

153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

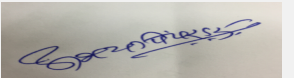
SEAC Meeting number: 153rd (Day-1) Meeting Date June 30, 2018

Subject: Environment Clearance for Proposed Expansion Project of M/s D.R. Coats Ink & Resins Pvt. Ltd., located at Plot No : L-30, Additional Mahad MIDC, Amshet Village, Mahad, District Raigad, Mahatashtra.

Is a Violation Case: No

1.Name of Project	D.R. Coats Ink & Resins Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Yashashvi Drolia
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 for manufacturing of new products with existing resin blending activity.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance was not required , since company is engaged in formulation/blending of resins.
8.Location of the project	Plot No : L-30, Addl. Mahad MIDC
9.Taluka	Mahad
10.Village	Amshet
Correspondence Name:	Unit no. 203, New Sonal link industrial estate, Bld. No. 2, second floor, Link road, Malad (W), Mumbai-64
Room Number:	Unit no. 203
Floor:	second floor
Building Name:	New Sonal link industrial estate, Bld. No. 2
Road/Street Name:	Link road
Locality:	Malad (W)
City:	Mumbai-64
11.Area of the project	Addl. Mahad MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 7090.39
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.)	16675 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.): 7090.39
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	33000000

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))	9 meters			
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	Resin (Blending)	630	490	1120
2	Polyamides Resins	0	1300	1300
3	Ketonic Resin	0	10	10
4	Phenolic Resin	0	300	300
5	Acrylic Resin	0	1000	1000
6	Polyster Resin	0	1000	1000
7	Amino Resin	0	300	300
8	Polyurethane	0	1500	1500
9	Rosin Esters	0	300	300
10	Alkyd Resin	0	600	600
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	1.98	1.17	3.15	0.4	0.23	0.63	1.58	0.94	2.52
Industrial Process	1	1	2	0	0	0	1	6.12	7.12
Cooling tower & thermopack	5.54	41.32	46.86	4.92	36.46	41.38	0.62	4.86	5.48
Gardening	0	27.5	27.5	0	27.5	27.5	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 :	NA
35.Storm water drainage	Natural water drainage pattern:	Storm water drainage of adequate capacity will be provided
	Quantity of storm water:	10.35 M3/Hr
	Size of SWD:	The SWD will be designed as per the quantity of storm water expected to be received during rainy season
Sewage and Waste water	Sewage generation in KLD:	2.52
	STP technology:	Sewage from domestic activity will be treated in 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:	Construction waste such as left off concrete, stone, aggregates, wooden piles, excavation material etc.
	Disposal of the construction waste debris:	The solid waste generated during construction phase will be disposed off through local body.
Waste generation in the operation Phase:	Dry waste:	Office waste such as paper and other domestic waste
	Wet waste:	NA
	Hazardous waste:	Chemical sludge from wastewater treatment : 1.45 MT/M, Used/ spent oil: 5 Kg/M, Discarded containers barrels/liners/ plastic bags/ PPE etc contaminated with hazardous chemicals /waste : 4800 Nos/M, Evaporation Residue from waste water treatment unit : 0.141 MT/D
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	E-Waste from office (as per Schedule 1 of E-waste management rule,2016) : 10 Kg/M, HDPE drums/Paper bags (Non-Contaminated) : 2000 Nos/M


Mode of Disposal of waste:	Dry waste:	Through local municipal waste disposal facility
	Wet waste:	NA
	Hazardous waste:	Chemical sludge from wastewater treatment & Evaporation Residue from waste water treatment unit will be disposed through CHWTSDF And Used/ spent oil, Discarded containers barrels/liners/ plastic bags/ PPE etc contaminated with hazardous chemicals /waste will be sold to MPCB authorized recycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Sale to MPCB approved scrap dealer
Area requirement:	Location(s):	Dedicated area for storage of SHW is provided near to ETP
	Area for the storage of waste & other material:	20 sq.m.
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	2 Lakh
	O & M cost:	10.4 Lakh

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	4.5	6.5-7.5	6.5-7.5
2	COD	mg/l	15000	<250	<250
3	BOD	mg/l	6043	<100	<100
4	TDS	mg/l	1000	<1000	<2100
5	TSS	mg/l	200	<100	<100
Amount of effluent generation (CMD):		15.12 CMD			
Capacity of the ETP:		30 CMD			
Amount of treated effluent recycled :		It will be ZLD unit			
Amount of water send to the CETP:		It will be ZLD unit			
Membership of CETP (if require):		It will be ZLD unit			
Note on ETP technology to be used		Company will utilized existing ETP of 30 CMD capacity, comprises of Primary, Secondary & Tertiary treatment facility. addition to this installation of RO and Evaporator system will be done to achieve complete ZLD			
Disposal of the ETP sludge		Disposal of ETP sludge will be done through CHWTSDF			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from wastewater treatment	34.3	MT/M	0.2	1.25	1.45	Through CHWTSDF
2	Used/ spent oil	5.1	Kg/m	5	0	5	Through MPCB authorized recycler


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3	Discarded containers barrels/liners/ plastic bags/ PPE etc contaminated with hazardous chemicals /waste	33.1	Nos/M	4800	0	4800	Through MPCB authorized recycler
4	Evaporation Residue from waste water treatment unit	37.3	MT/D	0	0.141	0.141	Through CHWTSDF
5	E-Waste from office	as per Schedule 1 of E-waste management rule,2016	Kg/M	0	10	10	Through MPCB approved 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	Common stack attached to Boiler & Thermopack	FO	01	30	0.4	150 Deg C
2	Stack Attached to DG set	HSD	02	3 m above roof	0.1	190 Deg C
3	Stack attached to scrubber	-	03	11	0.1	35 Deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO	0.96 KLD	1.99 KLD	2.95 KLD
2	HSD	25 L/Hr	8 L/hr	33 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 :	5502.75 sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	786
	List of proposed native trees :	Neolamarckia cadamba, Callicarpa tomentosa, Trema orientalis, Dalbergia sissoo, Azadirachta indica, Erythrina suberosa, 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, Dalbergia sissoo, Trema orientalis, Callicarpa tomentosa, Neolamar
Timeline for completion of plantation :	1.5 year sAfter 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
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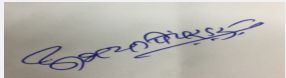

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1	Cassia fistula	Bahava	19	Native ornamental tree having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	19	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	19	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Macaranga peltata	Chandwar	19	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kususm	19	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	19	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	19	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	19	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	19	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	19	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	19	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Helicteres isora	Murudsheng	19	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
13	Holoptelea integrifolia	Ainasadada	19	A native deciduous tree of forest tracts of Sahyadri ranges
14	Butea monosperma	Palash	19	A native brilliantly flowering tree abundant the Palghar District visited by large number of birds
15	Oroxylum indicum	Tetu	19	A native ornamental Tree
16	Erythrina suberosa	Pangara	19	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
17	Azadiracta Indica	Kadulimb	19	A native evergreen tree capable of surviving in comparatively polluted environs
18	Dalbergia sissoo	Shisham	19	A native evergreen tree attracting large number of insects
19	Trema orientalis	Ghol	19	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index


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20	Callicarpa tomentosa	Aiser	19	A native evergreen medium sized tree of forest tracts of Sahyadri ranges with hairy thick leaves having comparatively higher dust settling index
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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)	50 KVA
	DG set as Power back-up during construction phase	200 KVA
	During Operation phase (Connected load):	135 KW
	During Operation phase (Demand load):	150 KVA
	Transformer:	135 KW
	DG set as Power back-up during operation phase:	200 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, Since it is only blending process	1 nos scrubber of 1000 CFM capacity will be installed
Boiler & Thermopack	Stack of 21 meter height is provided	Common stack of 30 meters height will be provided
D.G. Set	3 m above roof	3 m above roof

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



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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	Air Emission	Dust Suppression	1
2	Water Environment	Existing sanitation facilities will be utilized	0
3	Solid Hazardous waste	Handling, transportation and disposal of non hazardous solid waste	1
4	Noise Environment	PUC certified vehicles etc, PPE	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 Environment	Construction of common stack of 30 meters and Installation of new scrubber	18	2.5
2	Noise Environment	Noise Pollution Control, Installation of anti-vibration pads, & Enclosures.	1.2	0.25
3	Water Environment	Up gradation of existing ETP by installation of RO & Evaporator for treatment of RO reject.	45	3
4	Environment Monitoring & Management	Quarterly Environment Monitoring	0	3.5
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual healthmedical checkup of workers	3	0.7
6	Green Belt	Installation of water drip , Greenbelt development and its maintenance	3.065	2.225
7	Solid Waste Management	Solid Waste Management	2	10.4

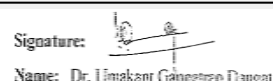
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)



