### 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

**Subject:** Environment Clearance for Proposed Expansion in Common Bio-Medical Waste Treatment and Disposal facility at Survey No. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra-421301

Is a Violation Case: No

Is a Violation Case: No						
1.Name of Project	Proposed Expansion in Common Bio-Medical Waste Treatment and Disposal facility at Survey No. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra-421301					
2.Type of institution	Government					
3.Name of Project Proponent	Kalyan Dombivali Municipal Corporation					
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd. (107, Hiren Light Industrial Estate, Mougul Lane, Mahim, Mumbai - 400 016)					
5.Type of project	Others (Common Bio-Medical Waste Treatment and Disposal facility)					
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	NA					
8.Location of the project	Survey No. 58/3, Adharwadi Jail Road					
9.Taluka	Kalyan					
10.Village	Umberde Gaon					
Correspondence Name:	Deputy Engineer, Kalyan Dombivali Municipal Corporation					
Room Number:	NA					
Floor:	NA					
<b>Building Name:</b>	Kalyan Dombivali Municipal Corporation					
Road/Street Name:	Survey no. 58/3, Adharwadi Jail Road					
Locality:	Umberde Gaon, Kalyan (W)					
City:	Kalyan, Thane-421301					
11.Area of the project	Kalyan Dombivali Municipal Corporation					
	NA					
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Planning authority KDMC as per MRTP act 1966					
	Approved Built-up Area: 502					
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.)	4200					
16.Deductions	NA					
17.Net Plot area	4200					
	a) FSI area (sq. m.): NA					
18 (a).Proposed Built-up Area (FSI & Non-FSI)	b) Non FSI area (sq. m.): NA					
102	c) Total BUA area (sq. m.): 502					
	Approved FSI area (sq. m.):					
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.):					
	Date of Approval:					
19.Total ground coverage (m2)	728					
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18					
21.Estimated cost of the project	27400000					

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Dr. Umakant Dangat

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	2	2.Numb	er of k	ouildin	gs & its con	figuration				
Serial number	Buildin	ng Name & n	umber	Nu	mber of floors	Height of the building (Mtrs)				
1		Incinerator, A redder buildii			0	5.5				
2	Autoclay	ve waste stora	ige area		0	3.0				
3	Incinera	te waste stora	age area		0	3				
4	Treated	l waste storag	ge area		0	3				
23.Number tenants an		NA								
24.Number expected r users		Only operati	onal staff (T	otal 25 Pers	onnel)					
25.Tenant per hectar		NA								
26.Height building(s)										
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)  5										
28.Turning for easy ac fire tender movement around the excluding for the pla	from all building the width	5			YOUN					
29.Existing		Existing Bio	Medical Wa	ste manager	nent facility					
30.Details demolition disposal (I applicable	with f	NA	C							
			31.P	roduct	ion Details					
Serial Number	Pro	duct	Existing	(MT/M)	Proposed (MT/M	) Total (MT/M)				
1	Incin	erator	100 k	kg/hr	100 kg/hr	200 kg/hr				
2		clave	50 lit/	'cycle	50 lit/cycle	100 lit/cycle				
3	Shre	edder	50 k	50 kg/hr 50 kg/hr 100 kg/hr						
	32.Total Water Requirement									

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		Source of wat	er	Ground water	er through ope	n well						
		Fresh water (	CMD):	13.8 m3/day								
		Recycled water Flushing (CM		6.2 m3/day (Flushing+Washing)								
		Recycled wate Gardening (C		7 m3/day								
		Swimming po make up (Cun		Not applicable								
Dry seasor	1:	Total Water Requirement:	(CMD)	20 m3/day								
		Fire fighting - Underground tank(CMD):		Not applicab	ole			_0				
		Fire fighting overhead wat tank(CMD):		Not applicable								
		Excess treated	d water	11								
		Source of wat										
		Fresh water (	CMD):	13.8 m3/day								
		Recycled water Flushing (CM		6.2 m3/day (	Flushing+Was	shing)						
		Recycled wate Gardening (C		7 m3/day								
		Swimming po make up (Cun		Not applicable								
Wet season	n:	Total Water Requirement:	(CMD)	20 m3/day								
		Fire fighting - Underground tank(CMD):		Not applicable								
		Fire fighting - Overhead wat tank(CMD):		Not applicab	ole							
		Excess treate	d water	Not applicable								
Details of pool (If an		Not applicable										
	^	33.	Detail	s of Total	water co	nsume	d					
Particula rs	Cons	umption (CMI	0)	Loss (CMD) Effluent (CMD)								
Water Require	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total			

Particula rs	Cons	umption (CM	D)	I	Loss (CMD)		Effluent (CMD)		
Water Require ment	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1	1	2	0.2	0.2	0.4	0.8	0.8	1.6
Industrial Process	9	9	18	3.2	3.2	6.4	5.8	5.8	11.6

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	Level of the Ground water table:	5.5
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
34.Rain Water Harvesting	Quantity of recharge pits:	1
(RWH)	Size of recharge pits :	1.44
	Budgetary allocation (Capital cost) :	Rs. 60000
	Budgetary allocation (O & M cost) :	Rs. 5000/Annum
	Details of UGT tanks if any :	3 UGT tanks- Total area 27 m2
2.	Natural water drainage pattern:	As per gravity
35.Storm water drainage	Quantity of storm water:	1900 mm
	Size of SWD:	50 m2
	Commo mo mana	
	Sewage generation in KLD:	1.6 KLD
	STP technology:	NA. Entire waste water generated will be collected and treated in the existing Effluent Treatment Plant
Sewage and	Capacity of STP (CMD):	NA
Waste water	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
	36.Solid	d waste Management
Waste generation in	Waste generation:	NA
the Pre Construction and Construction phase:	Disposal of the construction waste debris:	NA
	Dry waste:	Proposed facility is for treatment & disposal of Bio-medical waste
	Wet waste:	Proposed facility is for treatment & disposal of Bio-medical waste
Waste generation	Hazardous waste:	Used Oil 200 lit/year, Incineration Ash 1000 kg/month and ETP sludge 100 kg/day
in the operation Phase:	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
	ľ	



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		Dry waste:		NA						
		Wet waste:	•	NA						
Mode of Disposal of waste:  Biomapplic STP S sludg		Hazardous	waste:	premises only, Incinera	Used oil will be re-used as lubricants in the machineries within the premises only, Incineration Ash and ETP sludge will be Collection, storage, transportation and sent to TSDF site.					
		Biomedica applicable		Proposed facility is for t	reatment & disposal of B	io-medical waste				
		STP Sludg sludge):	e (Dry	NA						
		Others if a	ny:	NA						
	Location(s):		Survey no. 58/3, Adharv Maharashtra - 421301	Survey no. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra - 421301						
Area requirem	ent:	Area for the of waste & material:		49.89 sq. m.						
		Area for m	achinery:	167.13 sq. m.						
	allocation	Capital cos	st:	Rs. 2.74 Crore		<b>Y</b>				
(Capital co O&M cost)		O & M cos	t:	Rs 5 lacs/Annum	Rs 5 lacs/Annum					
			37.Ef	fluent Charecter	estics					
Serial Number	Paran	neters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)				
1	р	Н	NA	6.5-8.5	6.5-8.5	6.5-8.5				
2	ВС	OD mg/l		80	<30	100				

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)					
1	pН	NA	6.5-8.5	6.5-8.5	6.5-8.5					
2	BOD	mg/l	80	<30	100					
3	COD	mg/l	150	<100	250					
4	Suspended Solids	mg/l	200	<100	100					
5	Oil & Grease	mg/l	10	0	20					
Amount of effluent generation		12.2	4							

Amount of effluent generation (CMD): 13.2

Capacity of the ETP: 13.5

Amount of treated effluent recycled: 6.2

Amount of water send to the CETP: NA

Membership of CETP (if require): NA

Note on ETP technology to be used 
It is physiochemical treatment with extended aeration and biological treatment with pressure sand filter and activated carbon filter as tertiary treatment.

