
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	Through local Municipal waste disposal system.
	Wet waste:	NA
	Hazardous waste:	All the Hazardous waste generated within the company premises will be disposed to CHWTSDF, Ranjangaon.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	Location(s):	Dedicated Hazardous Waste storage area of 10 sq. m. will be provided as depicted in the project plot layout plan.
	Area for the storage of waste & other material:	Dedicated Hazardous Waste storage area of 10 sq. m. will be provided as depicted in the project plot layout plan
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA


37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	5.8	7.2	5.5-8.5
2	TDS	mg/l	5128	3320	<4000
3	BOD	mg/l	4500	190	<3000
4	COD	mg/l	12000	780	<6000
5	O & G	mg/l	6.6	BDL	<10
Amount of effluent generation (CMD):		14.00 CMD			
Capacity of the ETP:		15 CMD			
Amount of treated effluent recycled :		Nil. Effluent after treatment in ETP will be further sent to CETP.			
Amount of water send to the CETP:		14.00 CMD			
Membership of CETP (if require):		Company is having membership of CETP, Kurkumbh. (Kurkumbh Environment Protection co-operative Society Maryadit.			


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Note on ETP technology to be used	All the effluent generated within the company premises will be treated in the ETP of capacity 15 CMD comprising of Primary, Secondary & tertiary treatment. Domestic waste water will be subjected to aeration tank (Secondary treatment) of ETP. The effluent after treatment will be further sent to CETP, Kurkumbh.
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Disposal of the ETP sludge	ETP sludge will be disposed off to CHWTSDF, Ranjangaon.
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38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residue & waste	28.1	Kg/M	1.25	-	1.25	CHWTSDF /Co-processing
2	ETP Sludge	35.3	kg/M	50	550	600	CHWTSDF /Co-processing
3	Spent Carbon	28.3	Kg/M	-	604.6	604.6	CHWTSDF /Co-processing
4	Distillation Residue	20.3	Kg/M	-	1961.7	1961.7	CHWTSDF /Co-processing
5	Discarded containers barrels/liners/ plastic bags/ PPE etc	33.1	Nos./M	-	1000	1000	To the authorized recycler
6	Spent solvent	28.6	MT/M	-	24.5	24.5	To the authorized recycler

39.Stacks emission Details

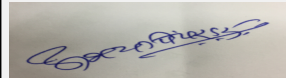
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	850 kg/hour steam boiler	LDO 0.904 Kl/day	1	20	0.4	124
2	2 lakh kcal Thermic Fluid Heater	LDO 0.624 Kl/day	1	20	0.4	124
3	100 kVA Diesel Generator	High Speed Diesel - 10 l/day	2	3.0 (above roof level)	0.1	156
4	Scrubber	-	3	15m (above roof level)	0.2	30

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	0.20 KLD	1.328 KLD	1.528 KLD
2	High speed diesel	10 l/day	0	10 l/day


41.Source of Fuel	LDO : Local Supplier, High speed diesel: Local HP vendor
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42.Mode of Transportation of fuel to site	By Road
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43.Green Belt Development	Total RG area :	681.45 sq. m.
	No of trees to be cut :	NA
	Number of trees to be planted :	103
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleicheria oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Pongamia pinnata, Neolamarckia cadamba, Pterospermum acerifolium, Dalbergia sissoo, Pongamia pinnata
	Timeline for completion of plantation :	2 years after grant of environmental clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	05	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	05	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	05	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Macaranga peltata	Chandwar	05	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleicheria oleosa	Kusum	05	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	05	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	05	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	05	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	05	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	05	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	05	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainsadada	05	A native deciduous tree of forest tracts of Sahyadri ranges
13	Butea monosperma	Palash	05	A native brilliantly flowering tree abundant the Palghar District visited by large number of birds
14	Oroxylum indicum	Tetu	05	A native ornamental tree


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15	Erythrina suberosa	Pangara	05	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
16	Azadirachta indica	Kadulimb	05	A native evergreen tree capable of surviving in comparatively polluted environs
17	Dalbergia sissoo	Shisham	05	A native evergreen tree attracting large number of insects
18	Trema orientalis	Ghol	05	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index
19	Pongamia pinnata	Karanj	05	A native deciduous tree well suited to intense heat and sunlight and drought tolerant
20	Neolamarckia cadamba	Kadamba	04	A native evergreen tree with tremendous blooms attracting large number of insects
21	Pterospermum acerifolium	Karnikar	04	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation


45.Total quantity of plants on ground

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

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

47.Energy

Power requirement:	Source of power supply :	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	50 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	184 KW
	During Operation phase (Demand load):	90 KVA
	Transformer:	184 KW
	DG set as Power back-up during operation phase:	1 x 100 KVA
	Fuel used:	High Speed Diesel
Details of high tension line passing through the plot if any:	NA	


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48. Energy saving by non-conventional method:

8 nos of Solar street lights will be installed within the plot premises

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50. Details of pollution control Systems


Source	Existing pollution control system	Proposed to be installed
Air	Common stack of 11 m height for 0.6 TPH Boiler and 2 Lakh Kcal/hr Thermopack, to ensure effective dispersion of pollutants. 1 no of Alkali scrubber to scrub the process emissions. 1 m stack height for D. G set of 100 KVA capacity .	Common stack of 20 meters height attached to both boiler and thermopack. Alkali scrubber of 100 CFM capacity having stack height of 15m (above roof level). 1 m stack height for D. G set of 100 KVA capacity will be upgraded to 3 meters.
Water	ETP of 2 CMD capacity comprising of Primary, Secondary and Tertiary Treatment.	Existing ETP of 2 CMD capacity will be upgraded to 15 CMD capacity for treating additional effluent load after expansion. The ETP will comprise of Primary, Secondary and Tertiary Treatment.
Noise	Acoustic enclosures have been provided to D.G Sets. Preventive maintenance of all the noise generating equipments is being done	Existing pollution control systems are sufficient for the proposed expansion. A thick green belt will be provided on the periphery of the plant premises.
Soild hazardous waste	The hazardous waste is stored in a seperate demarcated area, the recyclables are sent to authorized vendors and the rest are sent to CHWTSDF for disposal	Existing pollution control systems are sufficient for the proposed expansion

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	Dust Generation due to demolition and construction of Raw material storage area and Process area.	Installation of barriers around the construction / demolition area, sprinkling of water for dust suppression, PPE's to workers exposed to dust pollution.	0.25
2	Water Pollution due to release of untreated sewage	Sewage effluent will be collected in septic tank and further will be treated in the aeration tank of ETP.	0.1
3	Noise pollution due to operation of heavy machinery and equipment	Installation of barriers around the construction / demolition area, PPE's to workers exposed to noise pollution.	0.25


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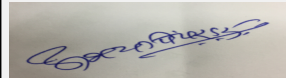
4	Construction debris and construction waste	The waste with saleable value like metal scrap will be sold off, construction debris will be utilized within the plot for leveling purpose.	0.2
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b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Upgradation of existing common stack of boiler & thermopack to 20 m height.	3	0.5
2	Water	Up gradation of existing ETP to 15 CMD capacity .	35	3
3	Noise	Development of acoustic enclosures and installation of shock absorbers & vibration absorbing pads.	1	0.5
4	Occupational Health	Purchase of PPE's and health check ups.	0.5	0.5
5	Green Belt	Development of green belt.	1.50	0.8
6	Solid Waste	Purchase of solid waste storage bags, containers.	1.50	1
7	Rain water harvesting	Provision of RWH system along with above ground collection tank of 10 CMD.	1	0.05