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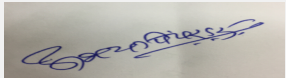
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Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Dimer Acid	Liquid	Tanks	60	60	778	Local	By Road
Ethylenediamine	Liquid	Drums	7.5	7.5	186	Local	By Road
Diethylenetriamine	Liquid	Drums	7.5	7.5	186	Local	By Road
Tetraethylenepentamine	Liquid	Drums	7.5	7.5	186	Local	By Road
Triethylenetetramine	Liquid	Drums	7.5	7.5	186	Local	By Road
Fatty Acid	Liquid	Tank	30	30	240	Local	By Road
Cyclohexanone	Liquid	Drums	2	2	5	Local	By Road
Paraformaldehyde	Solid	Bags	8	8	95	Local	By Road
Phenol	Liquid	Tank	30	30	243.66	Local	By Road
Rosin	Liquid	Drums	25	25	289	Local	By Road
Bisphenol-A	Solid	Bags	1	1	15	Local	By Road
Maleic Anhydride	Solid	Bags	12	12	160.75	Local	By Road
Pentaerythritol	Solid	Bags	1	1	9	Local	By Road
Oxalic Acid	Solid	Bags	0.1	0.1	0.99	Local	By Road
Acrylates	Liquid	Drums	2.9	2.9	75	Local	By Road
Methyl Methacrylate	Liquid	Drums	2.9	2.9	75	Local	By Road
Butyl Acrylate Monomer	Liquid	Drums	2.9	2.9	75	Local	By Road
N-butyl Methacrylate	Liquid	Drums	2.9	2.9	75	Local	By Road
2-Hydroxyethyl Methacrylate	Liquid	Drums	2.9	2.9	75	Local	By Road
Ethyl Acrylate	Liquid	Drums	2.9	2.9	75	Local	By Road
Methacrylates	Liquid	Drums	2.9	2.9	75	Local	By Road
Styrene	Liquid	Tank	25	25	173	Local	By Road
Xylene	Liquid	Tank	50	50	170.13	Local	By Road
Toluene	Liquid	Tank	25	25	170.13	Local	By Road
Cellosolve Acetate	Liquid	Tank	30	30	80	Local	By Road
Butyl Acetate	Liquid	Tank	30	30	80	Local	By Road
Solvent Naphtha	Liquid	Tank	25	25	80	Local	By Road
Initiators	Liquid	Carboy	0.5	0.5	5	Local	By Road
Pthalic Anhydride	Solid	Bags	20.5	20.5	354.75	Local	By Road
Isophthalic acid	Solid	Bags	10	10	128.75	Local	By Road
Poly Acid	Liquid	Drums	13.5	13.5	191.75	Local	By Road
Mono Glycol	Liquid	Drums	10	10	66.66	Local	By Road
Di Glycol	Liquid	Drums	10	10	66.66	Local	By Road
Poly Glycol	Liquid	Drums	10	10	66.66	Local	By Road
Benzoic Acid	Solid	Bags	2	2	42	Local	By Road
Solvent CIX	Liquid	Tank	30	30	98	Local	By Road
Butyl Cellosolve	Liquid	Tank	30	30	98	Local	By Road
Butanol	Liquid	Tank	30	30	56.66	Local	By Road
Octanol	Liquid	Tank	30	30	56.66	Local	By Road
Methanol	Liquid	Tank	25	25	56.66	Local	By Road
Melamine	Solid	Bags	2.5	2.5	33	Local	By Road
Urea	Solid	Bags	2.5	2.5	33	Local	By Road


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Epoxy Resins	Liquid	Drums	40	40	430	Local	By Road
Mineral Terpentine Oil	Liquid	Tank	50	50	90.13	Local	By Road
Benzyl Alcohol	Liquid	Drums	1	1	170	Local	By Road
C12-C14 / Ortho Cresol	Liquid	Drums	1	1	73.33	Local	By Road
Monoethylene Glycol	Liquid	Drums	8	8	180	Local	By Road
Diethylene Glycol	Liquid	Drums	8	8	180	Local	By Road
Terephthalic Acid	Liquid	Drums	8	8	180	Local	By Road
Adepic Acid	Liquid	Drums	8	8	180	Local	By Road
Methylene diphenyl diisocyanate	Liquid	Drums	1.33	1.33	30	Local	By Road
Toluene diisocyanate	Liquid	Drums	1.33	1.33	30	Local	By Road
Isophorone diisocyanate	Liquid	Drums	1.33	1.33	30	Local	By Road
Chain extender & cross linkers (Polypropylene Glycol)	Liquid	Drums	2	2	75	Local	By Road
Chain extender & cross linkers (1:4 Butanediol)	Liquid	Drums	2	2	75	Local	By Road
Chain extender & cross linkers (Neopentyl glycol)	Liquid	Drums	2	2	75	Local	By Road
Ethyl Acetate (Thinner)	Liquid	Tank	30	30	263	Local	By Road
Catalyst (TPP / TMP)	Liquid	Carboy	1	1	23	Local	By Road
Glycerin/ Penta Polyol	Liquid	Drum	5	5	115	Local	By Road
Vegetable Oil	Liquid	Drum	10	10	117	Local	By Road
C9 Solvent	Liquid	Tank	25	25	46.8	Local	By Road
White Spirit	Liquid	Tank	25	25	46.8	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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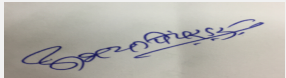
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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	1667.5 sq.m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) Category : B-1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-02-2018

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
5. Type of Project	Not Applicable	5 (f) Category B-1
10. Correspondence Name	Unit No. 203	Unit No. 230 & 231
10. Room Number	Unit No. 203	Unit No. 230 & 231
38. Amount of treated effluent recycled	It will be ZLD Unit	The effluent of 9.9 CMD will be send to CETP as per the valid CTO. The effluent from the expansion activity will be recycled within the plant totally


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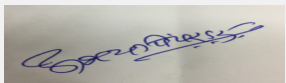

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

38. Amount of water send to the CETP	It will be ZLD Unit	The effluent of 9.9 CMD will be send to CETP as per the valid CTO. The effluent from the expansion activity will be recycled within the plant totally
38. Membership of CETP	It will be ZLD Unit	The effluent of 9.9 CMD will be send to CETP as per the valid CTO. The effluent from the expansion activity will be recycled within the plant totally
38. Note on ETP Technology to be used	To achieve complete ZLD	To achieve ZLD for expansion project only
52. Storage of chemicals	The quantities of Raw Materials to be changed	The quantities of Raw Materials to be reduced

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

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 153rd (Day-1) Meeting Date: June 30, 2018	Page 13 of 83	 Dr. Umakant Dangat (Chairman SEAC-I)
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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.

Based on the presentation made by PP; committee decided to approve the TOR in their 149th meeting held on 04.04.2018 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.


1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles and memorandum of association.
2. PP to submit lay out plan showing entry/exit gates, internal roads with minimum width of six meters and turning radius of nine meters, location of pollution control equipment, parking areas, 33% green belt within the premises, solid and hazardous waste storage areas, rain water harvesting etc.
3. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.
4. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
5. PP to carry out HAZOP and Risk Assessment study and submit a Disaster Management Plan.
6. PP to submit details of the waste material management plan in the EIA report.
7. PP to submit details of the maximum storage of raw material against the production quantity and make changes in the product manufacturing quantity if storage is found inadequate on the site.
8. PP to submit process engineering design details like reactors and other process equipment design along with proposed process controls to ensure quality of the products.
9. PP to submit design details of the ETP to achieve Zero Liquid Discharge.
10. PP to submit CSR plan to be prepared in consultation with the District Authorities along with its implementation schedule. PP to maintain separate account for CSR funds.
11. PP to submit an undertaking for not having any eco sensitive area within the range of 5 KM from the proposed project site.

Now PP submitted EIA/EMP reprot.


**Abhay Pimparkar (Secretary
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**Dr. Umakant Dangat
(Chairman SEAC-I)**

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.

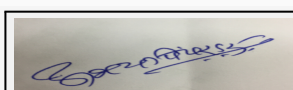
Specific Conditions by SEAC:

- 1) PP to submit documents related to collection of baseline data to establish the data was collected as per OM issued by MoEF&CC dated 29.08.2017
- 2) PP to ensure to complete Zero Liquid Discharge ETP within one year of the commissioning. PP to submit undertaking in this regard.
- 3) PP to submit revised life cycle analysis report mentioning sustainability index and proposed mitigation measures for environmental protection..

FINAL RECOMMENDATION

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

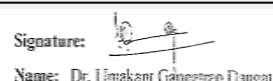
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**Abhay Pimparkar (Secretary
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**Dr. Umakant Dangat
(Chairman SEAC-I)**

153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd (Day-1) Meeting Date June 30, 2018

Subject: Environment Clearance for Uma Barrage Project

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	Uma Barrage Project
2.Type of institution	Government
3.Name of Project Proponent	Water Resource Department
4.Name of Consultant	NEERI Nagpur
5.Type of project	Irrigation Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Across River Uma Near Village Borta
9.Taluka	Murtizapur
10.Village	Borta
11.Area of the project	Other
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (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	2372300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
2	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops Not applicable


Abhay Pimparkar (Secretary SEAC-1)

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Dr. Umakant Dangat (Chairman SEAC-1)


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))	5.00 M
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29. Existing structure (s) if any	Not applicable
30. Details of the demolition with disposal (If applicable)	Not applicable

31. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Dam / Barrage	0.00	20.79 McuM	20.79 MCuM


32. Total Water Requirement

Dry season:	Source of water	River
	Fresh water (CMD):	51
	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


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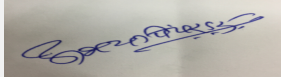
Wet season:	Source of water	River
	Fresh water (CMD):	51
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	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
Water Requirement									
Fresh water requirement	51	51	51	0	0	0	0	0	0

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


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35.Storm water drainage	Natural water drainage pattern:	Not Applicable
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable

Sewage and Waste water	Sewage generation in KLD:	Not applicable
	STP technology:	Not applicable
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not applicable
	Disposal of the construction waste debris:	Not applicable

Waste generation in the operation Phase:	Dry waste:	Not applicable
	Wet waste:	Not applicable
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable


Mode of Disposal of waste:	Dry waste:	Not applicable
	Wet waste:	Not applicable
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable

Area requirement:	Location(s):	Not applicable
	Area for the storage of waste & other material:	Not applicable
	Area for machinery:	Not applicable