Disposal of the ETP sludge Collection, storage, transportation and sent to TSDF site.

#### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1	lit/year	100	100	200	It will be re-used as lubricants in the machineries within the premises only
2	Incineration Ash	eration Ash BMW Cat.		500	500	1000	Collection, storage, transportation and sent to TSDF site.
3	ETP Sludge	34.4	kg/day	50	50	100	Collection, storage, transportation and sent to TSDF site.



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			3	39.St	acks em	issio	n De	etails		
Serial Number	Section	& units	Fı		ed with ntity	ntity Stack No.		Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Incinerato	r (Existing)		LI	00	1	-	30	0.8	313 K
2		t Stack sting)		die	esel	1		3	0.1	350 K
3	Incinerator	(Proposed)		LI	00	1	-	30	0.8	315 K
4		t Stack oosed)		die	esel	1	-	3	0.1	350 K
			40	0.De	tails of <b>F</b>	uel	to be	e used		
Serial Number	Тур	e of Fuel			Existing			Proposed		Total
1	LD	OO/Diesel			16.5 Lit/hr			16.5 Lit/hr		33 Lit/hr
41.Source	of Fuel			Near	by petrol pu	mp				<b>Y</b>
42.Mode of	Transportat	ion of fuel to	site	By ro	ad				0	
		ı								
		Total RG a								
	No of trees to b			e cut	NA			0		
	Number of tree be planted :			s to	350		1			
43.Green Belt Development  List of proponative trees		-						nsis, Aphanamixis Buchanania lanzan, a sisoo, Diospyros a Chois, Lagerstroemia Millingtonia hortensis		
		Timeline for completion plantation	ı of	5 years						
	44.Nu	mber and	l list	of t	rees spe	cies	to b	e plante	d in the g	jround
Serial Number	Name of	the plant	Co	ommo	n Name		Qua	ntity		eristics & ecological importance
1	Azadirac	hta indica		Ne	em		3	0		roller, Gas Absorbent, pise Controller
2	Deloni	x regia		Gulmi	mohar		5	0	Dust Cont	croller, Gas Absorbent
3	Polyalthia	longifolia		Asop	oalav		14	18	Evergreen	, Dust Controller, Gas Absorbent
4	Ficus beng	ghalensis L		Va	ad		2	2		, Dust Controller, Gas Absorbent
5		a indica L		Ar	nli		3	5		roller, Gas Absorbent, pise Controller
	Derris indica (Lam.) Bennet		Karanj					Dust Controller, Gas Absorb		
6	Ber			Kar	ranj		3	5	Dust Cont	croller, Gas Absorbent

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45. Total quantity of plants on ground

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46.Num	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								
		Source of power supply:	1	Maharashtra Stat	e Elect	ricity Board (MSEB)			
		During Construction Phase: (Demand Load)		50 KVA					
		DG set as Power back-up during construction ph		NA					
Pov	NO.W	During Operation phase (Connected load):		200 KW					
require		During Operation phase (Demand load):	n	200 KW					
		Transformer:		NA					
		DG set as Power back-up during operation phase		Existing DG Set of	VA and Proposed D.G Sets of 62.5 KVA				
		Fuel used:		Total 33 lit/hr LD0	O or Di	esel			
		Details of high tension line pass through the plot any:		Not applicable					
		48.Energy	savi	ng by non-co	nven	tional method:			
						Ds) means reduction in usage energy parking light, roadside light etc. will be			
		49.De	tail	calculations	& %	of saving:			
Serial Number	I	Energy Conservati	on M	easures		Saving %			
1	U	se of Light Emitted	Diod	e (LEDs)		20			
2	Usage of	Solar energy at difference explore		locations will be		5			
		50.Deta	ails	of pollution o	ontr	ol Systems			
Source	E	xisting pollution (	ontro	ol system		Proposed to be installed			
Effluent									
for process, washing and domestic	ETP					Modification of existing ETP			
Air pollution from Incinerator		Scrubb	er			Scrubber			
Noise		Acoustic end	closure	e		Acoustic enclosure			

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	allocation cost and	Capital co	st:	25000						
	cost):	O & M cos	st:	1500						
51	.Envir	onmen	tal Mar	nagem	ent p	olan Bu	ıdg	etary	Alloca	ation
		a)	Construc	ction ph	ase (v	with Bre	ak-u	p):		
Serial Number	Attributes Par			neter		Total (	Cost p	er annu	m (Rs. In I	Lacs)
1	Е	MP -	Air and					1.00		
	Т	ŀ	o) Operati	ion Phas	se (wi	th Brea	k-up	<u>):</u>		
Serial Number	Com	ponent	Descr	iption	Capi	ital cost Rs Lacs	. In		tional and ost (Rs. in	Maintenance Lacs/yr)
1	Е	TP.	Waste manageme			30			2.5	3
2	Scr	ubber	_	on control sures	ol 10.5				0.7	
3	Land	lscape		n belt pment	1.75			0.3		
4		l waste gement	Solid manag		1.5				0.75	5
5	_	ution control sures	Noise pollumeas	1 (0)					0.75	
<b>51.S</b>	torage	of che	micals	-		_	osiv	e/haz	zardou	s/toxic
				subst	ance					
Descri	ption	Status	Location	Location Sta		Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT		Source of Supply	Means of transportation
Diesel ar	nd LDO	Liq. Fuel	Fuel stora	.ge	2	3	-	13.2	Nearest Petrol pump	By road
			52.A	ny Othe	r Info	rmation	1			
No Informa	tion Availab	ole								
			53.	Traffic N	<b>Iana</b>	gement				
	5	Nos. of the to the madesign of confluence		1 Junction						



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	Number and area of basement:	Not applicable				
	Number and area of podia:	NA				
	Total Parking area:	226.24				
	Area per car:	NA				
	Area per car:	NA				
Parking details:	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):	4				
	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	7(d) Common hazardous waste treatment, storage and disposal facilities (TSDFs)				
	Court cases pending if any	NA				
	Other Relevant Informations	NA				
	Have you previously submitted Application online on MOEF Website.	Yes				
1	Date of online submission	29-06-2016				
SEAC	DISCUSSION	ON ENVIRONMENTAL ASPECTS				
Environmental Impacts of the project	the report. PP has conduper EIA Notification, 20	t to the committee. Various aspects of the Environment are discussed in acted base line data collection for Air, Water, Soil & Noise parameters as 06 amended from time to time As per data submitted by the PP in the all 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 Liquio	l Discahrge for waste water treatment.				
Drainage pattern of the project	Not Applicable.					
Ground water parameters	As per data submitted b project site.	y PP, ground water parameters are within the prescribed limits at				