51.Storage of chemicals (inflammable/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
3,4 DFNB	Liquid	Enclosed shed	0.2	0.2	0.45887	Import	By air/sea and road
Morpholine	Liquid	Enclosed shed	0.2	0.2	0.30286	Local	By Road
Sodium Carbonate	Solid	Enclosed shed	0.2	0.2	0.87782	Local	By Road
Ethyl Acetate	Liquid	Enclosed shed	1.8	1.8	11.69076	Local	By Road
5% Pd/c	Solid	Enclosed shed	0.005	0.005	0.00687	Local	By Road
Hydrogen Gas	Gas	Enclosed shed	0.002	0.002	1.28763	Local	By Road
Methanol	Liquid	Enclosed shed	1.58	1.58	36.01166	Local	By Road
R-Epichlorohydrin	Liquid	Enclosed shed	0.2	0.2	0.28909	Import	By air/sea and road

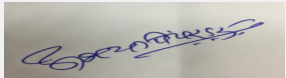

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DMF	Liquid	Enclosed shed	1.9	1.9	9.29326	Local	By Road
Potassium pthalimide	Solid	Enclosed shed	0.2	0.2	0.53321	Local	By Road
Ethylene Chloride	Liquid	Enclosed shed	2.5	2.5	20.25493	Local	By Road
Triphosgin	Solid	Enclosed shed	0.07	0.07	0.27367	Local	By Road
Tri Ethyl Amine	Liquid	Enclosed shed	0.2	0.2	0.75554	Local	By Road
Sodium Bicarbonate	Solid	Enclosed shed	0.025	0.025	0.02737	Local	By Road
Hydrazine Hydrate	Liquid	Enclosed shed	0.2	0.2	0.76717	Local	By Road
Activated Carbon	Solid	Enclosed shed	0.1	0.1	0.26665	Local	By Road
Methylene Chloride	Liquid	Enclosed shed	2.66	2.66	15.83067	Local	By Road
Acetic Anhydride	Liquid	Enclosed shed	0.2	0.2	0.46552	Local	By Road
Liquor Ammonia	Liquid	Enclosed shed	0.2	0.2	1.70153	Local	By Road
Thiophene Ester	Solid	Enclosed shed	0.075	0.075	0.37226	Import	By air/sea and road
Magnesium Metal	Solid	Enclosed shed	0.05	0.05	0.13401	Local	By Road
HCL	Liquid	Enclosed shed	0.35	0.35	6.86534	Local	By Road
Acetone	Liquid	Enclosed shed	0.316	0.316	0.71734	Local	By Road
Dimethyl Sulphate	Liquid	Enclosed shed	0.2	0.2	0.17705	Local	By Road
Sodium Hydroxide	Solid	Enclosed shed	0.2	0.2	1.67192	Local	By Road
Xylene	Liquid	Enclosed shed	1.76	1.76	25.88333	Local	By Road
2 Amino Pyridine	Solid	Enclosed shed	0.05	0.05	0.10833	Local	By Road
Potassium Carbonate	Solid	Enclosed shed	0.2	0.2	1.00093	Local	By Road
2 amino 5 methyl pyridine	Solid	Enclosed shed	0.1	0.1	0.2572	Local	By Road
Aluminum Chloride	Solid	Enclosed shed	0.05	0.05	0.12058	Local	By Road
4 Methyl Acetophenone	Solid	Enclosed shed	0.2	0.2	0.43724	Local	By Road
Bromine	Liquid	Enclosed shed	0.05	0.05	0.46811	Local	By Road
Toluene	Liquid	Enclosed shed	1.734	1.734	5.32891	Local	By Road
Oxalyl Chloride	Liquid	Enclosed shed	0.2	0.2	0.35185	Local	By Road
Acetic Acid	Liquid	Enclosed shed	0.175	0.175	0.6616	Local	By Road
DEG	Liquid	Enclosed shed	0.6	0.6	3.05	Local	By Road
Potassium Hydroxide	Solid	Enclosed shed	0.2	0.2	0.2879	Local	By Road
Loratadine	Solid	Enclosed shed	0.05	0.05	0.11574	Local	By Road
3 Chloromethyl 5 methyl pyridine HCL	Solid	Enclosed shed	0.05	0.05	0.06296	Local	By Road
TBAB	Solid	Enclosed shed	0.005	0.005	0.00463	Local	By Road
Potassium Dihydrogen Phosphate Fumaric Acid	Solid	Enclosed shed	0.01	0.01	0.01019	Local	By Road
Vanillin	Liquid	Enclosed shed	0.2	0.2	0.76923	Local	By Road
Pyridine	Liquid	Enclosed shed	0.2	0.2	1.04615	Local	By Road
N-1(3-cyano)	Solid	Enclosed shed	0.1	0.1	0.27174	Local	By Road
Barium Hydroxide	Solid	Enclosed shed	0.05	0.05	0.14946	Local	By Road
3- methylflavone	Solid	Enclosed shed	0.05	0.05	0.09091	Local	By Road
Piperidine Ethanol	Liquid	Enclosed shed	0.05	0.05	0.05818	Local	By Road
Thionyl Chloride	Liquid	Enclosed shed	0.2	0.2	0.07455	Local	By Road
IPA HCL	Liquid	Enclosed shed	0.2	0.2	0.21528	Local	By Road
N-1(Fluvoxamine Maleate)	Solid	Enclosed shed	0.05	0.05	0.08929	Local	By Road
PEG 400	Liquid	Enclosed shed	0.2	0.2	0.35714	Local	By Road


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2- Chloroethyl Amine	Liquid	Enclosed shed	0.04	0.04	0.04464	Local	By Road
Maleic Acid	Solid	Enclosed shed	0.01	0.01	0.0125	Local	By Road
Benzapropanol	Solid	Enclosed shed	0.2	0.2	0.11765	Local	By Road
I-mercapto methyl	Solid	Enclosed shed	0.04	0.04	0.04118	Local	By Road
Dimethyl Sulfoxide	Liquid	Enclosed shed	0.2	0.2	0.51765	Local	By Road
Sodium Methoxide	Solid	Enclosed shed	0.2	0.2	0.22824	Local	By Road
Di cyclohexylamine	Liquid	Enclosed shed	0.05	0.05	0.05882	Local	By Road
Hexane	Liquid	Enclosed shed	0.2	0.2	0.37647	Local	By Road
Ethanol	Liquid	Enclosed shed	0.2	0.2	0.29176	Local	By Road
N-Heptane	Liquid	Enclosed shed	0.2	0.2	0.73882	Local	By Road
N-1(Pregabalin)	Solid	Enclosed shed	0.2	0.2	0.90909	Local	By Road
Sodium Hypochlorite	Liquid	Enclosed shed	0.05	0.05	3.16364	Local	By Road
Isopropanol	Liquid	Enclosed shed	0.4	0.4	1.84545	Local	By Road
Tert. Butyl Rosuvastatin	Liquid	Enclosed shed	0.05	0.05	0.24691	Local	By Road
Calcium Chloride	Solid	Enclosed shed	0.05	0.05	0.05926	Local	By Road
N-1(Tapentadol Hydrochloride)	Solid	Enclosed shed	0.05	0.05	0.13889	Local	By Road
2-Methyl THF	Liquid	Enclosed shed	0.2	0.2	0.25	Local	By Road
Trifloro Acetic Anhydride	Liquid	Enclosed shed	0.05	0.05	0.16111	Local	By Road
10% Pd/C	Solid	Enclosed shed	0.005	0.005	0.01667	Local	By Road
IPA	Liquid	Enclosed shed	0.4	0.4	1.83333	Local	By Road
3-CMA	Solid	Enclosed shed	0.2	0.2	0.8	Local	By Road
OCBA	Solid	Enclosed shed	0.5	0.5	1.68	Local	By Road
Copper Powder	Solid	Enclosed shed	0.005	0.005	0.016	Local	By Road
Fumaric Acid	Solid	Enclosed shed	0.025	0.025	0.03333	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	75.0 Sq.m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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



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

Brief information of the project by SEAC

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

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

DECISION OF SEAC

SEAC-AGENDA-0000000142

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

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

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

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

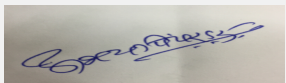
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- 4) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
- 5) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 6) PP to include detailed water balance in the EIA report along with design details of effluent treatment plant.
- 7) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 8) PP to submit a technical report on how the proposed expansion with respect to the production quantity will be accommodated in the existing facility along with structural stability certificate of existing buildings/structures on the site.
- 9) PP to submit an undertaking for not violating any requirements of EIA Notification, 2006.
- 10) PP to submit hazardous chemical handling protocol
- 11) PP to use new and renewable energy for the illumination of office building and street lights.
- 12) PP to provide lightening arrestor.
- 13) PP to conduct socio economic impact study.