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


37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			
Capacity of the ETP:		Not applicable			
Amount of treated effluent recycled :		Not applicable			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Not applicable			
Disposal of the ETP sludge		Not applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	Not applicable	Not applicable

41.Source of Fuel

Fuel Station

42.Mode of Transportation of fuel to site

Utility Vehicle

43.Green Belt Development

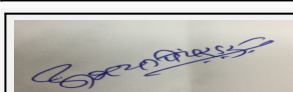
Total RG area :	4.18 Ha
No of trees to be cut :	96
Number of trees to be planted :	200
List of proposed native trees :	Azadirachta Indica
Timeline for completion of plantation :	2020

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	50	Medicinal Plant
2	Albizia lebbeck	Siras	130	Ecological
3	Mangifera indica	Aam	20	Fruit

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	Not applicable	Not applicable	Not applicable

47. Energy

Power requirement:	Source of power supply :	Diesel Gnerator Set
	During Construction Phase: (Demand Load)	Not applicable
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	Not applicable
	During Operation phase (Demand load):	Not applicable
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	Not applicable
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48. Energy saving by non-conventional method:

Not applicable

49. Detail calculations & % of saving:

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

50. Details of pollution control Systems

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

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


51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not applicable	Not applicable	Rs. 10.00


b) Operation Phase (with Break-up):

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

1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)							
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	Not applicable					
Parking details:	Number and area of basement:	Not applicable					
	Number and area of podia:	Not applicable					
	Total Parking area:	Not applicable					
	Area per car:	Not applicable					
	Area per car:	Not applicable					
	Number of 2-Wheelers as approved by competent authority:	Not applicable					
	Number of 4-Wheelers as approved by competent authority:	Not applicable					
	Public Transport:	Not applicable					
	Width of all Internal roads (m):	Not applicable					
	CRZ/ RRZ clearance obtain, if any:	Not applicable					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable					
	Category as per schedule of EIA Notification sheet	Not applicable					
	Court cases pending if any	Not applicable					


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	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted their application for prior Environment Clearance. Earlier SEAC considered the proposal in their 116th meeting and identified a violation. Environment Department conducted hearing.

SEAC deliberated the issue with PP at length. SEAC also went through the Notification dated 16.03.2017 issued by MoEF&CC regarding procedure to be followed in case of violation cases. It mentions as below'

Para 13(4)

"The cases of violation will be appraised by respective sector Expert Appraisal Committees constituted under subsection (3) of Section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can be run sustainably under compliance of environmental norms with adequate environmental safeguards; and in case, where the finding of the Expert Appraisal Committee is negative, closure of the project will be recommended along with other actions under the law."


Para 14

"The projects or activities which are in violation as on date of this notification only will be eligible to apply for environmental clearance under this notification and the project proponents can apply for environmental clearance under this notification only within six months from the date of this notification."

In view of above, SEAC advised PP to apply to the MoEF as per Notification dated 16.03.2017 and decided to refer the proposal to SEIAA.


Now as per Notification issued by MoEF&CC dated 08.03.2018 PP requested to consider the proposal in SEAC.

DECISION OF SEAC


Abhay Pimparkar (Secretary
SEAC-I)

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

The chronology of the project is as below,

1. PP started work on 16.05.2009
2. PP submitted their application for prior Environment Clearance on 24.07.2008
3. SEAC granted ToR on 07.03.2009
4. Public Hearing was conducted on 06.10.2012
5. PP submitted EIA/EMP report on 10.02.2015
6. PP made presentation before SEAC on 15.12.2015 wherein violation was detected.
7. PP received stop work on 23.01.2017

The provisions of Notification dated 08.03.2018 are as below,

"(4) The cases of violations will be appraised by the Expert Appraisal Committee at the Central level or State or Union territory level Expert Appraisal Committee constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can run sustainably under compliance of environmental norms with adequate environmental safeguards, and in case, where the findings of Expert Appraisal Committee for projects under category A or State or Union territory level Expert Appraisal Committee for projects under category B is negative, closure of the project will be recommended along with other actions under the law.";

"(5) In case, where the findings of the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee on point at sub-paragraph (4) above are affirmative, the projects will be granted the appropriate Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan and the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee, will prescribe specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants, and the collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or a environmental laboratory accredited by the National Accreditation Board for Testing and Calibration Laboratories, or a laboratory of the Council of Scientific and Industrial Research institution working in the field of environment.";

During deliberations PP requested as below,

As EIA and EMP as well as public hearing report are already prepared, it is submitted that SEAC-1 may kindly consider not discarding these reports because of following reasons,

- (a) The works of project along the dam line is yet to be completed, and no water storage has been created. As such there is no change in river flow pattern, and hence no change in the baseline data has taken place since preparation of EIA and EMP.
- (b) The land use pattern has not been altered by the works of the project carried out so far.
- (c) The project is coming up in the area of the State which is the most backward in so far as irrigation facilities are concerned. This area also records high incidence of farmer suicides.
- (d) Public money to the tune of Rs. 262.00 Cr stands invested on the project.

Preparing EIA and EMP afresh would inevitably delay the project further by at least one more year, which would be against larger public interest.

It is requested that the SEAC-1 may kindly prescribe specific ToR for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and direct recasting EIA & EMP Reports (including Public Hearing Report) submitted earlier, by incorporating in the ecological damage, remediation plan etc. as a separate chapter, as contemplated in the Notification dated 08.03.2018.

In view of above request from PP (this being a Government Project), SEAC in larger public interest decided to grant additional and specific ToR points for making necessary changes in the EIA/EMP report as per Notification dated 08.03.2018.

After detailed discussion with the PP and their accredited consultant SEAC is of the opinion that no fresh public hearing is required as it was already conducted.

With this view, SEAC refers the proposal to SEIAA for approval as above and/or further guidelines in the matter.

Specific Conditions by SEAC:

- 1) 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.)
- 2) PP to submit details of Forest and Wild Life ecocensitive zones if any in the study area and within the range of 5 km.
- 3) 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.
- 4) 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.)
- 5) 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.
- 6) 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.
- 7) 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.
- 8) PP to submit their plan to utilize CER (Corporate Environmental Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

SEAC-I decided to refer the proposal to SEIAA/Environment Department for verification of above mentioned violation.



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

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**Dr. Umakant Dangat
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153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

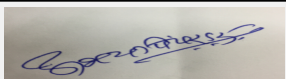
SEAC Meeting number: 153rd (Day-1) Meeting Date June 30, 2018

Subject: Environment Clearance for Proposed 88.0 TPM Pigments & Dye Intermediates Production Plant at Plot No.: F - 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra by Thakkar Organics Pvt. Ltd.

Is a Violation Case: No


1.Name of Project	Proposed 88.0 TPM Pigments & Dye Intermediates Production Plant at Plot No.: F - 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra by Thakkar Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amit J. Thakkar /Thakkar Organics Pvt. Ltd.
4.Name of Consultant	Mr. H.K. Desai / Enviro Analysts and Engineers Private Limited.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No.: F - 19, MIDC Badlapur
9.Taluka	Badlapur, Thane
10.Village	Badlapur
Correspondence Name:	Mr. Amit J Thakkar
Room Number:	Plot No.: F - 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	NA
City:	Thane
11.Area of the project	MIDC Badlapur
12.IOD/IOA/Concession/Plan Approval Number	MIDC Badlapur Approval
	IOD/IOA/Concession/Plan Approval Number: EE/AMB/D-32877/of 2015
	Approved Built-up Area: 1408.38
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.)	1449.0 sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 1408.38
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	40308000

22.Number of buildings & its configuration


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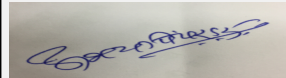

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density 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))	8 m wide MIDC road		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9 m		
29.Existing structure (s) if any	Not applicable		
30.Details of the demolition with disposal (If applicable)	Not applicable		

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Fast Red GL Base (Meta Nitro Para Toluidine)	0	10	10
2	Fast Boredeaux GP Base (Meta Nitro Para Anisidine)	0	10	10
3	3,4 Diamino Toluene/122	0	3	3
4	5 Amino 6 Methyl Benzimidazolone	0	5	5
5	2-Amino-N-cyclohexyl-N-methylbenzenesulfonamide	0	5	5
6	4 Amino-N-methylphthalimide	0	5	5
7	2,5-Dichloro Para Phenylene Diamine	0	5	5
8	2,5-Dimethyl Para Phenylene Diamine	0	5	5
9	3,4 Diamino Anisole	0	2	2
10	2-Heptanol	0	15	15
11	Meta Phenoxy Benzyl Alcohol	0	10	10
12	Dilute Acetic Acid (approx. 15% by Product)	0	3	3
13	Sodium Acetate (By Product)	0	10	10


32.Total Water Requirement

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Dry season:	Source of water	MIDC Badlapur
	Fresh water (CMD):	30.9
	Recycled water - Flushing (CMD):	1.1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	63.8
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
Wet season:	Source of water	MIDC Badlapur
	Fresh water (CMD):	28.4
	Recycled water - Flushing (CMD):	1.1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	61.3
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
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	1.5	1.5	0	0.3	0.3	0	1.2	1.2
Industrial Process	0	28.0	28.0	0	4.5	4.5	0	23.5	23.5
Cooling tower & thermopack	0	29.8	29.8	0	25.1	25.1	0	4.7	4.7


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Cooling tower & thermopack	0	29.8	29.8	0	25.1	25.1	0	4.7	4.7
Industrial Process	0	0.6	0.6	0	0.1	0.1	0	0.5	0.5
Industrial Process	0	1.4	1.4	0	0.4	0.4	0	1.0	1.0

34. Rain Water Harvesting (RWH)	Level of the Ground water table:	2.3 m
	Size and no of RWH tank(s) and Quantity:	1 nos. of 12 KL
	Location of the RWH tank(s):	underground
	Quantity of recharge pits:	Not proposed
	Size of recharge pits :	Not proposed
	Budgetary allocation (Capital cost) :	1,50,000
	Budgetary allocation (O & M cost) :	20,000 /Annum
Details of UGT tanks if any :	1. One Number of UGT for RWH. Capacity of the Tank would be 12 KL. 2. One Number of UGT for Fire Water Storage. Capacity of the Tank will be 100 KL.	