Air Quality & Noise Level Issues  Energy Management  Traffic circulation Traffic circu		
Traffic circulation system and risk assessment   PP proposes 226.24 Sq.m area for parking on site. PP to carry out traffic Impact Study and implement the recommendations.    PP proposes 226.24 Sq.m area for parking on site. PP to carry out traffic Impact Study and implement the recommendations.    PP proposes 33% green blet.		Proposed site is itself a bio medical waste treatment facility.
Traffic circulation system and risk assessment  Landscape Plan  Disaster management system and risk assessment  PP proposes 33% green blet.  PP proposes adequate steps to handle an emergency.  Socioeconomic impact assessment  PP proposes Rs. 1 lakh /Annum as EMP cost.  Any other issues related to environmental sustainability  Brief information of the project by SEAC		
System and risk assessment   PP proposes 226.24 Sq.m area for parking on site. PP to carry out traffic Impact Study and implement the recommendations.    Landscape Plan	Energy Management	
Disaster management system and risk assessment  Socioeconomic impact assessment  Environmental Management Plan  Any other issues related to environmental sustainability  Pr to ensure treatment of biomedical waste received on site within 24 hours.  Brief information of the project by SEAC	system and risk	
management system and risk assessment  Socioeconomic impact assessment  PP has carried out socio economic impact study and included in the EIA report.  Environmental Management Plan  Any other issues related to environmental sustainability  PP to ensure treatment of biomedical waste received on site within 24 hours.  Brief information of the project by SEAC	Landscape Plan	PP proposes 33% green blet.
Environmental Management Plan  Any other issues related to environmental sustainability  Brief information of the project by SEAC	management system	PP proposes adequate steps to handle an emergency.
Any other issues related to environmental sustainability  PP to ensure treatment of biomedical waste received on site within 24 hours.  Brief information of the project by SEAC		PP has carried out socio economic impact study and included in the EIA report.
PP to ensure treatment of biomedical waste received on site within 24 hours.  Brief information of the project by SEAC		PP propsoes Rs. 1 lakh /Annum as EMP cost.
	related to environmental	PP to ensure treatment of biomedical waste received on site within 24 hours.
		Brief information of the project by SEAC

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PP submitted their porposal of ToR to SEAC-1; SEAC-1 granted TOR with additional points in their 131st meeting held on 15-16 July, 2017.

PP submitted EIA/EMP report for appraisal in 143rd meeting of SEAC-1 held on 11.10.2017 where in the proposal was deferred till submission of compliance of following points.

- 1. PP to submit layout plan showing entry and exit gates, 33% green belt, internal road width of six meters and turning radius of nine meters, parking areas, pollution control facilities.
- 2. PP to ensure that no tree cutting is permitted for proposed development and submit an undertaking in this regard.
- 3. The MoU made with operating agency doesn't reveal the responsibility of Kalyan Dombivali Municipal Corporation; PP to form Environment Cell and define the roles and responsibility of the team members with respect to the compliance of environment related issues.
- 4. PP to submit their plan for awareness/training/sensitization of hospitals in their jurisdiction so as to ensure compliance of the Bio Medical Waste(Management & Handling) Rules.
- 5. PP to submit an undertaking to meet the parameters stipulated by MoEF &CC at the out let of Incineration stack.
- 6. In the EIA report the air pollution parameters of PM10 and PM2.5 are exceeding the prescribed limits but PP has not explained the reasons and mitigation measures to bring them under prescribed limit. PP to revise the EIA report.
- 7. PP to collect samples from the open well exists on the site and submit analysis report' PP to obtain permission from competent authority to use open well water.
- 8. PP to submit point wise and relevant compliance of points raised during Public Consultation.

Now PP submitted the compliance of above points.



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#### **DECISION OF SEAC**

After detailed deliberations with the PP and their accridited consultant, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the compliance of following points.

#### **Specific Conditions by SEAC:**

- 1) PP to include details of bio medical waste in the Environmental Status Reprot of the KDMC every year.
- 2) PP to prepare and implement the taining program on Bio Medical Waste Management for all the stake holders.
- 3) PP to obtian permission from CGWA to draw ground water.
- **4)** PP to provide access to the proposed site with 9 meter wide road.

#### FINAL RECOMMENDATION

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

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## 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

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

Is a Violation Case: No

1.Name of Project	Proposed establishment of Synthetic Organic Chemical manufacturing facility at Plot No B29, Additional Lote Parshuram MIDC, Tal. Khed, Dist: Ratnagiri
2.Type of institution	Private
3.Name of Project Proponent	Shree Pushkar Chemicals and Fertilizers Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Synthetic Organic Chemical Manufacturing Industry
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. B-29, Additional Lote Parshuram MIDC
9.Taluka	Khed
10.Village	Lote
11.Area of the project	Additional MIDC Lote Parshuram, Dist Ratnagiri
	Not appicable
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Not Applicable
rippioval ivalibor	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No, Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Industrial Plot Area - 40,000 Sq. m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
	a) FSI area (sq. m.): Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): Not applicable
	Approved FSI area (sq. m.):
18 (b).Approved Built up area as per DCR	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	72000000

## 22. Number of buildings & its configuration

Serial number	Building Name & number		Number of floors	Height of the building (Mtrs)
1	N	Not applicable	Not applicable	Not applicable
23.Number		Not Applicable		
24.Number expected r users		Not applicable		

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25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Not Applicable
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

## 31.Production Details

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

**32.Total Water Requirement** 



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	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
Dry season:	Total Water Requirement (CMD)	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	<b>Excess treated water</b>	Not applicable
	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
Wet season:	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	<b>Excess treated water</b>	Not applicable
Details of Swimming pool (If any)	Not applicable	

### 33.Details of Total water consumed

Particula rs	Const	umption (CM	D)	I	Loss (CMD)		Effluent (CMD)		
Water Require ment	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	12	12	0	4	4	0	8	8
Cooling tower & thermopa ck	0	360	360	0	85	85	0	275	275
Industrial Process	0	35	35	0	10	10	0	25	25
Gardening	0	5	5	0	5	5	0	0	0

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Level of the Ground water table:   Size and no of RWH tank(s) and Quantity:			
Sewage and Waste water   Size of SWD:   Will be furnish in EIA   Will be furnish in EIA			will be furnish in EIA
Sewage and Waste water   Size of STP technology:   Size of STP technology:   Size of STP:   STP:   STP:   STP:   String Stri		tank(s) and	will be furnish in EIA
Patrosting (RWH)   Size of recharge pits   will be furnish in EIA			will be furnish in EIA
Sewage and Waste water   Size of SWD:   Will be furnish during EIA			will be furnish in EIA
Capital cost):   Budgetary allocation   will be furnish in EIA	(RWH)	Size of recharge pits :	will be furnish in EIA
Co & M cost):   Details of UGT tanks   In EIA.			will be furnish in EIA
Sewage and Waste water   Size of SWD:   Will be provide in EIA			
Sewage and Waste water   Size of SWD:   Will be provide in EIA			
Sewage and Waste water   Size of SWD:   Will be provide in EIA			
Sewage and Waste water   Size of SWD:   will be provide in EIA	35 Storm water		will be provide in EIA
Sewage and Waste water    Sewage generation in KLD:   STP technology:   Will be furnish during EIA		water:	
Sewage and Waste water    Capacity of STP (CMD):		Size of SWD:	will be provide in EIA
Sewage and Waste water    Capacity of STP (CMD):			
Sewage and Waste water    Capacity of STP (CMD):   Not Applicable			8 cmd
Sewage and Waste water    CMD :   Not Applicable		STP technology:	Will be furnish during EIA
Waste water    Location & area of the STP:   Not Applicable	Sewage and		Not Applicable
Capital cost):   Nil	_		Not Applicable
Company   Section   Sect			Nil
Waste generation in the Pre Construction and Construction phase:  Disposal of the construction waste debris:  Will be disposed as per norms.  Waste generation  Phase:  Waste generation  Phase:  Construction debris , iron scrap, paint drums, waste insulation etc.  Will be disposed as per norms.  Will be disposed as per norms.  Fly ash: 13 TPD , Lagging waste: 300 kg/month, Iron scrap : 400 kg/month  Wet waste:  Not Applicable  Biomedical waste (If applicable):  STP Sludge (Dry sludge):  Not Applicable  Not Applicable			Nil
the Pre Construction and Construction phase:  Disposal of the construction waste debris:  Will be disposed as per norms.  Will be disposed as per norms.  Fly ash: 13 TPD , Lagging waste: 300 kg/month, Iron scrap : 400 kg/month  Wet waste:  Not Applicable  Biomedical waste (If applicable):  STP Sludge (Dry sludge):  Not Applicable  Not Applicable			5
and Construction construction waste debris:  Will be disposed as per norms.  Fly ash: 13 TPD , Lagging waste: 300 kg/month, Iron scrap : 400 kg/month  Wet waste:  Not Applicable  Biomedical waste (If applicable):  STP Sludge (Dry sludge):  Not Applicable  Not Applicable			Construction debris, iron scrap, paint drums, waste insulation etc.
Waste generation in the operation Phase:    Wet waste:   Not Applicable	and Construction	construction waste	Will be disposed as per norms.
Waste generation in the operation Phase:  Biomedical waste (If applicable):  STP Sludge (Dry sludge):  Not Applicable  Not Applicable		Dry waste:	
in the operation Phase:  Biomedical waste (If applicable):  STP Sludge (Dry sludge):  Not Applicable  Not Applicable		Wet waste:	Not Applicable
in the operation Phase:  Biomedical waste (If applicable):  STP Sludge (Dry sludge):  Not Applicable  Not Applicable	Waste generation	Hazardous waste:	Details are provided in Sr. No. 42 below
sludge):	in the operation		Not Applicable
Others if any: Not Applicable			Not Applicable
		Others if any:	Not Applicable