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.


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th Day-2 Meeting Date:
October 5, 2018**

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Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th Day-2 Meeting Date October 5, 2018

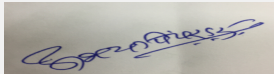
Subject: Environment Clearance for Storage of Chlorine (50 T/Day)

Is a Violation Case: No

1.Name of Project	Sterlite Technologies Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. S. Rajagopal
4.Name of Consultant	Gaurang Environmental Solutions
5.Type of project	NA
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	NA
8.Location of the project	Plot No. D-198 & D-199, Shendra MIDC
9.Taluka	Aurangabad
10.Village	Shendra
Correspondence Name:	Sterlite Technologies Ltd , MIDC Shendra, Aurangabad. Maharashtra-India
Room Number:	Plot No.D-198 & D-199
Floor:	NA
Building Name:	NA
Road/Street Name:	Shendra MIDC Road
Locality:	Shendra MIDC
City:	City Aurangabad
11.Area of the project	NA
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 6522
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.)	22734
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 6522
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 03-08-2018
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	1150000000

22.Number of buildings & its configuration


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



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1	NA	NA	NA
23.Number of tenants and shops	NA		
24.Number of expected residents / users	NA		
25.Tenant density per hectare	NA		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	19		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9		
29.Existing structure (s) if any	Na		
30.Details of the demolition with disposal (If applicable)	NA		

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Silicon Tetrachloride	0	500	500
2	Silicon Dioxide {By Product}	0	20	20


32.Total Water Requirement

Dry season:	Source of water	MIDC
	Fresh water (CMD):	89
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	167
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0


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Wet season:	Source of water	MIDC
	Fresh water (CMD):	83
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	155
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0

Details of Swimming pool (If any)


NA

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	4	4	0	1	1	0	3	3
Industrial Process	0	41	41	0	5	5	0	36	36
Cooling tower & thermopack	0	110	110	0	74	74	0	36	36
Gardening	0	6	6	0	6	6	0	0	0

34.Rain Water Harvesting (RWH)

Level of the Ground water table:	10
Size and no of RWH tank(s) and Quantity:	Will be submitted in detail in EIA Report
Location of the RWH tank(s):	Will be submitted in detail in EIA Report
Quantity of recharge pits:	Will be submitted in detail in EIA Report
Size of recharge pits :	Will be submitted in detail in EIA Report
Budgetary allocation (Capital cost) :	Rs. 10 Lacs
Budgetary allocation (O & M cost) :	Rs. 1 Lacs
Details of UGT tanks if any :	Will be submitted in detail in EIA Report



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Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	The plot is sloping in West-South direction. Natural drain is available along the side of roads.
	Quantity of storm water:	1136.7 m3 at pick rainfall
	Size of SWD:	1 m * 1 m * 1.25 m Depth along the plot boundary
Sewage and Waste water	Sewage generation in KLD:	3.2
	STP technology:	Septic Tank followed by Soak Pit
	Capacity of STP (CMD):	1 No 5 KLD
	Location & area of the STP:	Near ETP
	Budgetary allocation (Capital cost):	Rs 25 Lacs
	Budgetary allocation (O & M cost):	Rs 2.5 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Civil Construction Waste, Packing Waste, Steel Waste
	Disposal of the construction waste debris:	To be stored in dedicated storage yard and will be sold to authorized vendor
Waste generation in the operation Phase:	Dry waste:	Office waste: 50 Kg/Month, Polythene bags: 100 Kg/Month, Corrugated boxes: 240 Kg/Month
	Wet waste:	Canteen Waste: 100 Kg/Month
	Hazardous waste:	Sludge From Water Treatment: 120 T/Month, Waste Oil: 100 Liter/Month, Process Residue: 20 T/Month, Discarded containers barrels used for HW and chemical 100 No/M, Silicon Residue 20 T/m
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	100 kg/Month
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	Sale to Authorized Vendor
	Wet waste:	Sale to Authorized Vendor
	Hazardous waste:	To CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sale to Authorized Vendor
	Others if any:	NA
Area requirement:	Location(s):	Shendra MIDC
	Area for the storage of waste & other material:	4465 sqm
	Area for machinery:	1247 sqm
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	1150000000
	O & M cost:	5000000


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 (Chairman SEAC-I)**

37. Effluent Characteristics					
Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	From Cooling Tower, Boiler	RO	high TDS and neutral pH	As Per MPCB Norms	BOD<30, COD<150, TDS<2100
2	Scrubber Waste Water	ETP/MEE	salts of sodium silicate and	As Per MPCB Norms	BOD<30, COD<150, TDS<2100
3	For sludge handling	Filter Press/ Centrifuge	Salts	As Per MPCB Norms	BOD<30, COD<150, TDS<2100

Amount of effluent generation (CMD):	75
Capacity of the ETP:	90
Amount of treated effluent recycled :	75
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	ZLD-Process(CT & Boiler) Blow down after passing through RO, all reject will be send along Scrubber water to Clarifier where after sedimentation further purification will be done in MEE.
Disposal of the ETP sludge	Disposal to CHWTSDF/Sale.

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	35.3	T/Month	0	20	20	CHWTSDF
2	MEE Salt	35.3	T/Month	0	100	100	CHWTSDF
3	Waste Oil	5.1	Lit/Month	0	100	100	Sale to Authorised Vendor
4	Process Residue	27.1	T/Annum	0	20	20	CHWTSDF
5	Disposal of barrel	33.1	No./Month	0	10	10	Sale to Authorised Vendor

39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler 1	CNG 185 kg/Hr	1	30	0.5	140
2	Boiler 2	CNG 185 kg/Hr	1	30	0.5	140
3	Process Vent Scrubber	NA	1	30	0.5	40
4	Emergency Vent Scrubber	NA	1	30	0.3	40
5	Emergency Chlorine Scrubber	NA	1	20	0.3	40
6	DG Set	HSD 107 LPH	1	30	0.15	140

40. Details of Fuel to be used


Serial Number	Type of Fuel	Existing	Proposed	Total
1	CNG	0	5000 Ncum/Day	5000 Ncum/Day
2	HSD	0	107 LPH	107 LPH




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Dr. Umakant Dangat (Chairman SEAC-I)

41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		
43.Green Belt Development	Total RG area :	7607		
	No of trees to be cut :	0		
	Number of trees to be planted :	1000		
	List of proposed native trees :	Neem, Nandrulk , Sita Ashok, Shirish , Royal Palm, Palas, Maharukh, Laxmi Taru		
	Timeline for completion of plantation :	3 years		
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	65	Medicinal Value
2	Ficus microcarpa	Nandrulk	50	Medicinal Value
3	Saraca asoca	Sita Ashok	75	Beautification
4	Roystonea regia	Royal Palm	70	Beautification
5	Albizzi alebek	Shirish	80	Large Tree
6	Buteamono sperma	Palas	85	Beautification
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				