35. Storm water drainage	Natural water drainage pattern:	East from the project site
	Quantity of storm water:	34.34m ³ /d
	Size of SWD:	305 mm (w) x 150 mm (d)


Sewage and Waste water	Sewage generation in KLD:	1.2
	STP technology:	Sewage Generated will be collected in septic tank first and then the overflow of the septic tank will be fed to the aeration tank of the effluent treatment plant of 35 KLD.
	Capacity of STP (CMD):	Not proposed
	Location & area of the STP:	Not proposed
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36. Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Approx. 452 nos. of empty cement bags, 0.1508 MT of steel scrap, 0.3016 MT of aggregate waste, 38 sq.m of broken tiles and 22 nos of Empty paint cans will be generated
	Disposal of the construction waste debris:	Cement bags, steel scrap and paint cans will be sold to recycler whereas aggregates and broken tiles will be reused within site for internal road levelling and terrace china mosaic.
Waste generation in the operation Phase:	Dry waste:	Non Hazardous Solid Wastes from this factory will be from office and plant like waste paper, corrugated box, broken glass / plastic noncontaminated.
	Wet waste:	Domestic waste & garden leaves
	Hazardous waste:	4.26 MT/month of process residues and wastes , 680 kg/month of spent carbon , 45 nos./month of discarded containers, 1000 kg/month of ETP sludge will be generated
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Fly ash 300 kg/d
Mode of Disposal of waste:	Dry waste:	Sweepers / workers will collect such wastes separately (Biodegradable and Non biodegradable) from the source and would store in solid waste collection enclosure (to be located suitably within the project site). These Recyclable Non-biodegradable solid wastes will be sold to prospective buyers.
	Wet waste:	Biodegradable solid waste will be used for composting within the plant premises.
	Hazardous waste:	Process residues & wastes, Spent carbon and ETP sludge will be disposed to CHWTDF Taloja and Discarded containers will be sold to authorised recyclers after proper decontamination.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Fly Ash Will be given to Brick Manufacturers.
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

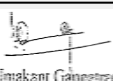
37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	Chemical Oxygen demand	ppm	5500-6000	200-150	less than 250
2	Biochemical Oxygen Demand	ppm	600-750	Less than 30	less than 30
3	Total Dissolved Solids	ppm	1800-2000	less than 500	less than 2100
4	Total Suspended Solids	ppm	200-300	Nil	less than 100
5	pH	-	5.5-8	6.5-7	5.5-9


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6	Oil and Grease	ppm	50-60	less than 10	less than 10
Amount of effluent generation (CMD):		31.0			
Capacity of the ETP:		35			
Amount of treated effluent recycled :		26.8			
Amount of water send to the CETP:		NIL			
Membership of CETP (if require):		CETP BADLAPUR FOR 24 KLD			
Note on ETP technology to be used		Plant Capacity 35 KLD with Zero liquid Discharge Containing process units {Neturilisation system > Advance oxidation system> Activated sludge process (primary, secondary & tertiary Treatment) with MBR technology > RO system > MEE (2 stage)}			
Disposal of the ETP sludge		CHWTSDF, Taloja.			

38.Hazardous Waste Details


Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process Residues & wastes	28.1	Mt / Month	0	4.26	4.26	Will be disposed to CHWTSDF, Taloja.
2	Spent Carbon	28.2	kg / Month	0	680	680	Will be disposed to CHWTSDF, Taloja.
3	Discarded Containers	33.3	Nos. / Month	0	45	45	Will be sold to authorized recycler after proper decontamination.
4	ETP Sludge	34.3	kg / Month	0	1000	1000	Will be disposed to CHWTSDF, Taloja.

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler	Coal 104 kg/hr	1	30	0.55	90
2	DG set	HSD 12 Kg/hr	1	18.4	0.2	40

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	0	2.5 TPD	2.5TPD
2	HSD	0	750 l/month	750 l/month
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		Road transport		


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43.Green Belt Development	Total RG area :	489.91 m ²
	No of trees to be cut :	0
	Number of trees to be planted :	26
	List of proposed native trees :	Azadirachta indica, Pithecolobium dulce, Pongamia pinnata, Adenothera pavonina, Ailanthus excelsa, Albezia lebeck, Thespesia populnea, Barringtonia racemosa, Bridelia squamosa, Peltophorum pterocarpum
	Timeline for completion of plantation :	Before operation of plant

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	6	Medicinal
2	Pithecolobium dulce	Vilayati imli	2	medicinal
3	Pongamia pinnata	Karanj	2	pollution tollerant
4	Adenothera pavonina	Ratnagunj	4	medicinal
5	Ailanthus excelsa	Maharukh	2	pollution tollerant
6	Albezia lebeck	Shirish	2	evergreen
7	Thespesia populnea	Ranbhendi	2	evergreen
8	Barringtonia racemosa	Samudraphal	2	medicinal
9	Bridelia squamosa	Aasan	2	evergreen
10	Peltophorum pterocarpum	Sonmohor	2	evergreen

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 m ²
1	NA	NA	NA

47.Energy


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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	200 kVA
	Transformer:	NA
	DG set as Power back-up during operation phase:	125 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

? Energy efficient LED will be used which have higher output. 100% of external landscaped street lights will be LED and on solar stand alone.
 ? Energy efficient LED will be used for internal lights
 ? Pumps and motors with premium efficiency

49. Detail calculations & % of saving:


Serial Number	Energy Conservation Measures	Saving %
1	internal Lighting load on LED lights	28.63 KWH/day
2	External Lighting load on LED and solar stand alone	58.68 KWH/day
3	Pumps and motors with premium efficiency (chilling unit)	111.72 KWH/day
4	umps and motors with premium efficiency (water pump)	9.6 KWH/day

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler emission	NA	Double Cyclone Separator and Bag Filter
Process emission	NA	Scrubber
Domestic and industrial waste Water	NA	ETP with tertiary treatment

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

51. Environmental Management plan Budgetary Allocation


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a) Construction phase (with Break-up):			
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Monitoring	PM, SO ₂ , NO _x , CO	1.25
2	Noise Monitoring	Daytime and Nighttime dB(A)	0.5
3	EHS	Worker Health checkup	1.0

b) Operation Phase (with Break-up):				
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Bag filter and dual cyclone separator	14	2.1
2	Water Pollution Control	ETP	95.75	19.15
3	Environment Monitoring and Management	Ambient monitoring	20	1
4	Occupational Health	Worker Health checkup	2.0	0.5
5	Green Belt	Tree plantation	2.0	0.6
6	Solid Waste Management	Hazardous waste management and disposal	10.0	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
Para toluidine	solid	hazardous storage	10	10	10	Local	road transport
Para anisidine	solid	hazardous storage	10	10	10	Local	road transport
Meta nitro para toluidine	solid	hazardous storage	5	5	5	Local	road transport
5 nitro 6 methyl benzimidazolone	solid	hazardous storage	5	5	5	Local	road transport
2- Nitro N- cyclohexyl - N-methyl benzene sulfonamide	solid	hazardous storage	5	5	5	Local	road transport
4 nitro -N-methyl phthalimide	solid	hazardous storage	5	5	5	Local	road transport
2,5 dichloro para nitro aniline	solid	hazardous storage	10	10	10	Local	road transport
2,5 dimethyl para nitro aniline	solid	hazardous storage	5	5	5	Local	road transport
3 nitro 4 amino anisole	solid	Hazardous storage area	5	5	5	Local	road transport
2 heptanone	liquid	Hazardous storage area	5	5	5	Local	road transport


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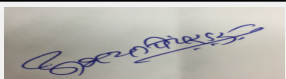
Meta phenoxy benzaldehyde	liquid	Hazardous storage area	5	5	5	Local	road transport
Ethyl acetate	liquid	tank farm	10	10	10	Local	road transport
Di methyl acetamide	liquid	Hazardous storage area	5	5	5	Local	road transport
Hydrogen	gas	hydrogen shed	1060 m3	1060 m3	1060 m3	Local	road transport
Acetic acid	liquid	tank farm	16	16	16	Local	road transport
Acetic anhydride	liquid	Hazardous storage area	5	5	5	Local	road transport
Toluene	liquid	Hazardous storage area	5	5	5	Local	road transport
Nitric Acid conc.	liquid	tank farm	10	10	10	Local	road transport
caustic soda flakes	solid	Hazardous storage area	10	10	10	Local	road transport
carbon catalyst	liquid	Hazardous storage area	0.02	0.02	0.02	Local	road transport

52.Any Other Information

No Information Available


53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	145.27 m ²
	Area per car:	28
	Area per car:	28
	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):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	30 km


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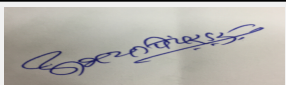

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	Category as per schedule of EIA Notification sheet	5f
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes ZLD for effluent treatment. 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. No effluent will be discharged to the CETP.
Drainage pattern of the project	Not Applicable
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site. PP to obtain permission from CGWA if PP propose to use ground water as per Public Notice issued by Ministry of Water Resources on 29.06.2018.
Solid Waste Management	PP proposes disposal of waste material at CHWTSDF and sale to authorized vendor.
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 200 KVA, which will be supplied by MSEDCL. PP also proposes to have 125 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP proposes to provide 145.27 Sq.m. area for parking along with 6 meter wide roads with 9 meter turning radius.
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP carried out HAZP/Risk Assessment and proposes adequate steps to handle an emergency.
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.2.75 Lakh during construction phase and 143.75 Lakh as capital cost and Rs. 25.35 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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PP was granted ToR for the proposed project in 82nd meeting of SEAC-1 held on 3rd to 5th July, 2014 wherein PP was asked to include following additional ToR points in the EIA/EMP report.