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	Dry waste:	Fly Ash - Sold to brick manufacturer/ sent for landfilling , Lagging waste, Iron scrap to Authorized Recycler
	Wet waste:	Not Applicable
Mode of Disposal	Hazardous waste:	Disposal of Hazardous Waste as per MPCB / CPCB norms. (details are provided Point No. 42 below
of waste:	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
	Location(s):	The proposed project site is at additional Lote Parshuram MIDC. The plot is in allotted by MIDC
Area requirement:	Area for the storage of waste & other material:	designated storage area within the plant site.
	Area for machinery:	will be provided in EIA
Budgetary allocation	Capital cost:	will be provided in EIA
(Capital cost and O&M cost):	O & M cost:	will be provided in EIA
	27 74	fluent Characterestics

#### 37.Effluent Charecterestics

Serial Number	Parameters	Charecterestics Charecterestics standar					
1	рН	-	2 - 6.0	6.5 - 8.00	5.5-9.0		
2	Oil & Grease	mg/l	20	8 - 10	10		
3	BOD	mg/l	500 - 600	50 - 100	100		
4	TDS	mg/l	6000	1000 -2100	2100		
5	Suspended Solids	mg/l	200	50 - 100	100		
6	COD	mg/l	1000-1200	250	250		
7	Chloride	mg/l 1000 400-600 600					
8	Sulphate	mg/l	2000800	1000	1000		
Amount of e (CMD):	effluent generation	308 cmd					
Capacity of	the ETP:	350 m3					
Amount of trecycled:	created effluent	258 cmd					
Amount of v	water send to the CETP:	50 cmd					
Membershi	p of CETP (if require):	Yes, we will apply for membership of lote parshuram CETP shortly.					
Note on ET	P technology to be used	Effluent treatment comprising of Primary, Secondary & Tertiary treatment system followed by Multiple effect evaporator.					
Disposal of	the ETP sludge	ETP sludge	about 200 TPM is dispos	sed at CHWTSDF Taloja			
		20 II.	zardous Wasta D	\			