Abhay Pimparkar (Secretary SEAC-I)

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Name: Dr. Umakant Dangat
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 (Chairman SEAC-I)**

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	0.5 MW
	During Operation phase (Demand load):	0.5 MW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48. Energy saving by non-conventional method:

Solar system will be provided at Administration Building & also use for Street Light.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Street Light	5


50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler 1	0	Stack Height - 30 m With Flue gas Monitoring System
Boiler 2	0	Stack Height - 30 m With Flue gas Monitoring System
Process Vent Scrubber	0	Stack Height - 30 m With Chlorine Sensor
Emergency Vent Scrubber	0	SSStack Height - 30 m With Chlorine Sensor
Emergency Chlorine Scrubber	0	SSStack Height - 20 m With Chlorine Sensor
DG Set	0	Stack Height - 30 m

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs 50 Lacs
	O & M cost:	Rs 5 Lacs


51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


Abhay Pimparkar (Secretary SEAC-I)

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 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

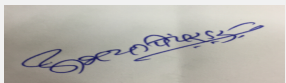
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Sanitation	Water Supply	20
2	Safety	Onsite Safety with Work permit system	30

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Automation	SRV's, RD's, Interlocks F&G detection system	500	25
2	Scrubbers	Process Vent, Emergency Vent and Chlorine Vent	390	50
3	WTP and ETP	Water Treatment Process	150	75
4	MEE	SWater Treatment Process with calendria	200	100
5	Fire and Safety	Fire Hydrant, Pumping Stations	900	50
6	Green Belt	Plantation	100	10
7	Rain water Harvesting	Collection of Rain Water	10	1
8	Solar	Street Light	25	2.5
9	OHS	Occupation Health and Safety measures	25	2.5
10	Energy Consumption	Condensate recovery system	25	2.5
11	HW/SW Management	Handling and Disposal Facility	100	10
12	Acoustic Enclosure	Prevent Noise and Vibration	25	2.5
13	Environmental Monitoring	Air, Water, Noise, Soil Monitoring	25	2.5
14	Online Monitoring	Stack and ETP Online Monitoring	25	2.5


51.Storage of chemicals (inflammable/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
CNG	Liquid	Gas Yard	20	15	116	Local Vendor	By Road in Tanker
Chlorine	Anhydrous	Storage Yard	55	50	430	GACL. Gujrat	By Road in Tanker
Caustic Lye	Liquid	ETP	20	15	60	Local Vendor	By Road in Tanker
Silicon Tetra Chloride	Liquid	Storage Yard	90	75	500	Local Vendor	ISO Tanker



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Liquid Nitrogen	Liquid	Gas Yard	20	15	60	Local Vendor	By Road in Tanker
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:	2274					
	Area per car:	NA					
	Area per car:	NA					
	Number of 2-Wheelers as approved by competent authority:	10					
	Number of 4-Wheelers as approved by competent authority:	10					
	Public Transport:	3 Buses					
	Width of all Internal roads (m):	6					
	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	6 (b)					
	Court cases pending if any	No					
	Other Relevant Informations	No					
	Have you previously submitted Application online on MOEF Website.	No					
	Date of online submission	-					
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS							


Abhay Pimparkar (Secretary SEAC-I)

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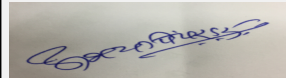

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015. PP proposes to store 50 Tons of chlorine on site.

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

DECISION OF SEAC

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th Day-2 Meeting Date: October 5, 2018	Page 63 of 99	 Dr. Umakant Dangat (Chairman SEAC-I)
----------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------	----------------------	--------------------------------------------------------------------------------------------------------------------------------------

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

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

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

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


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

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- 4) PP to carry out heat integration study and explore possibility to reuse heat generated in the process for other unit operations.
- 5) PP to submit storm water drain calculations considering the location of plot at the base of hillock, annual rain fall, contour of the area etc.
- 6) PP to carry out HAZOP and QRA and submit Disaster Management Plan. PP submit details of safety precautions proposed based on the results of HAZOP and Risk Assessment study.
- 7) PP to use new and renewable energy for the illumination of office building and street lights.
- 8) PP to submit their plan for handling an emergency in case of leakage of chlorine in view of evacuation time, training of the personnel, emergency response, medical assistance, rescue operations etc.
- 9) PP to conduct socio economic impact study and implementation plan along with time schedule based on outcome of the study.


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.


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th Day-2 Meeting Date:
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Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

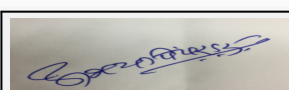
SEAC Meeting number: 156th Day-2 Meeting Date October 5, 2018

Subject: Environment Clearance for Environmental Clearance for the proposed capacity expansion by 300 MT/M of Ethoxylated Hydrophobes

Is a Violation Case: No

1.Name of Project	Proposed capacity expansion by 300 MT/M of Ethoxylated Hydrophobes by Deepchand Chemicals Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. P N Kanade ,Director
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Capacity Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot no. E-12/13, MIDC Lote Parshuram
9.Taluka	Khed
10.Village	Khed
Correspondence Name:	Mr. P N Kanade
Room Number:	11/1
Floor:	-
Building Name:	-
Road/Street Name:	Ambedkar Nagar
Locality:	Sion
City:	Mumbai
11.Area of the project	MIDC,Lote Parshuram
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)	No expansion will be done without obtaining prior Environmental Clearance
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	NA
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA b) Non FSI area (sq. m.): NA c) Total BUA area (sq. m.): 170
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA Approved Non FSI area (sq. m.): NA Date of Approval: 05-09-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	5700000


22.Number of buildings & its configuration




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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	NA			
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))	-			
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	Ethoxylated Hydrophobes	0	300	300
2	Phenol Glyon	10	0	10
32.Total Water Requirement				


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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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1	1	2	0.2	0	0.2	0.8	0	0.8
Industrial Process	1.5	0.5	2	1.8	0	1.8	0.2	0	0.2
Gardening	0.5	0	0.5	0	0	0	0	0	0



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	3-4
	Size and no of RWH tank(s) and Quantity:	1 No- 70KL
	Location of the RWH tank(s):	Near EO storage tank
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs. 4 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.2 Lakhs/annum
	Details of UGT tanks if any :	62 m3
35.Storm water drainage	Natural water drainage pattern:	Along plot boundary
	Quantity of storm water:	0.05 m3/sec
	Size of SWD:	500 mm x 500 mm
Sewage and Waste water	Sewage generation in KLD:	-
	STP technology:	Septic tank and soak pit
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Rs. 1 Lakh
	Budgetary allocation (O & M cost):	Rs. 0.30 Lakh/annum
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:	1.5 kg/day
	Wet waste:	1 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable


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Mode of Disposal of waste:	Dry waste:	Will be handed over to the local body after segregation.
	Wet waste:	Will be handed over to the local body after segregation.
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	Location(s):	Not applicable
	Area for the storage of waste & other material:	Not applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not applicable
	O & M cost:	Not applicable

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	COD	mg/L	200	less than 200	250
2	BOD	mg/L	20-25	100	100
3	Suspended Solids	mg/L	1200	100	100
4	pH	mg/L	5 -10	6-8	5.5-9
Amount of effluent generation (CMD):		0.2			
Capacity of the ETP:		0.8 m3/day			
Amount of treated effluent recycled :		The treated effluent is sent to CETP for further treatment			
Amount of water send to the CETP:		-			
Membership of CETP (if require):		CETP membership has been obtained			
Note on ETP technology to be used		Equalization and Physico + chemical Treatment (Primary) + Polishing (Tertiary treatment)			
Disposal of the ETP sludge		The sludge is disposed off through CHWTSDF			

38. Hazardous Waste Details

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

39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Thermic fluid heater	LDO	1	7.5 m	0.3	275 C

40. Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	1 KL	4KL	5KL


41. Source of Fuel Through local dealer



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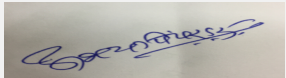
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42.Mode of Transportation of fuel to site		By road
43.Green Belt Development	Total RG area :	660 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	50 nos
	List of proposed native trees :	Cassia Fistula, Acacia Auriculiformis, Acacia Catechu, Acacia Nilotica, Acacia Senegal, Albizia Amara, Albizia Lebbeck, Azadirachta Indica, Citrus Lemon, Dalgerbia Sissoo, Erythrina Variegata, Gliricidia Sepium, Grewia Tenax, Hardwickia Binata, Leucaena Latisiliqua, Pithecellobium Dulce, Ziziphus Nummularia, Neolamarckia Cadamba, Holoptelea Integrifolia, Schleichora Oleosa, Xylia Xylocarpa, Bombax Ceiba, Terminalia Elliptica, Terminalia Paniculata, Helicteres Isora, Cordia Dichotoma, Macaranga P
	Timeline for completion of plantation :	With completion of the proposed expansions 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	2	Medicinal use, most importantly used in the Indian Pharmaceutical codex.
2	Acacia Auriculiformis	Kadamb	2	Used for fuel wood, charcoal is known for less smoke & spark, wood is used for making pulp.
3	Acacia Catechu	Khair	1	The heart wood and bark of the tree are used in traditional medicine for sore throats and diarrhea. It is also used for its actions like anti-dyslipidemia, anthelmintic, anti-inflammatory, anti-diuretic, anti-pruritic, coolant, taste promoting, enhancing digestion and curing skin disorders.
4	Acacia Nilotica	Babul	1	These trees are best fed dry as a supplement. In the present commercial market, gum arabic is defined as the dried exudate from the trunk of these trees.
5	Acacia Senegal	Khair	3	The tree parts are used as a food additive, in crafts, and as a cosmetic. The gum is drained from cuts in the bark. New foliage is very useful as forage.
6	Albizia Lebbeck	Siris	2	Its uses include environmental management, forage, medicine and wood. In India the tree is used to produce timber. Even where it is not native, some indigenous herbivores are liable to utilize lebbeck as a food resource.



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7	Azadirachta Indica	Neem	4	This tree's ,leaves, wood and seeds are used by Ayurvedic practitioners for Anthelmintic, antifungal, anti diabetic, antibacterial, antiviral, contraceptive, and sedative. Seeds are ground into a powder that is soaked overnight in water and sprayed onto the crop.
8	Citrus Lemon	Lemon	2	In this fruit vitamin C is high, which prevents scurvy. Citrus fruit intake is associated with a reduced risk of stomach cancer. Lemon have the highest concentration of citrate of any citrus fruit.
9	Dalgerbia Sissoo	Shisham	1	Shisham is best known economic timber and fuel also use to musical instruments, it is used for plywood, agricultural tools, flooring.
10	Erythrina Variegata	Panghara	2	Variegata is valued as an ornamental tree. Erythrina variegata is known as dap dap in the Philippines where its bark and leaves are used in medicine.
11	Hardwickia Binata	Kamara	1	The bark of the tree is used for making ropes and wood is used for making agricultural equipment.
12	Pithecellobium Dulce	Vialayti chincha	2	The bark and pulp are astringent and homeostatic and use the pulp and bark against gum ailments, toothache and haemorrhages in general. A bark extract is also used against dysentery, chronic diarrhoea and tuberculosis. An extract of the leaves is used for gall ailments and to prevent miscarriage. The ground seed is used to clean ulcers.
13	Ziziphus Nummularia	Bor	2	The fruit are edible. Dried fruit used medicinally as astringent in bilious affliction in India. The leaves are used to treat scabies and other skin diseases.
14	Butea Monosperma	Palash	2	Use of this tree is as a host of a lac insect for production of Rangini lac. The leaves are lobed for fodder for buffalo and are used for making leaf plates and cups and beedi wrapping. The oil is comparable to groundnut oil or sesame oil for use in soap industry.
15	Schlelchora Oleosa	Kusum	2	Leaves are edible. Oil obtained from the seed, called Macassar oil. Powdered seeds are applied to wounds and ulcers of cattle to remove maggots. The bark contains about 10% tannin and the analgesic compound lupeol.



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16	Xylia Xylocarpa	Jamba	2	A decoction is used to rid the body of worms, It is also used in the treatment of leprosy, vomiting, diarrhea, gonorrhoea and ulcers, The oil from the seeds is used in the treatment of rheumatism, piles and leprosy, The bark and wood are a source of tannins.
17	Bombax Ceiba	Sawar	1	It is used widely in the match industry, cheap light plywood for tea chests, fruit crates, packing cases, toys. And medical use in tonic, alterative, styptic and demulcent. It is used in dysentery, haemolysis of pulmonary tuberculosis, influenza etc.
18	Terminalia Elliptica	Ain	1	The wood is used for furniture, cabinetwork, joinery, paneling, specialty items, boat-building, railroad cross-ties (treated), and decorative veneers. The bark and especially the fruit yield pyrogallol and catechol to dye and tan leather. It is also thought to have curative value for stomach pain
19	Derris Indica	Karanj	2	It is often used for landscaping purposes as a windbreak or for shade due to the large canopy and showy fragrant flowers. The flowers are used by gardeners as compost for plants requiring rich nutrients. Oil and residue of the plant are toxic and will induce nausea and vomiting if ingested, the fruits and sprouts, along with the seeds, are used in many traditional remedies.
20	Mangifera indica	Mango	4	Most cultivated tree of tropical world grows up to 35-40 m, with crown radius of 10 m. Leaves are long, green, alternate and tree fruits in summer.
21	Cocos nucifera	Coconut	4	Large palm, growing up to 30 m, with pinnate leaves 4-6 meters long, and pinnae 60-90 cm long. It is Kalpa Vriksham of India..
22	Syzygium cumini	Jambhul	1	An evergreen tropical tree, grows up to 30 m. The flowers are fragrant and small. It produces oblong fruits in May or June. Seeds are used in Ayurveda
23	Tamarindus indica	Chinch	2	Long-lived, medium size, bushy tree, which attains a maximum crown height of 12.1 to 18.3 m. Leaves are evergreen, bright green , elliptical ovular, arrangement is alternate, of the pinnately compound type


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24	Ficus benghalensis	Vad	2	Large, sacred, and extensive growing tree of the Indian subcontinent. It produces propagating roots which grow downwards as aerial roots
25	Saraca asoca	Ashok	2	Small erect green tree with beautiful foliage and green flowers. Plays an important role in culture and tradition of India.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	Not applicable
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	19 KW
	During Operation phase (Demand load):	19 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	1x 40 kVA
	Fuel used:	LDO
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Solar Street lighting in landscape


49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	-	-

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
-	-	-

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


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51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution	Air Pollution Control	0.5	0.25
2	Water Pollution	Water Pollution Control	1.0	0.30
3	Environment Monitoring And Management	Air, Water, Noise, Soil sampling & testing	0	0
4	Occupational Health	Routine Health checkup for worker's	0.25	0.5
5	Green Belt	Green belt development, tree plantation	-	0.20
6	Solid waste	Solid waste management	0.25	0.25
7	Noise Pollution	Noise Pollution Control	-	-