1. PP to carry out treatability studies for treatment of industrial effluent.
2. Location and details of hazardous waste storage.
3. Details of boiler ash disposal.
4. PP to provide STP for treatment of domestic effluent.
5. Submit consent from CETP for acceptance of the additional load.
6. Details of storm water management.
7. HAZOP and quantitative risk assessment studies pertaining to solvents and hazardous chemicals.

Fire load/ fire water calculations.

Committee also noted below remarks

" As soon as the draft EIA report is prepared, the same may be submitted to the Maharashtra Pollution Control Board (MPCB) for conducting Public Hearing as per EIA Notification, 2006 and MoEF&CC PM No. J-11013/36/2014 dated 16.05.2014."

PP submitted EIA report in the 126th meeting of SEAC-1 held on 29th & 30th April, 2016, where in committee noted following observations,

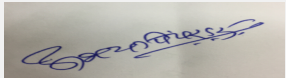
1. At the outset committee was concerned about the limited area in which project was proposed with its adverse consequences on parking and disaster management among other avoidable contingencies. In particular it was observed that there was no space for vehicles to turn within the premises and parking has to be managed on the MIDC road.
2. From disaster management view the process being carried out and chemicals handled are of hazardous nature, and therefore the limited area of the site may give rise to risky situation. Secondary consequence analysis pertaining to other organic industries in the vicinity also impacts the nature of hazard management.
3. EIA report itself suffers from various infirmities. Solvent Di Chloro Methane needs to be substituted because it is neither a green solvent nor does the proposed process prove that the process will not result in the solvent being discharged into atmosphere.
4. The boiler will be shared with the sister concern, therefore issue of liability and emission management remains in the hands of sister concern on which this committee does not have any control.
5. It is possible to conserve water from MIDC by process reengineering and also by reducing outflow to the CETP by judicious recycling. There are mistakes in the manufacturing process details like names of raw materials and products need to be corrected and material balance needs to be reworked.
6. The baseline data studies have been carried out satisfactorily. The committee however observed that ambient air quality levels at Rameshwarwadi were quite high at 90 Microgram/m³ maximum.
7. All above factors indicated that the EIA Report needs to be reworked/ revised to address the issues mentioned above.

The proposal was deferred.

Now PP submitted the EIA report.


The proposal was considered in 151st meeting held on 23.05.2018 wherein proposal was deferred till PP submits compliance of following points,

1. PP to submit layout plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas, 33% green belt, rain water harvesting etc.
2. 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.
3. At many places in the baseline data the maximum levels are exceeded than the standard limits but PP has not indicated reasons and mitigation measures; PP to include the same in EIA report.


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DECISION OF SEAC


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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

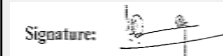
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(Chairman SEAC-I)**

153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 153rd (Day-1) Meeting Date June 30, 2018

Subject: Environment Clearance for Proposed Common Bio-medical Waste Treatment Facility (CBWTF)

Is a Violation Case: No

1.Name of Project	Proposed Common Bio-medical Waste Treatment Facility (CBWTF)- Incinerator (Rotary Kiln): 250 Kg/ hr Autoclave: 500 Liters/ batch Shredder: 100 Kg/hr Effluent Treatment Plant (ETP): 10 KLD
2.Type of institution	Private
3.Name of Project Proponent	M/s. Dashin Aseptics
4.Name of Consultant	SMS Envocare Ltd Pune
5.Type of project	Other
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Khasra No. 395/3/A
9.Taluka	Bhandara
10.Village	Village Chitapur (Dhargaon)
Correspondence Name:	Mr. Ashish Bansod
Room Number:	Not Applicable
Floor:	Not Applicable
Building Name:	Not Applicable
Road/Street Name:	204, AJINKYA SAI APPT
Locality:	NEAR DASRA MAIDAN, SHASTRI NAGAR
City:	BHANDARA 441904, District Bhandara, MH
11.Area of the project	Other Area
12.IOD/IOA/Concession/Plan Approval Number	Plant Layout shall be approved by Concerned Department
	IOD/IOA/Concession/Plan Approval Number: Plant Layout shall be approved by Concerned Department
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work has started at site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Required NOC shall be secured
15.Total Plot Area (sq. m.)	4046.86 (1 Acre)
16.Deductions	Not applicable
17.Net Plot area	4046.86 (1 Acre)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	0
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0
21.Estimated cost of the project	21500000

22.Number of buildings & its configuration


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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	1	G+1	10-12	
2				
23.Number of tenants and shops	NA as this is not a commercial project			
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))	Minimum 6 meter width has been kept in internal road of the facility for proper movement of vehicles			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 7.5 meter width of turning radius has been kept for proper movement of vehicles			
29.Existing structure (s) if any	Not applicable			
30.Details of the demolition with disposal (If applicable)	No demolition is envisaged			
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable
32.Total Water Requirement				



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Dry season:	Source of water	Bore well/ Local body
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Shall be used for plantation
Wet season:	Source of water	Bore well/ Local body
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Shall be used for plantation
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
Industrial Process	NA	1200 ltr	1200 ltr	NA	800 Lit	800 Lit	NA	400 ltr	400 ltr
Industrial Process	NA	800 ltr	800 ltr	NA	120 Lit	120 Lit	NA	680 ltr	680 ltr
Industrial Process	NA	1000 ltr	1000 ltr	NA	NA	NA	NA	900 ltr	900 ltr
Industrial Process	NA	100 ltr	100 ltr	NA	NA	NA	NA	0 ltr	0 ltr


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Gardening	NA	500 ltr	500 ltr	NA	NA	NA	NA	0 ltr	0 ltr
Domestic	NA	1400 ltr	1400 ltr	NA	100 Lit	100 Lit	NA	1300 ltr	1300 ltr
34.Rain Water Harvesting (RWH)									
		Level of the Ground water table:	1.80 to 18.0 m						
		Size and no of RWH tank(s) and Quantity:	Since it is a biomedical waste management site, rain water harvesting at site is not proposed.						
		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 :	NA						
35.Storm water drainage									
		Natural water drainage pattern:	From NE direction to SW direction						
		Quantity of storm water:	From NE direction to SW direction						
		Size of SWD:	From NE direction to SW direction						
Sewage and Waste water									
		Sewage generation in KLD:	0.88						
		STP technology:	Shall be treated in ETP						
		Capacity of STP (CMD):	NA						
		Location & area of the STP:	NA						
		Budgetary allocation (Capital cost):	Included in capital cost of project						
		Budgetary allocation (O & M cost):	Included in capital cost of project						
36.Solid waste Management									
Waste generation in the Pre Construction and Construction phase:		Waste generation:	Approx. 150 kg of domestic waste will be generated during construction phase. Top soil will be generated during clearing of the land which shall be stored separately. The same shall be used for plantation. Construction waste shall also be generated from construction activities.						
		Disposal of the construction waste debris:	Domestic solid waste shall be stored Separately. The same shall be managed as per Municipal Solid Waste management Rule, 2016 and as per directive of MPCB. Construction waste shall be managed as per Construction and Demolition Waste management Rule, 2017.						
Waste generation in the operation Phase:		Dry waste:	Approx. 30 kg of Dry waste shall be generated.						
		Wet waste:	Approx. 30 kg of wet waste shall be generated.						
		Hazardous waste:	70-90 kg/day of Incineration Ash						
		Biomedical waste (If applicable):	Not applicable as this is a CBWTF Plant which shall treat the BMW of Bhandara, Gondia districts and nearby area.						
		STP Sludge (Dry sludge):	Not applicable						
		Others if any:	Not applicable						


Mode of Disposal of waste:	Dry waste:	Domestic solid waste shall be stored Separately. The same shall be managed as per Municipal Solid Waste management Rule, 2016 and as per directive of MPCB
	Wet waste:	Wet waste will be stored and shall manage by composting. Composted material shall be used as manure for plantation work.
	Hazardous waste:	All Haz. Waste shall be stored separately and shall be strictly sent to CHWTSDF as per Hazardous and Other Waste (Management & Trans-Boundary) Rules, 2016.
	Biomedical waste (If applicable):	All bio-medical waste shall be managed as per Bio-medical Waste Management Rule, 2016
	STP Sludge (Dry sludge):	ETP sludge shall be strictly sent to CHWTSDF
	Others if any:	Not applicable
Area requirement:	Location(s):	Within the plant towards North Direction
	Area for the storage of waste & other material:	Approx. 170 sq. m of area has been demarcated for storage of different type of waste generated from the treatment facility. These storage areas have separated based on the type of waste to be stored.
	Area for machinery:	Approximately 420 sq. m. area has been demarcated for Incinerator, Autoclave, shredder.
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Cost of the same is included in the total Capital cost of the plant.
	O & M cost:	Approx. 4-5 lakhs/ year