#### 38. Hazardous Waste Details

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



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Process residue   Process reside									-		
Serial Number   Section & units   Section & un	3			21.1		TPM	0	25	25		CHWTSDF Taloja
Termic Fluid Heater: 1 No x 6 TPH stead repart of the formation of the lot of the fluid Heater, the fluid Heater than the fluid (Emergency use only)   MSD: 125 Litres/hr   1	4	Gyp	sum	26.1		TPM	0	1500	1500		Cement manufacturers
Serial Number   Section & units   Section & un	5	Iron s	sludge	26.1		TPM	0	400	400		CHWTSDF Taloja
Section & units   Fuel Used with Quantity   Stack No.   Height from ground lameter (m)   Temp. of Exhaust Gases	6	Drums/	Barrels	33.1		No.PM	0	500	500		
Section & units   Fuel Used with Quantity   Stack No.   Height from ground liameter (m)   Temp. of Exhaust Gases	7	ETP s	sludge	35.3		TPM	0	200	200		CHWTSDF Taloja
Section & units   Section & units   Section & units   Quantity   Stack No.				39	.St	acks em	ission D	etails			
Section & units   Section & units   Section & units   Quantity   Stack No.								Height			
1 Bollers: 1 No. 8 o FPH 1 Coal - 26 TPD 1 As per norms provide in EIA Will be provided in EIA Will be p		Soction & unite					Stack No.	from ground	diamet		
1 No x 3 Lac kcal/hr capacity each   Coal - 2.5 TPD   1   As per norms   Pick   Will be provide in EIA	1			Coa	al - 2	?6 TPD	1	_	provide	-	Will be provide in EIA
As per   DG Set - 500 MW (Emergency use only)   HSD : 125 Litres/hr   1   As per   norms   will be provide in EIA	2	1 No x 3 I	Lac kcal/hr	Coa	al - 2	.5 TPD	1	_	provide		Will be provide in EIA
As per norms   Provide in EIA	3	Hot air G	Generators	Coa	al - 2	4 TPD	1	_	provide		Will be provide in EIA
Serial Number   Type of Fuel   Existing   Proposed   Total	4	4   HSI) · 17			: 125	Litres/hr	1		provide		Will be provide in EIA
Number   Type of Fuel   Existing   Proposed   Total    1   Coal - (Boiler , Thermic Fluid   Heater, Hot Air Generator)   0   52.5 TPD    2   HSD (DG Set - 500 MW)   0   125Litres/hr   125Litres/hr    41.Source of Fuel   Coal - Imported , HSD - From local supplier    42.Mode of Transportation of fuel to site   Mode of transport to site is by road truck/tankers.    No of trees to be cut   Nil				40.	Det	tails of I	Fuel to b	e used			
Heater, Hot Air Generator)  Heater, Hot Air Generator)  HSD (DG Set - 500 MW) (Emergency use only)  125Litres/hr	0 1 -	Serial Type of Fuel Evisting									
41.Source of Fuel  42.Mode of Transportation of fuel to site   Mode of transport to site is by road truck/tankers.  Total RG area:   As per MIDC norms   No of trees to be planted:   Nil    Number of trees to be planted:   As per MIDC norms    Number of trees to be planted:   Will be provided as as per norms    Timeline for completion of plantation:   during construction activity    44.Number and list of trees species to be planted in the ground    Serial Number   Name of the plant   Common Name   Quantity   Characteristics & ecological importance    Will be provided in   Will be provided in   EIA   Will be prov		Туг	pe of Fuel			Existing		Proposed			Total
43.Green Belt Development  Total RG area: As per MIDC norms No of trees to be cut : Nil  Number of trees to be planted: Will be provided in EIA  43.Green Belt Development  As per MIDC norms  As per MIDC norms  Will be provided as as per norms  during construction activity  Characteristics & ecological importance  Will be provided in EIA	Number	Coal - (Boil	er , Thermic								
43.Green Belt Development    Total RG area :	Number 1	Coal - (Boil Heater, Heater, H	er , Thermic ot Air Genera G Set - 500 M	w) W) y)		0		52.5 TPD  125Litres/hr			52.5 TPD
A3.Green Belt Development  List of proposed native trees: Timeline for completion of plantation:  Will be provided as as per norms  44.Number and list of trees species to be planted in the ground  Serial Number Name of the plant  Will be provided in EIA  Will be provided in EIA  Will be provided in Will be provided in Will be provided in EIA	Number  1 2	Coal - (Boil Heater, Heater, HSD (DG (Emerg	er , Thermic ot Air Genera G Set - 500 M	w) W) y)	coal -	0	HSD - From	52.5 TPD  125Litres/hr			52.5 TPD
A3.Green Belt Development  List of proposed native trees: Timeline for completion of plantation:  Will be provided as as per norms  44.Number and list of trees species to be planted in the ground  Serial Number Name of the plant  Will be provided in EIA  Will be provided in EIA  Will be provided in Will be provided in Will be provided in EIA	Number  1  2  41.Source of	Coal - (Boil Heater, H HSD (DO (Emerg	er , Thermic ot Air Genera G Set - 500 M ency use only	w) W) y) C	$\overline{}$	0 0 Imported,		52.5 TPD  125Litres/hr local supplie	er		52.5 TPD
Serial Number of the plant   Common Name   Quantity   Characteristics & ecological importance   Will be provided in EIA	Number  1  2  41.Source of	Coal - (Boil Heater, H HSD (DO (Emerg	er , Thermic ot Air Genera G Set - 500 M ency use only	w) W) y) C	$\overline{}$	0 0 Imported,		52.5 TPD  125Litres/hr local supplie	er		52.5 TPD
As per MIDC norms   As per MIDC norms	Number  1  2  41.Source of	Coal - (Boil Heater, H HSD (DO (Emerg	er , Thermic ot Air Genera G Set - 500 M ency use only	ator) W) y) C site M	Iode	0 0 Imported , of transpor	t to site is by	52.5 TPD  125Litres/hr local supplie	er		52.5 TPD
Name of the plant   Will be provided in EIA   Will be provided in EIA   Will be provided in EIA   Will be provided in as as per norms   Will be provided as as per norms   during construction activity	Number  1  2  41.Source of	Coal - (Boil Heater, H HSD (DO (Emerg	er , Thermic ot Air General G Set - 500 M ency use only	ator) W) y) C site M	lode	0 0 Imported , of transpor	t to site is by	52.5 TPD  125Litres/hr local supplie	er		52.5 TPD
	Number  1  2  41.Source of 42.Mode of	Coal - (Boil Heater, H HSD (DO (Emerg of Fuel Transportat	er , Thermic ot Air General Set - 500 M rency use only tion of fuel to Total RG a No of trees:	whiter) W) y) C site M rea: s to be c	fode	0 0 Imported , of transpor As per MID	t to site is by	52.5 TPD  125Litres/hr local supplie	er		52.5 TPD
Serial Number         Name of the plant         Common Name         Quantity         Characteristics & ecological importance           1         Will be provided in EIA         Will be provided in EIA         Will be provided in EIA	Number  1  2  41.Source of 42.Mode of	Coal - (Boil Heater, H HSD (DO (Emerg of Fuel Transportat	er , Thermic ot Air General Set - 500 Mency use only cion of fuel to Total RG a No of trees:  Number of be planted List of pro	ator) W) y) C site M rea: s to be c f trees to	fode	0 0 Imported , of transpor As per MID Nil As per MID	t to site is by OC norms OC norms	52.5 TPD  125Litres/hr local supplier road truck/	er		52.5 TPD
Number    Name of the plant   Common Name   Quantity   importance	Number  1  2  41.Source of 42.Mode of	Coal - (Boil Heater, H HSD (DO (Emerg of Fuel Transportat	er , Thermic ot Air General Set - 500 Mency use only cion of fuel to Total RG a No of trees:  Number of be planted List of pronative trees completion	rea: sto be continued by: ftrees to be continued by: posed by: or n of	fode	o Imported , of transpor As per MID Nil As per MID Will be pro	t to site is by OC norms OC norms vided as as p	52.5 TPD  125Litres/hr local supplier road truck/h	er		52.5 TPD
EIA EIA WIII DE PROVIDENTIN EIA	Number  1  2  41.Source of 42.Mode of	Coal - (Boil Heater, Heater, H	er , Thermic ot Air General Set - 500 Mency use only tion of fuel to Total RG a No of trees:  Number of be planted List of pronative trees to plantation	rea: stobe of trees to: posed es: or n of:	o o	o Imported, of transpor As per MID Nil As per MID Will be producing cons	t to site is by OC norms OC norms vided as as p	52.5 TPD  125Litres/hr local supplie y road truck/	er tankers.	e g	52.5 TPD  125Litres/hr
45.Total quantity of plants on ground	1 2 41.Source of 42.Mode of  43.Gree Develop	Coal - (Boil Heater, H	er , Thermic ot Air General G Set - 500 M ency use only cion of fuel to Total RG a No of trees:  Number of be planted List of pronative tree Timeline for completion plantation mber and	rea: stobe of trees to: posed es: list of	o o o o o o o o o o o o o o o o o o o	o Imported, of transpor As per MID Nil As per MID Will be pro during cons	oC norms oC norms vided as as particular act	52.5 TPD  125Litres/hr local supplie y road truck/h	tankers.	icte	52.5 TPD  125Litres/hr  pround  pristics & ecological
	1 2 41.Source of 42.Mode of  43.Gree Develop  Serial Number	Coal - (Boil Heater, H	er , Thermic ot Air General Set - 500 Mency use only cion of fuel to Total RG and No of trees:  Number of be planted List of pronative trees to plantation mber and the plant crovided in	rea: sto be continued by the continued b	o o o o o o o o o o o o o o o o o o o	o Imported, of transpor As per MID Nil As per MID Will be pro during cons rees spe n Name ovided in	oC norms oC norms oC norms vided as as perfection act cies to b Qua Will be p	52.5 TPD  125Litres/hr local supplie road truck/n  per norms  ivity  e planted  ntity  rovided in	tankers.  d in th	icte	52.5 TPD  125Litres/hr  ground  pristics & ecological importance



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46.Number and list of shrubs and bushes species to be planted in the podium RG:						
Serial Number		Name		C/C Distance		Area m2
1	Will be 1	provided in EIA	W	ll be provided in EIA Will be provide		Will be provided in EIA
				47.Energ	<b>y</b>	
		Source of power supply:	•	Maharashtra State	e Elect	cricity Distribution Company Limited (MSEDCL)
		During Construction Phase: (Demand Load)		500 KW		
		DG set as Power back-up during construction ph		500 KW		
Pov	vor	During Operation phase (Connected load):		1250 KW		
require		During Operation phase (Demand load):	n	1250 KW		
		Transformer:	<b>Transformer:</b> details will be pro			in EIA
		DG set as Power back-up during operation phase		500 KW		
		Fuel used:		HSD		
		Details of high tension line pas through the plot any:		No		
		48.Energy	savi	ng by non-con	ıven	tional method:
Will be prov	ride in EIA		^^	3,3,		
		49.De	tail	calculations &	Sz %	of saving:
Serial Number	F	Inergy Conservati	on M	easures Saving %		Saving %
1		Will be provid	e in E	IA		Will be provide in EIA
		50.Det	ails	of pollution co	ontr	rol Systems
Source	Ex	disting pollution o	ontro	ol system		Proposed to be installed
Air Pollution (Boiler, TFH, Hot Air Generator , DG Set)	Not Applicable			Adequate Stack Height with control measure as per CPCB Guidelines will be provided.		
Water Pollution (Process, Utilities, Domestic)	Not Applicable					Adequate capacity of ETP.
Noise Pollution		Not Applic	able			Acoustic enclosure, PPE