51.Storage of chemicals (inflammable/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
EO	-	NE	4.5	4.5	30	Reliance industrial limited	By Road
Fatty alcohols	-	SW	8.5	8.5	25	Local dealer	By Road
Fatty amines	-	SE	8	8	60; proposed: 25	Local dealer	By Road
Phos. Pentoxide	-	SE	5	5	3	Local dealer	By Road
Fatty oils	-	SE	20	100	50; proposed: 50	Local dealer	By Road
Caustic soda/potash	-	SE	500 kg	1	1; proposed: 1	Local dealer	By Road
Acetic acid	-	SE	1	1	1	Local dealer	By Road
PEG/DEG	-	SE	2	2	2	Local dealer	By Road
Hydrogen peroxide	-	SE	300 kg	300 kg	300 kg	Local dealer	By Road



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Alkyl phenols	-	SE	20	20	5	Local dealer	By Road
52. Any Other Information							
No Information Available							
53. Traffic Management							
	Nos. of the junction to the main road & design of confluence:	-					
Parking details:	Number and area of basement:	Not applicable					
	Number and area of podia:	Not Applicable					
	Total Parking area:	240 m ²					
	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:	-					
	Width of all Internal roads (m):	-					
	CRZ/ RRZ clearance obtain, if any:	NA					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA					
	Category as per schedule of EIA Notification sheet	5 F					
	Court cases pending if any	NA					
	Other Relevant Informations	NA					
	Have you previously submitted Application online on MOEF Website.	Yes					
	Date of online submission	01-09-2018					
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS							


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

Brief information of the project by SEAC

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


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

DECISION OF SEAC


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

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

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

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

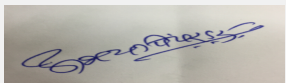
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- 4) PP to submit a technical report on how the proposed expansion with respect to the production quantity will be accommodated in the existing facility along with structural stability certificate of existing buildings/structures on the site.
- 5) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
- 6) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 7) PP to include detailed water balance calculations along with design of effluent treatment plant.
- 8) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 9) PP to submit hazardous chemical handling protocol
- 10) PP to provide lightening arrestor.
- 11) PP to conduct socio economic impact study.


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.


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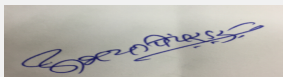
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Subject: Environment Clearance for Grant of Violation ToR's for Expansion of grain based distillery from 30 KLPD to 58 KLPD (expansion by 28 KLPD.)

Is a Violation Case: Yes

1.Name of Project	M/s. Viraj Alcohols & Allied Industries Ltd.,
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mansing Fattensingrao Naik (Chairman)
4.Name of Consultant	Equinox Environments (India) Pvt. Ltd., Kolhapur
5.Type of project	Industry
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of grain based distillery from 30 KLPD to 58 KLPD (expansion by 28 KLPD.) Application for ToR's
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance granted by MoEF vide letter no. - J-11011/185/2006-IA II (I) Dated 25 September, 2006
8.Location of the project	Gat No. 511
9.Taluka	Shirala
10.Village	Kapari
Correspondence Name:	Yuvraj B. Gaikwad (General Manager)
Room Number:	--
Floor:	--
Building Name:	Viraj Alcohols & Allied Industries Ltd.
Road/Street Name:	A/p.-Kapari
Locality:	Tal.: Shirala
City:	Sangli
11.Area of the project	NA
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 13088.77
13.Note on the initiated work (If applicable)	One additional silo, additional 7 distillation columns and higher capacity boiler installation has been done on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	44515.9
16.Deductions	NA
17.Net Plot area	44515.9 Sq. M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	120600000

22.Number of buildings & its configuration



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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	NA			
24.Number of expected residents / users	NA			
25.Tenant density per hectare	NA			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	NA			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable			
29.Existing structure (s) if any	Not applicable			
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	Rectified Spirit (RS)	900 KL/M	840 KL/M	1740 KL/M
2	Ethanol	802 KL/M	749 KL/M	1551 KL/M
3	Extra Neutral Alcohol (ENA)	812 KL/M	758 KL/M	1570 KL/M
4	Electricity	--	1 MW	1 MW
5	CO2 Gas	660 MT/M	616 MT/M	1276 MT/M
6	DWGS	2220 MT/M	2070 MT/M	4290 MT/M
7	DDGS	390 MT/M	360 MT/M	750 MT/M
32.Total Water Requirement				


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Dry season:	Source of water	Warna River
	Fresh water (CMD):	323
	Recycled water - Flushing (CMD):	725 (In process & utilities; not for flushing)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1048
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	Source of water	Warna River
	Fresh water (CMD):	288
	Recycled water - Flushing (CMD):	760 (In process & utilities; not for flushing)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1048
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	18	0	18	2.5	0	2.5	15.5	0	15.5
Industrial Process	298	281	579	34	32	66	264	249	513
Cooling tower & thermopack	257	194	451	237	184	421	20	10	30



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Planning of RWH is done. Implementation on site is under process
	Size and no of RWH tank(s) and Quantity:	Planning of RWH is done. Implementation on site is under process
	Location of the RWH tank(s):	Planning of RWH is done. Implementation on site is under process
	Quantity of recharge pits:	Planning of RWH is done. Implementation on site is under process
	Size of recharge pits :	Planning of RWH is done. Implementation on site is under process
	Budgetary allocation (Capital cost) :	Rs. 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1 Lakhs
	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:	15.5 CMD. Same will be treat in proposed STP.
	STP technology:	Activated Sludge Process (ASP)
	Capacity of STP (CMD):	20 CMD
	Location & area of the STP:	Towards south direction of plot
	Budgetary allocation (Capital cost):	Rs. 15 lakhs
	Budgetary allocation (O & M cost):	Rs. 0.25 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	Existing Bagasse Ash - 1.5 MT/D, Proposed bagasse/ biomass ash - 1.1 MT/D OR Coal Ash - 3.5 MT/D
	Wet waste:	NA
	Hazardous waste:	Distillation residue - (Cat. 20.3) and ETP Sludge (Cat 34.2) - 0.0048 MT/D
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.002 MT/D
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Bagasse Ash- Used as Manure. Coal Ash-Supplied to Brick manufacturer
	Wet waste:	NA
	Hazardous waste:	Distillation Residue and ETP Sludge -Used as Manure as a soil conditioner.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	Within industrial premises (5 Sq. M.)
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 35 Lakhs
	O & M cost:	Rs. 1 Lakhs

37. Effluent Characteristics


Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	4.30	6.92	--
2	Suspended Solids (SS)	mg / lit	83.00	52.00	100
3	Total Dissolved Solids (TDS)	mg / lit	767.00	540.00	2100
4	Chemical Oxygen Demand (COD)	mg / lit	2037.60	90.60	250
5	Biochemical Oxygen Demand (BOD)	mg / lit	831.65	32.30	100
Amount of effluent generation (CMD):		41 CMD			
Capacity of the ETP:		72 CMD			
Amount of treated effluent recycled :		35 CMD			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Primary, Secondary and Tertiary treatment, ASP			
Disposal of the ETP sludge		Used as Manure as a soil conditioner			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation Residue and ETP Sludge	Cat.20.3 and Cat. 34.2	Kg/D	2.5	2.3	4.8	Used as Manure as a soil conditioner.


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
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1	Boiler	Bagasse (130 MTPD) or Coal (70 MTPD) or Cashew cake (70 MTPD)	1	Existing 33 M, After expansion 40 M	1.8	125°C
---	--------	---------------------------------------------------------------	---	-------------------------------------	-----	-------

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse (MTPD)	75	55	130
2	Coal (MTPD)	--	70	70
3	Cashew cake (MTPD)	--	70	70

41.Source of Fuel Bagasse - nearby sugar factories, Coal - authorized coal supplier

42.Mode of Transportation of fuel to site By road

43.Green Belt Development	Total RG area :	14,700 Sq. M.
	No of trees to be cut :	NA
	Number of trees to be planted :	200
	List of proposed native trees :	Chinch, Vad, Pimpal, Silver Oak, Karanj, Saptaparni, Ashok, Umbar, rain tree
	Timeline for completion of plantation :	Already 33% of green belt is developed on site. under expansion of distiller existing green belt will be segmented.