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	4.5 to 6.0	6.5 to 9.0	6.5 to 9.0
2	TSS	mg/litre	400 to 600	100	100
3	BOD	mg/litre	300 to 400	30	30
4	O&G	mg/litre	20 to 30	10	10
5	COD	mg/litre	800 to 1000	250	250
Amount of effluent generation (CMD):		3.2 (3280 Lit)			
Capacity of the ETP:		10 KLD			
Amount of treated effluent recycled :		1.5 CMD			
Amount of water send to the CETP:		Not applicable as total water will be recycled and reused by facility			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		The treatment of effluent generated from hospital will be done in three steps. Mainly know as Primary, Secondary and Tertiary treatment. These limits are applicable to those hospital which are either connected with sewers without terminal sewage treatment plant or not connected to public sewers, for discharge into public sewers with terminal facilities, the general standards as notified under the Environment (Protection) Act, 1986 shall be applicable. Primary Treatment: This is the first steps			
Disposal of the ETP sludge		ETP sludge shall be sent to CHWTSDF, Butibori Nagpur			


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	34.4	KG/day	NA	As per actual	As per actual	CHWTSDF


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2	Incineration Ash	BMW- cat No. 9	KG/day	NA	As per actual	As per actual	CHWTSDF
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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	Incineration	HSD	1	30	0.4	86
2	D.G. Set.	HSD	1	7.9	0.164	164

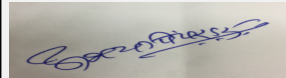
40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not Applicable	20-25 kg/hr	20-25 kg/hr
41.Source of Fuel		Local market		
42.Mode of Transportation of fuel to site		Local market by road transportation		

43.Green Belt Development	Total RG area :	Not applicable
	No of trees to be cut :	It shall be ensure not to remove tree of other vegetation. If very required, plant shall be removed scientifically so that can be replanted at another place
	Number of trees to be planted :	Proper plantation including Tree, Shrubs and small plants shall be planted at in and around the project site. Two tier plantations shall be developed. First tier will be developed by big tree species having minimum 10-12 m of height. Second tier will be developed by planting tree species having minimum 5-10 meter height with shrubs species. First tire will be close to the project boundary and second tire will be closed to the treatment unit. Approx. 400 Plant species (Tree-250 & Shrubs-150) will
	List of proposed native trees :	Alstonia scholaris, Albizia lebbeck, Azadirachta indica, Ficus religiosa, Melia azedarach, Mimusops elengi, Polyalthia longifolia, Terminalia arjuna, Azadirachta indica, Butea monosperma, Grevillea ptehdifolia, Tamarindus indica, Terminalia arjuna, Lagerstroemia flosreginae, Anthocephalus cadamba, Bauhinia purpurea, Cassia fistula, Cassia siamea, Melia azedarach, Michelia champaca, Pongamia pinnata,
	Timeline for completion of plantation :	Up to four year from construction period

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	Alstonia scholaris	Black Board tree	15	Sulphur Dioxide Absorbing species
2	Albizia lebbeck	Fry wood	15	Sulphur Dioxide Absorbing species
3	Azadirachta indica	Neem	40	Sulphur Dioxide Absorbing species & Reduce Noise Pollution
4	Ficus religiosa	Banyan Tree	15	Sulphur Dioxide Absorbing species
5	Melia azedarach	White Cedar	40	Sulphur Dioxide Absorbing species & Reduce Noise Pollution
6	Mimusops elengi	Spanish Cherry	10	Sulphur Dioxide Absorbing species
7	Polyalthia longifolia	Ashoka	50	Sulphur Dioxide Absorbing species
8	Terminalia arjuna	Arjuna Tree	70	Sulphur Dioxide Absorbing species & Reduce Noise Pollution


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9	Butea monosperma	Palash	20	Reduce Noise Pollution
10	Grevillea ptehdifolia	Silky grevillea	25	Reduce Noise Pollution
11	Tamarindus indica	Tamarind	10	Reduce Noise Pollution
12	Lagerstroemia flosreginae	Pride of India	20	Suspended Pollutant controlling Plant/Other Ornamental plant
13	Anthocephalus cadamba	Kadam	20	Suspended Pollutant controlling Plant/Other Ornamental plant
14	Bauhinia purpurea	Orchid Tree	10	Suspended Pollutant controlling Plant/Other Ornamental plant
15	Cassia fistula	Golden Shower tree	10	Suspended Pollutant controlling Plant/Other Ornamental plant
16	Cassia siamea	Kassod Tree	10	Suspended Pollutant controlling Plant/Other Ornamental plant
17	Michelia champaca	Orange champak	10	Suspended Pollutant controlling Plant/Other Ornamental plant
18	Pongamia pinnata	Indian beech	10	Suspended Pollutant controlling Plant/Other Ornamental plant

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	Shrubs species will be planted closed to the facility as per availability of land	Shrubs species will be planted closed to the facility as per availability of land	Shrubs species will be planted closed to the facility as per availability of land

47.Energy

Power requirement:	Source of power supply :	MSEDCL & DG Set
	During Construction Phase: (Demand Load)	50 kVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	80 kW
	Transformer:	100 kVA
	DG set as Power back-up during operation phase:	One DG set of 100 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable


48.Energy saving by non-conventional method:

Not applicable

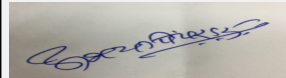

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49.Detail calculations & % of saving:				
Serial Number	Energy Conservation Measures	Saving %		
1	Not applicable	Not applicable		
50.Details of pollution control Systems				
Source	Existing pollution control system	Proposed to be installed		
Incineration & Autoclave and washing area	Not applicable	Effluent Treatment plant		
Incineration	Not applicable	Venturi scrubber , Quencher, and two Cyclonic Droplet Separators, Flooded scrubber with quenching arrangement, Stack with 30 height		
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not applicable		
	O & M cost:	Not applicable		
51.Environmental Management plan Budgetary Allocation				
a) Construction phase (with Break-up):				
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)	
1	Air pollution management	Regular water sprinkling	1.50	
2	Water Pollution management	Supply of drinking water & arrangement of modular toilets	1.0	
3	Solid & Haz. Waste Management	Storage and proper disposal of Solid waste, Haz. Waste, construction waste and other waste	2.0	
4	Occupational health & Safety	Providing of PPEs, fire safety arrangements, first-aid facility	2.0	
5	Greenbelt development	Regular plantation	1.0	
6	Others	Other as per requirement	1.0	
b) Operation Phase (with Break-up):				
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution management	Venturi scrubber, Flooded scrubber with quenching arrangement, Cyclonic Droplet Separators, Proper Stack & other as per requirement	5.0	3.0


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2	Water & Waste Water management	Effluent Treatment Plant, Other site specific management, Other as per requirement	5.0	4.0
3	Solid & Hazardous waste management	Disposal of Haz. Waste to CHWTSDF , Municipal Solid waste disposal , Other as per requirement	30.0	5.0
4	Green Belt development	Road site plantation, Plantation all around the facility and vacant area, Maintenance of plantation, Other as per requirement	15.0	5.0
5	Environmental Monitoring	Env. Monitoring during Construction & Operation phase	5.0	8.0
6	Miscellaneous	Other as per requirement	-	2.0

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
HSD	Liquid	Within plant	As per required	As per required	As per required	Local market	By road

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Not applicable
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Parking details:	Number and area of basement:	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Approx. 50 sq. m
	Area per car:	Parking area provided for Waste transportation vehicles. Personal vehicle shall be parked along the boundary of plant as per availability. At a time, only 5-6 two wheelers and minimum 1-2 4 wheelers may be present at the site.
	Area per car:	Parking area provided for Waste transportation vehicles. Personal vehicle shall be parked along the boundary of plant as per availability. At a time, only 5-6 two wheelers and minimum 1-2 4 wheelers may be present at the site.
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Koka Wildlife Sanctuary: Buffer zone of WLS is started at around 5 Km towards NE direction. The Core of WLS is situated at 10 Km NE direction from the project location.
	Category as per schedule of EIA Notification sheet	7 (da) as per EIA Notification, 2006 & as amended on 17th April, 2015.
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-01-2018
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS		
Environmental Impacts of the project	Not Applicable	
Water Budget	Not Applicable	
Waste Water Treatment	Not Applicable	


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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

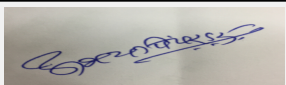
Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 7(da)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The proposal was considered in the 149th meeting held on 07.04.2018 wherein proposal was deferred for following reasons,

"PP has not obtained site selection approval from prescribed Authority and stack holders as mentioned in the Bio Medical Management Rules published on 28.03.2016. PP also not mentioned exact distance of the proposed project location from the Koka Wild Life Sanctuary so as to decide on the category of the project as per EIA Notification, 2006 amended from time to time."


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 carry out Public Consultation as per procedure stipulated in the EIA Notification,2006 and submit point wise compliance of the issues raised during Public Consultation.

Specific Conditions by SEAC:

- 1) PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,storm water drains ,33% green belt, rain water harvesting etc. along with area statement.
- 2) PP to submit details of proprietor along with relevant documents.
- 3) PP to submit details of methodology of collection, storage, treatment and disposal of biomedical waste.
- 4) PP to submit approval letter from the District Collector for change in land use.
- 5) PP to submit documents related to the sustained water supply.
- 6) 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.