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Hazardous Waste	Not Applicable		to authorized Solvent Recovery unit, to CHWTSDF
Budgetary allocation	Capital cost:	Will be provide in	EIA
(Capital cost and	0 & M cost:	Will be provide in	EIA

## 51. Environmental Management plan Budgetary Allocation

## a) Construction phase (with Break-up):

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

### b) Operation Phase (with Break-up):

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

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Hydrochloric Acid	Proposed	within plant site	25 KL	25 KL	5	nearby source	Mode of transport to site is by road truck/tankers.
Nitric Acid	Proposed	within plant site	60 KL	60 KL	190	nearby source	Mode of transport to site is by road truck/tankers.
Aniline	Proposed	within plant site	50 KL	50 KL	415	nearby source	Mode of transport to site is by road truck/tankers.
Acetic Acid	Proposed	within plant site	15 KL	15 KL	300	nearby source	Mode of transport to site is by road truck/tankers.
Caustic Lye	Proposed	within plant site	30 KL	30 KL	420	nearby source	Mode of transport to site is by road truck/tankers.
Ethylene Oxide	Proposed	within plant site	10 KL	10 KL	125	nearby source	Mode of transport to site is by road truck/tankers.
Spent Sulphuric acid	Proposed	within plant site	150 KL	150 KL	360	nearby source	Mode of transport to site is by road truck/tankers.
Lime slurry	Proposed	within plant site	15 KL	15 KL	360	nearby source	Mode of transport to site is by road truck/tankers.

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Solvent	Proposed	Proposed within plant		15 KL	15 KL	2	nearby source	Mode of transport to site is by road truck/tankers.	
	52.Any Other Information								
No Information Availab	ole								
		53.	Traffi	c Manag	jement				
	Nos. of the junction to the main road & design of confluence:			Not Applicable					
	Number and area of basement:		Not Ap	plicable					
	Number podia:	and area of	Not Ap	plicable			. 0	3	
	Total Pa	rking area:	Not Ap	plicable					
	Area per	car:	Not Ap	plicable					
	Area per	car:	Not Ap	plicable			9		
Parking details:	Number Wheeler approved compete authorit	s as d by ent	Not Applicable						
	Number Wheeler approved compete authorit	s as d by ent	Not Applicable						
	Public T	ransport:	Not Applicable						
	Width of roads (n	f all Internal n):	min. 6 mtrs						
	CRZ/ RR obtain, i	Z clearance f any:	Not Applicable						
	Criticall areas / E	d Areas / y Polluted lco-sensitive iter-State	Not Ap	plicable as p	project is lo	cated in Lote, I	MIDC Indus	trial Area.	
	Category as per schedule of EIA Notification sheet  Court cases pending if any		B, since plot is part of notified industrial area.						
2,			No, Not Applicable						
	Other Ro Informa		This Consolidated Statement is for TOR purpose.						
	Have you previously submitted Application online on MOEF Website.			Yes					
	Date of c		28-04-2	2017					
SEAC	DISC	USSION	ON	ENVIR	ONME	ENTAL A	<b>SPEC</b> 1	ΓS	

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

## Brief information of the project by SEAC

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

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

#### **DECISION OF SEAC**



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

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

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

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

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

#### **Specific Conditions by SEAC:**

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

#### FINAL RECOMMENDATION

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

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 23

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

#### 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

**Subject:** Environment Clearance for Proposed Establishment of Common Effluent Treatment Plant (CETP) at Plot No P - 30, Ambad MIDC area, Village Ambad, Tehsil Nasik, Dist. Nasik, Maharashtra by Nasik CETP Foundation

**Is a Violation Case:** No

1.Name of Project	Proposed Establishment of Common Effluent Treatment Plant (CETP) at Plot No P - 30, Ambad MIDC area, Village Ambad, Tehsil Nasik, Dist. Nasik, Maharashtra by Nasik CETP Foundation				
2. Type of institution	Private				
3.Name of Project Proponent	Nashik CETP Foundation				
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.				
5.Type of project	Not applicable				
6.New project/expansion in existing project/modernization/diversification in existing project	New project				
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable				
8.Location of the project	Plot No P - 30, Ambad MIDC area, Village Ambad, Tehsil Nasik, Dist. Nasik, Maharashtra				
9.Taluka	Nashik				
10.Village	Ambad				
11.Area of the project	MIDC Ambad				
	MIDC approval				
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: MIDC Plan approval				
i i ppi ovai i vamboi	Approved Built-up Area: 8900				
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.)					
15.10tal Plot Area (Sq. III.)	8900 sq.m				
16.Deductions	8900 sq.m Not applicable				
16.Deductions 17.Net Plot area	Not applicable				
16.Deductions 17.Net Plot area 18 (a).Proposed Built-up Area (FSI &	Not applicable Not applicable				
16.Deductions 17.Net Plot area	Not applicable  Not applicable  a) FSI area (sq. m.): Not applicable				
16.Deductions 17.Net Plot area 18 (a).Proposed Built-up Area (FSI & Non-FSI)	Not applicable  Not applicable  a) FSI area (sq. m.): Not applicable  b) Non FSI area (sq. m.): Not applicable				
16.Deductions 17.Net Plot area  18 (a).Proposed Built-up Area (FSI & Non-FSI)  18 (b).Approved Built up area as per	Not applicable  Not applicable  a) FSI area (sq. m.): Not applicable  b) Non FSI area (sq. m.): Not applicable  c) Total BUA area (sq. m.): 8900				
16.Deductions 17.Net Plot area 18 (a).Proposed Built-up Area (FSI & Non-FSI)	Not applicable  Not applicable  a) FSI area (sq. m.): Not applicable  b) Non FSI area (sq. m.): Not applicable  c) Total BUA area (sq. m.): 8900  Approved FSI area (sq. m.):				
16.Deductions 17.Net Plot area  18 (a).Proposed Built-up Area (FSI & Non-FSI)  18 (b).Approved Built up area as per	Not applicable  Not applicable  a) FSI area (sq. m.): Not applicable  b) Non FSI area (sq. m.): Not applicable  c) Total BUA area (sq. m.): 8900  Approved FSI area (sq. m.):  Approved Non FSI area (sq. m.):				
16.Deductions 17.Net Plot area  18 (a).Proposed Built-up Area (FSI & Non-FSI)  18 (b).Approved Built up area as per DCR	Not applicable  Not applicable  a) FSI area (sq. m.): Not applicable  b) Non FSI area (sq. m.): Not applicable  c) Total BUA area (sq. m.): 8900  Approved FSI area (sq. m.):  Approved Non FSI area (sq. m.):  Date of Approval:				

## 22. Number of buildings & its configuration

Serial number	Building Name & number		Number of floors	Height of the building (Mtrs)		
1	N	Not applicable	Not applicable	Not applicable		
23.Number tenants an		Not applicable				
24.Number of expected residents / users		Not applicable				

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 24 Dr. Umakant Danga of 81 (Chairman SEAC-I)

Signature: Name: Dr. Umakant Gangatrao Dangat

Dr. Umakant Dangat

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)	Min. 6 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	Not applicable. Proposed project is for establishment of CETP of 500 CMD.	0	0	0

## **32.Total Water Requirement**

		-
	Source of water	MIDC
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
Dry season:	Total Water Requirement (CMD)	12 cmd
5	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	<b>Excess treated water</b>	Not applicable

appearing Abhay Pimparkar (Secretary SEAC-I)