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	Samaneo samon	Rain tree	20	Evergreen
2	Delonix regia	Gulmohor	15	Evergreen
3	Millettia pinnata	Karanj	20	Evergreen
4	Alstonia scholaris	Saptaparni	10	Evergreen
5	Anthocephalus chmensis	Kadamb	25	Deciduous
6	Tomorindus indica	Chinch	12	Deciduous
7	Polyalthia longifolia	Ashok	5	Evergreen
8	Ficus religiose	Pimpal	10	Evergreen
9	Ficus benghalensis	Vad	5	Evergreen
10	Ficus glomerate	Umbar	20	Deciduous

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


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Power requirement:	Source of power supply :	Own turbine & generator (1 MW)
	During Construction Phase: (Demand Load)	NIL
	DG set as Power back-up during construction phase	NIL
	During Operation phase (Connected load):	NIL
	During Operation phase (Demand load):	1MW
	Transformer:	NA
	DG set as Power back-up during operation phase:	Existing 160 KVA & proposed 320 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

NIL

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler	Mechanical Dust Collector (MDC) followed by bag filter with 33 M height of of stack	MDC followed by bag filters along with 40 M height of stack

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


51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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


b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	APC Equipment	Bag Filters to 20 TPH boiler and increasing stack height so as to make 40 M stack, Online monitoring system.	56	1


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2	Installation of STP	Installation of STP	15	0.25
3	ETP	ETP	60	1.5
4	Noise Pollution Control	Noise Pollution Control	10	0.50
5	Occupational Health & Safety	Occupational Health & Safety	5	0.50
6	Environmental Monitoring & Management	Environmental Monitoring & Management	5	10
7	Solid Wastes Disposal -Ash Silos, Transportation	Solid Wastes Disposal -Ash Silos, Transportation	35	1
8	Green Belt Augmentation Plan & Rain Water Harvesting implementation.	Green Belt Augmentation Plan & Rain Water Harvesting implementation.	25	1.25
9	CSR amount (for 2.5 years after expansion)	CSR amount (for 2.5 years after expansion)	42.5	-

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


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

52.Any Other Information

No Information Available


53.Traffic Management

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

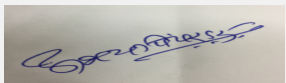

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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	NIL
	Other Relevant Informations	ToR's granted by SEAC-1 in 124th meeting dt. 30.03.2016. SEAC-1 committee visited to site on 26.04.2016. Site visit report was discussed in 126th SEAC-1 meeting. In 127th SEAC-1 meeting violation noticed. Compliance done by industry and submitted to DoE, Maharashtra time to time. Subsequently, EIA done & Public Hearing conducted.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS		
Environmental Impacts of the project	Not Applicable	
Water Budget	Not Applicable	
Waste Water Treatment	Not Applicable	
Drainage pattern of the project	Not Applicable	


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

Brief information of the project by SEAC

PP has obtained earlier EC vide No. J-11011/185/2006-IA-II(I) dated 25.09.2006 from MoEF&CC. PP has obtained certified compliance report from the Regional Office of MoEF&CC, Nagpur vide No. 5-87/2006 (ENV) 3915 dated 05.07.2018.


PP applied for the expansion of the project to SEAC-1 and was considered by SEAC in their 124th meeting held on 30th to 31st March, 2016 where in ToR was granted to the PP for the preparation of EIA/EMP Reprot.

A site visit was conducted by the SEAC-1 on 26.04.2016 where in it was observed that, PP has violated few conditions stipulated in the environment clearance. The site visit reprot was discused by the SEAC in their 126th meeting held on 29th and 30th April, 2016. From then the proposal was pending.

PP submitted application under violation category as per Notification issued by MoEF&CC dated 08.03.2018.


PP presented the proposal for ToR as per standard ToR issued by MoEF&CC in April 2015 and Notification issued on 08.03.2018.

DECISION OF SEAC


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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 for the preparation of EIA/EMP report and remediation plan as mentioned in the EIA Notification 2006 and amended on 08.03.2018 etc.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.
PP to collect one month data of current time for comparison.

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

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

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

Public Consultation to be carried out as per procedure stipulated in the EIA Notification,2006.

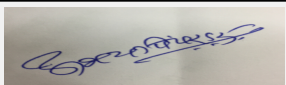
PP to refer to the Office Memorandum issued by MoEF&CC dated 19.08.2018 with respect to the standard conditions to be stipulated in the Environment Clearance letter for the projects falling under category 5(f) to identify the impact of operations on the environment attributes and implement appropriate mitigation measures to reduce the impact.

PP to identify all such activities on site which have impacted on the various verticals of the environment like Water, Air, Soil and Noise etc and compare it with the standard parameters to assess the damage as referred in the Notification dated 08.03.2018.

Specific Conditions by SEAC:


- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department."
- 4) PP to submit permission and copy of agreement made with irrigation department for the lifting of water from river Morna.
- 5) PP to submit project site details (location, top sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
- 6) PP to submit details of Forest and Wild Life eco- sensitive zones if any in the study area and within the range of 5 km.
- 7) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
- 8) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
- 9) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.
- 10) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 11) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
- 12) PP to carry out Risk Assessment and submit Disaster Management Plan.
- 13) PP to provide new and renewable energy sources for the illumination of the office building and street lights.
- 14) PP to include a technical note on the use of food grains for the manufacturing of alcohol in view of food security issues.
- 15) PP to submit point wise compliance status of the conditions stipulated in the earlier environment clearance, consent letters etc.

FINAL RECOMMENDATION


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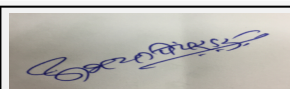
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The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

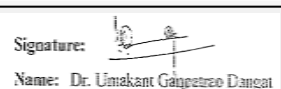
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156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

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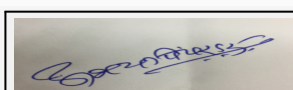
Subject: Environment Clearance for Environment Clearance for proposed industrial project

Is a Violation Case: No

1.Name of Project	Proposed Synthetic Organic Chemical Plant
2.Type of institution	Private
3.Name of Project Proponent	M/s.Omesa Drugs And Chemicals Private Ltd.
4.Name of Consultant	Green Circle Inc.
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot.No.D-7, Mahad Industrial Area,
9.Taluka	Mahad
10.Village	Birwadi
Correspondence Name:	Dr. Sanjay Suresh Sawant
Room Number:	Flat.No.C-102,
Floor:	1st Floor,
Building Name:	Ganesh Nabhangan, Sr.No.18/19,
Road/Street Name:	B-20, Raikarnagar, Sinhagad Road,
Locality:	Dhayari,
City:	Pune-411041
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval from Executive Engineer MIDC, Mahad.
15.Total Plot Area (sq. m.)	1500 m2
16.Deductions	--
17.Net Plot area	1500 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 488.50
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	280 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.67%
21.Estimated cost of the project	12600000.0

22.Number of buildings & its configuration


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



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1	Building 1	G + 1	10
23.Number of tenants and shops	NA		
24.Number of expected residents / users	Workers: 20, Staff: 4.		
25.Tenant density per hectare	NA		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	25 m		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 7 m		
29.Existing structure (s) if any	NA		
30.Details of the demolition with disposal (If applicable)	NA		