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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153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd (Day-1) Meeting Date June 30, 2018

Subject: Environment Clearance for Expansion of existing sugar uit from 4000 to 8250 TCD and co-generation from 21 to 35 MW

Is a Violation Case: No

1.Name of Project	The Malegaon Sahakari Sakhar Karkhana Ltd
2.Type of institution	TOR
3.Name of Project Proponent	The Malegaon Sahakari Sakhar Karkhana Ltd
4.Name of Consultant	Vasantdada Sugar Inatitute Manjari (Bk.) Pune
5.Type of project	others
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Shivnagar
9.Taluka	Baramati
10.Village	Malegaon Bk
Correspondence Name:	Mr. V. M. Wable
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	Shivnagar, Malegaon (Bk.)
City:	Baramati
11.Area of the project	other area
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work has been initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	179 acres
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.): 0.0
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)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	955500000.00

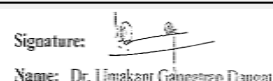
22.Number of buildings & its configuration



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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Not applicable	Not applicable	Not applicable	
2	Not applicable	Not applicable	Not applicable	
3	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))	6.0m			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable			
29.Existing structure (s) if any	Existing structure is as sugar process building along with co generation unit			
30.Details of the demolition with disposal (If applicable)	Not applicable			
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	14160.0	15045.0	29205.0
2	Bagasse	34320.0	36465.0	70785.0
3	Molasses	4800.0	5100.0	9900.0
4	Pressmud	4440.0	4718.0	9158.0
5	Electricity	15120.0 MW	10080.0 MW	25200.0 MW
32.Total Water Requirement				


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Dry season:	Source of water	Nira left bank canal
	Fresh water (CMD):	185.0 (Crushing Season)
	Recycled water - Flushing (CMD):	10728.0 (Crushing Season)
	Recycled water - Gardening (CMD):	1300.0
	Swimming pool make up (Cum):	not applicable
	Total Water Requirement (CMD) :	not applicable
	Fire fighting - Underground water tank(CMD):	34400.0
	Fire fighting - Overhead water tank(CMD):	not applicable
	Excess treated water	not applicable
Wet season:	Source of water	Nira left bank canal
	Fresh water (CMD):	536.0 (Non crushing season)
	Recycled water - Flushing (CMD):	1361.0 (Non crushing season)
	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):	34400.0
	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	84.0	4.0	88.0	16.8	0.8	17.6	67.20	3.2	70.40
Industrial Process	47.5	42.5	98.0	47.5	42.5	98.0	400.0	425.0	825.0
Cooling tower & thermopack	400.0	425.0	825.0	80.0	85.0	165.0	0.0	0.0	0.0

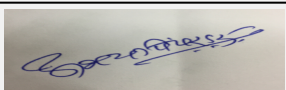

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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	18-20 m
	Size and no of RWH tank(s) and Quantity:	59.0 m X 72.0 m X 4.0 m
	Location of the RWH tank(s):	Near co-generation unit
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	10.0 Lakhs
	Budgetary allocation (O & M cost) :	1.5 Lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	Natural water drainage pattern:	by gravity
	Quantity of storm water:	40400 CM/Annum
	Size of SWD:	06 X 0.450 mm
Sewage and Waste water	Sewage generation in KLD:	70.40 KLD
	STP technology:	Septic tank followed by soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	In sugar complex
	Budgetary allocation (Capital cost):	5.00 Lakh
	Budgetary allocation (O & M cost):	0.50 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Top soil quantity will be minor
	Disposal of the construction waste debris:	Top soil will be used for gardening purpose
Waste generation in the operation Phase:	Dry waste:	Total ash generation 6170 TPA
	Wet waste:	ETP sludge: 97 TPA
	Hazardous waste:	Spent Oil: 20-25 KL/A
	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:	The generated ash will be mixed with ready compost and sell to brick manufacturer as per demand
	Wet waste:	ETP sludge will be utilized as manure
	Hazardous waste:	Spent oil will be mixed with bagasse and burnt into boiler
	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:	50 sq.mt
	Area for machinery:	250 sq.mt
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	20.0 Lakhs
	O & M cost:	5.0 Lakh

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	4 to 5.5	6.5 to 8.5	5.5 to 9.0
2	BOD	mg/lit	1500 - 3000	<30	30
3	COD	mg/lit	2500 - 6000	<250	250
4	TDS	mg/lit	1800 - 2500	<2100	2100
5	TSS	mg/lit	600 - 800	<100	100
Amount of effluent generation (CMD):		825 CMD			
Capacity of the ETP:		1000 CM			
Amount of treated effluent recycled :		825 CMD will be used for irrigation			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Activated sludge process (Anaerobic followed by aerobic system)			
Disposal of the ETP sludge		ETP sludge will be utilized as manure			

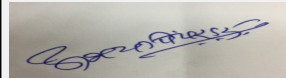

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	KL/A	10.0	15.0	20 - 25 KL/A	Mixed with bagasse and burnt into own boiler

39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler	Bagasse: 1675.0 TPD	1	76.0	4.1	140.0

40. Details of Fuel to be used

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Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse (During season)	812.0 TPD	850.0 TPD	1675.0 TPD
2	Bagasse (During off season)	211.0 TPD	141.0 TPD	352.0 TPD

41. Source of Fuel own sugar industry

42. Mode of Transportation of fuel to site NA

43.Green Belt Development	Total RG area :	Total greenbelt area: 17.72 acres
	No of trees to be cut :	NA
	Number of trees to be planted :	800 - 1000 nos
	List of proposed native trees :	Neem, babhul, karanj, wad, pimpal etc
	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	Azadiracta indica	Neem	100	Fly ash tolerant, tolerant of alkaline and saline soil, common in the area
2	Arecaceae	Palm	30	noise barrier
3	Pongamia pinnata	Karanj	50	ash tolerant, used for making biofuel
4	Tamarind indica	Chinch	60	Tolerant to acidic soil
5	Syzygium cumini	Jambhul	20	medicinal plant, common in region
6	Ficus religiosa	Pimpal	50	tolerant to air & noise pollution
7	Bambusa vulgaris	Bamboo	40	noise barrier
8	Mangifera indica	Mango	100	tolerant to air & noise pollution
9	Ficus bengalensis	Wad	100	fluoride tolerant, common in region
10	Acacia leucophlola	subabhul	50	dust tolerant, very common in the region
11	Aegial marmalosea	Bel	70	tolerant to air pollution
12	Delonix regia	Gulmohor	50	Fly ash tolerant

45.Total quantity of plants on ground

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


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

47.Energy


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Power requirement:	Source of power supply :	own cogeneration plant
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	During season: 11.85 MW, During off season: 1.97 MW
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	625 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

NA

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	0

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Stack	Electrostatic precipitator	Electrostatic precipitator

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

51. Environmental Management plan Budgetary Allocation

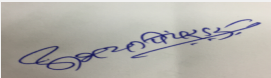
a) Construction phase (with Break-up):

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	Environment management plan	Environment management plan	302	30

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
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:	Two junction to the main road
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	753.00 sq.mt
	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:	Public and State transport
	Width of all Internal roads (m):	6m
	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	Sugar Industry: 5 (j) and biomass based power plants: 1 (d)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes


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	Date of online submission	27-04-2018
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TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
15	179 acres	141640 sq. m.

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

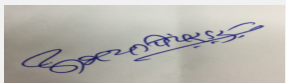

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(j)B1 & 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

PP has obtained earlier EC vide letter No. ENV(NOC) 2005/1614/CR-228/PI dated 26.05.2006.

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 carry out Public Consultation as per procedure stipulated in the EIA Notification, 2006 and submit report along with timelines for the implementation of the issues raised during the Public Consultation.

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.

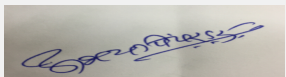
PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

Specific Conditions by SEAC:

- 1) PP to submit revised lay out plan showing entry/exit gates, internal road width of six meters, storm water drains, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas, 33% green belt, location of cogeneration plant, rain water harvesting etc. along with area calculations.
- 2) PP to submit details of year wise crushing quantities against the consented quantities; PP also to submit an affidavit for not violating any requirement of EIA Notification, 2006 amended from time to time.
- 3) PP to submit structural stability certificate of existing structures to accommodate proposed expansion.
- 4) PP to submit details of cogeneration plant with its capacity, energy generation, onsite consumption and sale to MSEDCL along with details on the source of pollution and proposed mitigation measures.
- 5) PP to submit copy of agreement with water resources department for permission to lift of water from Nira left bank canal.
- 6) PP to provide Sewage Treatment Plant in place of soak pits and submit design details.
- 7) PP to submit detailed plan for disposal of all kinds of waste materials including molasses and ensure nothing to be discharged outside the factory premises.
- 8) PP to include design details of boiler and calculation of stack height in the EIA report.
- 9) PP to submit chemical analysis of ash along with quantities of generation and disposal.
- 10) PP to submit chemical analysis report of compost and in case it is to be used as soil manure, certificate to be obtained from competent authority for its suitability.
- 11) PP to prepare report in consultation with Sugar Cane Research Center/ Agriculture University for enhancement of sugar cane productivity by adopting improved management practices. PP to explore possibility of sugar cane production required for proposed expansion without bringing additional land under cultivation.
- 12) PP to submit plan to achieve 100% drip irrigation in the sugar cane fields under their jurisdiction along with arrangements of the funds and consent from the Board of Directors for the same.
- 13) PP to carry out HAZOP/ Risk Assessment and submit Disaster Management plan.
- 14) PP to include details of generation of hazardous and non-hazardous waste and its disposal in the EIA report.
- 15) PP to submit their plan to implement the CER as per OM issued by MoEF&CC dated 01.05.2018.
- 16) PP to include details of methodology used for socioeconomic survey and include the same in the EIA report.
- 17) PP to submit an undertaking for not having any eco sensitive area in the range of 5 KM from proposed project site.