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		Carrage of and	<b>.</b>	Not omplied	-1-					
		Source of wa		Not applicable						
		Fresh water (		Not applicable						
		Recycled wat Flushing (CM		Not applicable						
		Recycled wat Gardening (C		Not applical	ble					
		Swimming po make up (Cu		Not applical	ole					
Wet season	n:	Total Water Requirement :	(CMD)	Not applicab	ole					
		Fire fighting Underground tank(CMD):		Not applical	ole			_0		
		Fire fighting Overhead wa tank(CMD):		Not applical	ble			0		
		Excess treate	ed water	Not applicab	ole					
Details of S pool (If any		Not applicable	9							
		33.	.Detail	s of Total	l water co	nsume	d			
Particula rs	Cons	sumption (CM	D)	Loss (CMD)			Effluent (CMD)			
Water				Existing Proposed Total Existing Pro						
Require ment	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Require	<b>Existing</b> 0	Proposed 1	<b>Total</b>	Existing 0	Proposed 0.2	<b>Total</b>	Existing 0	Proposed 0.8	Total	
Require ment										
Require ment  Domestic  Industrial	0	1	1	0	0.2	0	0	0.8	0.8	
Require ment  Domestic  Industrial	0	1	1 11	0	5	0	0	0.8	0.8	
Require ment  Domestic  Industrial	0	1 11 Level of the (	1 11 Ground	0	0.2 5	0	0	0.8	0.8	
Require ment  Domestic  Industrial	0	1 11 Level of the (water table: Size and no (tank(s) and	1 11 Ground	0 0 Not applical	0.2 5	0	0	0.8	0.8	
Require ment  Domestic  Industrial Process	0 0	1 11 Level of the (water table: Size and no (tank(s) and Quantity: Location of t	1 11 Ground of RWH	0 0 Not applical	0.2 5 ble ble ble	0	0	0.8	0.8	
Require ment  Domestic  Industrial Process	0 0	Level of the (water table: Size and no (tank(s) and Quantity: Location of tank(s): Quantity of r	1 11 Ground of RWH he RWH	0 0 Not applical Not applical	0.2 5 ble ble ble	0	0	0.8	0.8	
Require ment  Domestic  Industrial Process  34.Rain V Harvestin	0 0	Level of the (water table: Size and no (tank(s) and Quantity: Location of tank(s): Quantity of rpits:	1 11 Ground of RWH he RWH echarge rge pits	0 0 Not applical Not applical Not applical	0.2 5 ble ble ble ble ble	0	0	0.8	0.8	
Require ment  Domestic  Industrial Process  34.Rain V Harvestin	0 0	Level of the (water table: Size and no (tank(s) and Quantity: Location of tank(s): Quantity of rpits: Size of recha: Budgetary al	1 11 Ground Of RWH he RWH echarge rge pits location ):	0  Not applical  Not applical  Not applical  Not applical	0.2 5 ble ble ble ble ble ble	0	0	0.8	0.8	
Require ment  Domestic  Industrial Process  34.Rain V Harvestin	0 0	Level of the (water table: Size and no (tank(s) and Quantity: Location of tank(s): Quantity of rpits: Size of rechation: Budgetary al (Capital cost	1 11 Ground of RWH he RWH echarge rge pits location :	0 0 Not applical Not applical Not applical Not applical Not applical	o.2 5 ble ble ble ble ble ble ble ble	0	0	0.8	0.8	



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(Chairman SEAC-I)

2 C	Natural water drainage pattern:	Not applicable
35.Storm water drainage	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
	Sewage generation in KLD:	0.8 CMD
	STP technology:	Not applicable. Sewage will be treated in proposed CETP.
Sewage and	Capacity of STP (CMD):	Not applicable
Waste water	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable
	36.Solie	d waste Management
Waste generation in	Waste generation:	Minor quantity of debris will be generate.
the Pre Construction and Construction phase:	Disposal of the construction waste debris:	Construction waste debris will be disposed off as per norms.
	Dry waste:	Boiler Ash: 0.500 MT/Day, Empty Containers (MS/Fibre Drums/Glass Bottles etc.): 100 Nos /Annum, Empty containers/ HDPE drums: 400 Nos./ Annum, HDPE bags: 10 MT / Annum, Paper waste: 1 MT/Annum
	Wet waste:	
Waste generation	Hazardous waste:	Chemical sludge: 365 T/Annum, Spent Carbon: 5 T/Annum
in the operation Phase:	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
	Dry waste:	Boiler Ash: Landfill / brick manufacturer, Empty Containers (MS/Fibre Drums/Glass Bottles etc.): After decontamination Sold to scrap dealers, Empty Containers HDPE Drums: After decontamination Sold to scrap dealers., HDPE bags.: After decontamination Sold to scrap dealers, paper waste: Sold to scrap dealers
	Wet waste:	
Mode of Disposal of waste:	Hazardous waste:	Chemical sludge: For landfill to approved CHWTSDF site, Spent Carbon: For landfill to approved CHWTSDF site
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
	Location(s):	As per requirement
Area requirement:	Area for the storage of waste & other material:	As per requirememt
	Area for machinery:	



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**Budgetary allocation Capital cost:** Details will be given in EIA report (Capital cost and O & M cost: Details will be given in EIA report O&M cost):

#### **37.Effluent Charecterestics**

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	рН			6-9	6-9
2	Total Suspended Solids	mg/L	130	100	100
3	Bio-Chemical Oxygen Demand (B.O.D)3 days	mg/L	NA	100	100
4	Chemical Oxygen Demand (C.O.D)	mg/L	800-1200	250	250
5	Chlorides	mg/L	600-900	1000	1000
6	Sulphates	mg/L	85 to 100	1000	1000
7	Oil & Grease	mg/L	<10	10	10
8	Phosphates asPO4	mg/L	20 to 50	Not Specified	Not Specified
9	Copper as Cu	mg/L	10 to 12	3	3
10	Tin	mg/L	2 to 5	Not Specified	Not Specified
11	Cadmium	mg/L	Traces	Not Specified	Not Specified
12	Silver	mg/L	Traces	Not Specified	Not Specified
13	Aluminum	mg/L	1 to 5	Not Specified	Not Specified
14	Chromium	mg/L	50 to 130	2	2
15	Cyanide	mg/L	5 to 10	Not Specified	Not Specified
16	Iron	mg/L	40 to 50	3	3
17	Zinc	mg/L	70 to 100	15	15
18	Nickel	mg/L	15 to 20	Not Specified	Not Specified
19	Total Dissolved Solids (TDS)	mg/L	2200 to 2500	2100	2100
Amount of offluent generation					

Amount of effluent generation (CMD):

500

Capacity of the ETP:

500 cmd

Amount of treated effluent recycled:

partly recycle

Amount of water send to the CETP:

Not applicable.

Membership of CETP (if require):

Not applicable. Proposed project is establishment of CETP.