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	FINE CHEMICALS	--	--	--
2	Fendizoic Acid	0	0.5	0.5
3	1-Hydroxybenotriazole	0	2.0	2.0
4	tert-Butyl Hydroquinone	0	1.0	1.0
5	Butylated Hydroxy Anisole	0	0.5	0.5
6	L-Ascorbyl-6-palmitate	0	0.5	0.5
7	Methyl acetoacetate	0	5.0	5.0
8	Mono methyl chloro acetate	0	5.0	5.0
9	PRODUCTS	--	--	--
10	Bronopol	0	4.0	4.0
11	Piracetam	0	0.5	0.5
12	Miconazole Nitrate	0	1.0	1.0
13	Brimonidine Tartarate	0	0.01	0.01
14	Bromfenac Sodium	0	0.01	0.01
15	Nepafenac Sodium	0	0.01	0.01
16	Atenolol	0	0.5	0.5
17	Propranolol	0	0.5	0.5


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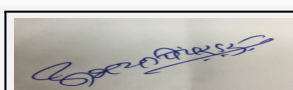
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18	Albendazole	0	1.0	1.0
19	Darunavir	0	0.01	0.01
20	Glycine	0	5.0	5.0
21	Sulphanil amide	0	2.0	2.0
22	Lithium Carbonate	0	1.0	1.0
23	Diclofenic Sodium	0	2.0	2.0
24	Etamsylate	0	1.0	1.0
25	Chlorpromazine	0	0.5	0.5
26	Febuxostat	0	1.0	1.0

32.Total Water Requirement

Dry season:	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	11 m3
	Fire fighting - Overhead water tank(CMD):	10 m3
	Excess treated water	NA
Wet season:	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	11 m3
	Fire fighting - Overhead water tank(CMD):	10 m3
	Excess treated water	NA
Details of Swimming pool (If any)	NA	


33.Details of Total water consumed



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Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	1.0	1.0	0	0.1	0.1	0	0.9	0.9
Industrial Process	0	8.5	8.5	0	0.5	0.5	0	8.0	8.0
Cooling tower & thermopack	0	4.0	4.0	0	1.5	1.5	0	2.5	2.5
Gardening	0	0.5	0.5	0	0.5	0.5	0	0.5	0.5

34. Rain Water Harvesting (RWH)	Level of the Ground water table:	2 mtr
	Size and no of RWH tank(s) and Quantity:	4 x 4 x 1 mtr 1 nos
	Location of the RWH tank(s):	Near main gate
	Quantity of recharge pits:	16 cubic mtr
	Size of recharge pits :	2 x 2 x 1 mtr
	Budgetary allocation (Capital cost) :	Rs. 1.93 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.2 Lakhs /annum
	Details of UGT tanks if any :	UGT: 10 cubic mtr

35. Storm water drainage	Natural water drainage pattern:	Through MIDC drain
	Quantity of storm water:	778 cubic mtr. Annually
	Size of SWD:	300 mm wide


Sewage and Waste water	Sewage generation in KLD:	1.0 m3/day
	STP technology:	Sewage shall be treated within the ETP
	Capacity of STP (CMD):	Sewage shall be treated within the ETP
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36. Solid waste Management


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Waste generation in the Pre Construction and Construction phase:	Waste generation:	Top soil shall be removed for foundation work
	Disposal of the construction waste debris:	Excavated soil shall be stored and will be used for plantation work
Waste generation in the operation Phase:	Dry waste:	NA
	Wet waste:	300 kg /Month (Plastics ,Spent Carbon ,Hyflow)
	Hazardous waste:	300 kg / Month ETP Sludge
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Ash: 200 Kg / Month
Mode of Disposal of waste:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	Shall be sent to Authorized waste management unit
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	4 x 4 mtr
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 6 Lakhs
	O & M cost:	Rs. 1.5 Lakhs/annum


37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	5-8	6.5-8.5	5.5-9.0
2	TDS	mg/lit	2000	<100	<2100
3	BOD	mg/lit	250-300	<10	<100
4	COD	mg/lit	7000-8000	<50	<250

Amount of effluent generation (CMD):	11.4 m3/day
Capacity of the ETP:	13 m3/day
Amount of treated effluent recycled :	0.9 m3/day
Amount of water send to the CETP:	10.5 m3/day
Membership of CETP (if require):	Applied for Membership
Note on ETP technology to be used	As per MPCB guideline
Disposal of the ETP sludge	Sent To CHWMT


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
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1	Spent Carbon	Schedule I	KG	0	100 KG / M	100 KG / M	Send to CHWMT
2	Spent Hyflow	Schedule I	KG	0	200 KG / M	200 KG / M	Send to CHWMT
3	ETP sludge	Schedule I	KG	0	300 KG / M	300 KG / M	Send to CHWMT

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	BRICKATE/Coal 500 Kg /day	1 nos.	1.2 mtr to 2.0 mtr	500 mm to 700 mm	110 Degree Celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	BRICKATE/Coal	0	200 Kg /day	200 Kg /day
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Local transport		

43.Green Belt Development

Total RG area :	NA
No of trees to be cut :	0
Number of trees to be planted :	25
List of proposed native trees :	As per below table
Timeline for completion of plantation :	Before completion of project

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

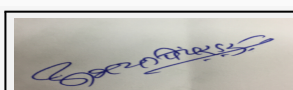
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Lagerstroemia flosregineae	Tamhan	3	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
2	Butea monosperma	Palas	5	Medium sized deciduous tree
3	Bauhinia racemosa	Apta	5	Small tree with small white flowers, Butterfly host plant
4	Cassia fistula	Bahawa	5	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
5	Azadirachta indica	Neem	7	Semi-evergreen tree with medicinal value

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

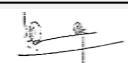
47.Energy



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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	5 HP
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	100 HP
	During Operation phase (Demand load):	75 HP
	Transformer:	Supply of MSEDCL
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

1. LED Light.
2. Solar System used for Straight Light.
3. Energy saving Equipment Used

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Led Light	100 nos
2	VFD for Reactor	4 nos
3	VFD for Pump	10 nos
4	Lighting Transformer	1 nos



50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution from Process, Boiler and DG sets	NA	Scrubber arrangement Installed
Effluent from Process	NA	ETP Installed
Solid & Hazardous waste	NA	Sent to CHWMST

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 15 Lakhs
	O & M cost:	Rs. 4 Lakhs/annum

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	To control air pollution	Water For Dust Suppression	1
2	To maintain hygienic condition	Site Sanitation, Disinfection& Safety	2
3	Air, water, noise and soil analysis	Environmental Monitoring	2
4	To check fitness of workers	Health Check Up	1
5	NA	TOTAL	6

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 Environment	Air pollution controlling equipments	7	3.5
2	Effluent Treatment Plant	To treat effluent and sewage	25	2.0
3	Noise Pollution	Noise pollution controlling equipment	1	0.5
4	Rain Water Harvesting	To harvest rain water	1.93	0.2
5	Tree Plantation	For green belt development	3	1
6	Energy saving	For use of solar lighting and solar heater	15	4
7	Solid waste management	To treat biodegradable waste	6	1.5
8	Environment Monitoring	Air, water, noise and soil analysis	5	2.5
9	Occupational Health	Health & Safety of worker	1	1
10	NA	TOTAL	64.93	16.2

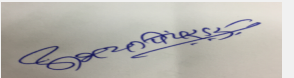
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

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
Liq.Bromine (Hazardous)	Liquid	Store Dept. Area 20 Sq.Mtr	12 MT/ Month	10 MT/ Month	4 MT/ Month	Local Vendor	By Road

52.Any Other Information


No Information Available

53.Traffic Management


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	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	41.25 m ²
	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):	5 mtr
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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


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

Brief information of the project by SEAC

PP already submitted the application vide consolidated statement number 1111. This is duplication of application.


DECISION OF SEAC

As the PP submitted earlier application which was considered in the 151st meeting held on 22.05.2018, SEAC decided to consider the CS No. 1111 and delist the CS No. 1110.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

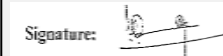
Kindly find SEAC decision above.



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