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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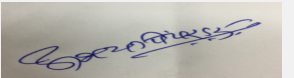
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Subject: Environment Clearance for ENVIRONMENTAL CLEARANCE FOR INSTALLATION OF TANKS FOR STORAGE AND DISTRIBUTION OF AVIATION TURBINE FUEL

Is a Violation Case: No


1.Name of Project	M/s. IOT Infrastructure & Energy Services Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s. IOT Infrastructure & Energy Services Ltd
4.Name of Consultant	Green Circle Inc.
5.Type of project	Isolated storage & handling of chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSION PROJECT- INSTALLATION OF TANKS FOR STORAGE AND DISTRIBUTION OF AVIATION TURBINE FUEL
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	Plot no.101, Sector1, NH 4B, Dronagiri Node, Navghar, Navi Mumbai
9.Taluka	Uran
10.Village	Dhutum
Correspondence Name:	Mr. N Suresh Kumar
Room Number:	Plot no.101, Sector1,
Floor:	-
Building Name:	-
Road/Street Name:	NH 4B
Locality:	Dronagiri Node, Navghar
City:	Navi Mumbai
11.Area of the project	CIDCO
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 30136
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.)	227029
16.Deductions	-
17.Net Plot area	-
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.): 30136
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: 08-10-1997
19.Total ground coverage (m2)	227029
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	13.27
21.Estimated cost of the project	300000000

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	
23.Number of tenants and shops	Not applicable			
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))	24 Mt			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	3 Mt			
29.Existing structure (s) if any	Existing Industry as per CTO			
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	Kerosene	1,20,000	0	1,20,000
2	Furnace Oil	1,20,000	0	1,20,000
3	High Speed Diesel	1,20,000	0	1,20,000
4	Naphtha	1,20,000	0	1,20,000
5	Motor Spirit	1,20,000	0	1,20,000
6	CBFS	0	1,20,000	1,20,000
7	Aviation Turbine Fuel	0	20,000	20,000
8	Ethanol	0	82	82
32.Total Water Requirement				


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Dry season:	Source of water	CIDCO
	Fresh water (CMD):	12.6
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	12.6
	Fire fighting - Underground water tank(CMD):	0.5
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	Source of water	CIDCO
	Fresh water (CMD):	12.6
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	12.6
	Fire fighting - Underground water tank(CMD):	0.5
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	


33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	4.1	0	4.1	0	0	0	4.1	0	4.1
Industrial Process	3.0	0	3.0	0	0	0	3.0	0	3.0
Gardening	5.0	0	5.0	0	0	0	0	0	0



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	-
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	-
	Budgetary allocation (O & M cost) :	-
	Details of UGT tanks if any :	Two tanks of 32 KL for Ethanol storage. Not yet commissioned.
35.Storm water drainage	Natural water drainage pattern:	-
	Quantity of storm water:	-
	Size of SWD:	Width 1 mtr x Depth 1.5 mtr
Sewage and Waste water	Sewage generation in KLD:	4.1
	STP technology:	Soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	No solid waste generation
	Disposal of the construction waste debris:	For Leveling at site
Waste generation in the operation Phase:	Dry waste:	0
	Wet waste:	0
	Hazardous waste:	Oily waste- 0.15 Mt/ Month, Spent oil (D.G. Set) - 0.02 Mt/ Month
	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:	NA
	Wet waste:	NA
	Hazardous waste:	Mumbai Waste management
	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:	NA
	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	-	-	-	5.5-9.0
2	Oil & Grease	mg/l	-	-	10
3	BOD (3 day ,27 °C)	mg/l	-	-	100
4	COD	mg/l	-	-	250
5	Suspended Solid	mg/l	-	-	100
Amount of effluent generation (CMD):		Waste water from tank flushing - 4.5 KLD			
Capacity of the ETP:		Oily Water Separator			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Oily waste	5.2	Mt/ Month	0.1	0.05	0.15	Mumbai Waste management
2	Spent oil (D.G. Set)	5.1	Mt/ Month	0.01	0.01	0.02	Mumbai Waste management


39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG -1	HSD / 0.21 Lit/hr/KVA	1	8 mtr	0.15	272°C
2	DG -2	HSD / 0.21 Lit/hr/KVA	2	8 mtr	0.15	281°C
3	DG -3	HSD / 0.21 Lit/hr/KVA	3	8 mtr	0.15	268°C



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4	DG -4 (Phase-I)	HSD / 0.21 Lit/hr/KVA	4	8 mtr	0.15	268°C
5	DG-5 (Phase-II)	HSD / 0.21 Lit/hr/KVA	5	8 mtr	0.15	268°C
40.Details of Fuel to be used						
Serial Number	Type of Fuel	Existing	Proposed	Total		
1	HSD	0.63 Lit/hr/KVA	0.42 Lit/hr/KVA	1.06 Lit/hr/KVA		
41.Source of Fuel		-				
42.Mode of Transportation of fuel to site		By Road				
43.Green Belt Development						
		Total RG area :	19020			
		No of trees to be cut :	0			
		Number of trees to be planted :	-			
		List of proposed native trees :	Neem, Gulmohar etc.			
		Timeline for completion of plantation :	-			
44.Number and list of trees species to be planted in the ground						
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance		
1	-	-	-	-		
45.Total quantity of plants on ground						
46.Number and list of shrubs and bushes species to be planted in the podium RG:						
Serial Number	Name	C/C Distance	Area m2			
1	-	-	-			
47.Energy						


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Power requirement:	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	400 KVA
	DG set as Power back-up during construction phase	4 Nos
	During Operation phase (Connected load):	2743 KVA
	During Operation phase (Demand load):	-
	Transformer:	NA
	DG set as Power back-up during operation phase:	5 Nos. x 650 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Purchase of energy efficient appliances.
 Constant monitoring of energy consumption and defining targets for energy conservation.
 Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels. LED lamps will be provided, wherever applicable.
 To the extent possible and technically feasible, energy efficient equipment will be selected.
 Gravity flow will be preferred wherever possible to save pumping energy.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Bulbs	-
2	VFDs for Pumps	-

50. Details of pollution control Systems


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

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

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Green Belt development	Tree plantation	1.0
2	Dust suppression	Water sprinkling, dust mask	0.5
3	Environment Monitoring	Monitoring charges of Air, water, noise	0.5


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4	Occupational Health	Health check-up, PPEs	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	Environment Monitoring and Management	Environmental Monitoring of Air, water, noise	-	1.0
2	Occupational Health	Health Check-up of workers, Provision of First-aid medical facility, Provision of PPEs to workers	1.0	0.5
3	Green Belt	Development of trees, Green area	-	8.0
4	CSR Activity	CSR works	2.0	-


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
HSD (Fixed Dome Roof- 36 x 20)	Existing	Terminal	20000 KL	20000 KL	-	-	Rail wagon or Truck or Pipeline
HSD (Fixed Dome Roof- 36 x 20)	Existing	Terminal	20000 KL	20000 KL	-	-	Rail wagon or Truck or Pipeline
HSD (Fixed Dome Roof- 36 x 20)	Existing	Terminal	20000 KL	20000 KL	-	-	Rail wagon or Truck or Pipeline
Naphtha (Internal FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
Naphtha (Internal FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
Naphtha (External FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
Naphtha(External FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
FO (Fixed Dome Roof- 20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
HSD (Fixed Dome Roof- 20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
MS (Internal FR-20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
SKO (Fixed Dome Roof- 20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
SKO (External FR-20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline


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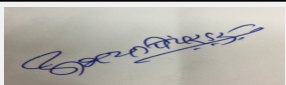
MS (External FR-20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
FO(Fixed Dome Roof- 25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wRail wagon or Truck or Pipeline
MS (Internal FR-25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
SKO (External FR-25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
HSD(External FR-25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
Ethanol (UG storage tank)	Proposed	Within Existing Terminal	82 KL	82 KL	-	-	Truck or Pipeline
Aviation Turbine Fuel (Internal FR 25x20)	Phase-I	Within Existing Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
Aviation Turbine Fuel (Internal FR 25x20)	Phase-I	Within Existing Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
Petroleum Products MS, Naphtha, HSD, SKO, FO ,ATF etc	Phase-II	Within Existing Terminal	1,60,000 KL	1,60,000 KL	-	-	Rail wagon or Truck or Pipeline
CBFS	Proposed	Within Existing Terminal	1,20,000 kl	1,20,000 KL	-	-	Rail wagon or Truck or Pipeline

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:	5000
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	20
	Number of 4-Wheelers as approved by competent authority:	10
	Public Transport:	-
Width of all Internal roads (m):	6m, 9m, 10 m	


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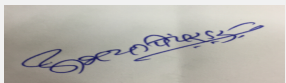

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	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category - B1, 6 (B)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-11-1996

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

DECISION OF SEAC

After preliminary discussion regarding the proposed project; PP requested to postpone the case.


Hence, Deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-00000000105


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153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 153rd (Day-1) Meeting Date June 30, 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 Talaja 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 Talaja			


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 Talaja
2	Mechanical Evaporator Residue	37.3	kg/day	--	133.7	133.7	Mumbai Waste Management Ltd. - CHWTSDF at Talaja


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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, Schleichera 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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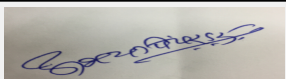


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4	Macaranga peltata	Chandwar	23	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kusum	23	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	23	A native evergreen medium 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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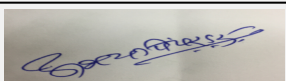
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	Other Relevant Informations	<p>1. The existing steam boiler of 0.6 TPH & thermic fluid heater of 2 lakh kilo calorie/hour will be sale out after expansion.</p> <p>2. ETP treatment scheme: Existing: The domestic waste water is subjected to soak pit & 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	-

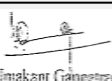
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	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


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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.

DECISION OF SEAC

PP requested to postpone the case.


Hence, Deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000105



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