Note on ETP technology to be used

pH correction > Chromium & Cyanide treatment > Neutralization > Common equalization > Flocculator > Primary clarifier > Pressure Sand filter > Activated carbon filter > UF system > RO system > MEE system > ATFD system

Disposal of the ETP sludge

To CHWTSDF

#### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from wastewater treatment	35.3	TPA	0	365	365	For Landfill to CHWTSDF
2	Spent carbon	36.2	TPA	0	5	5	For Landfill to CHWTSDF

#### 39.Stacks emission Details



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Serial Number	Section	& units	F		ed with ntity	Stacl	ς No.	Height from ground level (m)	Inter diam (m	eter	Temp. of Exhaust Gases
1		ler of 1500 arg steam)	Brio	quette	~ 6 T/day	1		as per norms	as p		as per norms
2	DG set	100 KVA	HSI	) ~ 22	Litres / hr	2	2	as per norms	as p nor		as per norms
			4	0.De	tails of F	uel	to b	e used			
Serial Number	Туг	e of Fuel			Existing			Proposed			Total
1	В	riquette			0			6 TPD			6 TPD
2		HSD			0			22 Litres / hı	ſ		22 Litres / hr
41.Source	of Fuel			From	nearby sour	ce					70
42.Mode of	Transportat	tion of fuel to	site	By ro	ad					A	
											<b>Y</b>
		Total RG a	rea :		As per MID	C norr	ns				
		No of trees	s to b	to be cut Not applicable				2	10		
43.Gree	n Belt	Number of trees to be planted :			As per green belt area						
Develop	ment	List of proposed native trees :			Details will	be giv	en in	EIA report			
		Timeline f completion plantation	on of As per pro			ect imp	olemei	ntation planr	ning		
	44.Nu	mber and	l list	of t	rees spe	cies	to b	e plante	d in t	he g	jround
Serial Number	Name of	the plant	Co	ommo	n Name	Quantity		ntity	Characteristics & ecological importance		
1				<u> </u>							
45	.Total qua	ntity of plar	nts on	grou	nd						
46.Nun	nber and	list of sl	nrub	s an	d bushes	spe	cies	to be pla	anted	l in	the podium RG:
Serial Number	Nama				C/C Distance			Area m2		m2	
1										_	-
47.Energy											

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		Source of supply:	power	from MSED	CL				
		During Co Phase: (De Load)	nstruction emand	200 KVA					
		DG set as back-up d constructi	uring	DG set: 100	KVA				
During Operation phase (Connected load):				200 KVA					
Pov require		During Op phase (Der load):		200 KVA					
		Transform	er:	Not applica	ble				
		DG set as back-up doperation	uring	DG set: 100	KVA				10
		Fuel used:		HSD ~ 22 L	Litres /	hr			
		Details of tension lin through thany:	ne passing	Not applica	ble		1		
		48.Ene	ergy savi	ng by noi	n-coi	vention	al m	etho	od:
Details will	be given in l								
		4	9.Detail	calculati	ons	% of sa	aving	g:	
Serial Number	Е	nergy Cons	ervation Mo	easures Saving %			aving %		
1				<u> </u>					
		50	.Details	of polluti	ion c	ontrol S	yste	ms	
Source	Ex	isting pollu	tion contro	ol system		Proposed to be installed			
Air pollution		Not	applicable	Adequate stack height					
Water pollution		Not	applicable	ETP, UF system, RO system, MEE system, ATFD system				· .	
Hazardous waste generation	7	Not	applicable	disposal to CHWTSDF					
Budgetary		Capital co	st:	Details will be given in EIA report					
(Capital O&M	cost and cost):	O & M cos	t:	Details will be given in EIA report.					
51	.Enviro	onment	tal Mar	nageme	nt p	olan Bu	ıdg	eta	ry Allocation
		a)	Construc	ction pha	se (v	vith Bre	ak-u	p):	
Serial Number	Attril	butes	Parai	meter		Total (	Cost p	er an	num (Rs. In Lacs)
1		be given in eport		be given in report		Deta	ils will	l be gi	ven in EIA report
		b	) Operat	ion Phas	e (wi	th Breal	k-up	):	
Serial Number	Comp	onent	Descr	iption	Capi	tal cost Rs Lacs	. In	Ope	rational and Maintenance cost (Rs. in Lacs/yr)
Abhay Pimparkar (Secretary SEAC Meeting SEAC-I)			No: 152nd (L e: June 13, 2		Meeting	١ ،	ge 30 of 81	Signature:  Name: Dr. Umakant Ganpetrao Dangat  Dr. Umakant Dangat  (Chairman SEAC-I)	

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

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

#### **52.**Any Other Information

N	0	Information	ı Available	
---	---	-------------	-------------	--

	Nos. of the junction to the main road & design of confluence:	Not applicable
	Number and area of basement:	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	As per MIDC norms
	Area per car:	Not applicable
	Area per car:	Not applicable
Parking details:	Number of 2- Wheelers as approved by competent authority:	Not applicable
	Number of 4- Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	Min 6 m
GY	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	7 (h)
	Court cases pending if any	Not applicable

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Other Relevant Informations	Proposed project is establishment of Common effluent treatment plant within MIDC area. The total capacity of CETP is 500 cmd.
Have you previously submitted Application online on MOEF Website.	Yes
Date of online submission	04-07-2017
SEAC DISCUSSION	ON ENVIDONMENTAL ASDECTS

#### SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

SLAC	DISCUSSION ON ENVIRONMENTAL ASTECTS
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
<b>Energy Management</b>	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

#### **DECISION OF SEAC**

PP remained absent for the meeting.

**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

apropries Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018

Name: Dr. Umakant Gangatrao Dangat Page 32 | Dr. Umakant Dangat (Chairman SEAC-I)

## 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

Subject: Environment Clearance for Environmental Clearance for proposed storage & handling of dangerous cargos

Is a Violation Case: No.

Is a Violation Case: No					
1.Name of Project	APM Terminals India Pvt. Ltd.				
2.Type of institution	Private				
3.Name of Project Proponent	Mr Supratim Ganguly, Business Unit Head				
4.Name of Consultant	Ultra-Tech Environmet Consultancy & Laboratory				
5.Type of project	Industrial Projectfor proposed storage & handling of dangerous cargos				
6.New project/expansion in existing project/modernization/diversification in existing project					
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA				
8.Location of the project	Plot No. D-223/5, PH II, MIDC Chakan				
9.Taluka	Khed				
10.Village	Bhamboli				
Correspondence Name:	Mr Supratim Ganguly, Business Unit Head				
Room Number:	NA				
Floor:	11				
Building Name:	Urmi Estate,				
Road/Street Name:	Ganapatrao Kadam Marg				
Locality:	-				
City:	Mumbai				
11.Area of the project	MIDC, Chakan				
	MIDC, Chakan Sanction obtained				
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: MIDC Sanction No. : C88810 of 16 dated 06/09/2016				
	Approved Built-up Area: 15101.87				
13.Note on the initiated work (If applicable)	Construction of ware house which is less than 1,50,000m2 is completed.				
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA				
15.Total Plot Area (sq. m.)	50,000.00				
16.Deductions	Not applicable				
17.Net Plot area	50,000.00				
10 (a) Proposed P. Vis.	a) FSI area (sq. m.): Not applicable				
18 (a).Proposed Built-up Area (FSI & Non-FSI)	b) Non FSI area (sq. m.): Not applicable				
	c) Total BUA area (sq. m.): 10517.43				
	Approved FSI area (sq. m.):				
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.):				
	Date of Approval:				
19.Total ground coverage (m2)	20.63 %				
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable				
21.Estimated cost of the project	460600000				
22 Num	har of huildings & its configuration				

22. Number of buildings & its configuration

appropriately Abhay Pimparkar (Secretary SEAC-I)

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Serial number	Building Name & number		Number of floors	Height of the building (Mtrs)			
1	Ware House		G	13.20			
2	Office Building		G+1	9.90			
3	E	nergy Building	G	4.97			
4		Gate House	G+1	10.20			
5		MNR shed	G	8.0			
6		Canteen	G+1	9.20			
7	Elec	tric Meter Room	G	6.00			
23.Number tenants an		Not applicable					
24.Number of expected residents / users		200 Nos.					
25.Tenant density per hectare Not applicable							
26.Height building(s)							
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)  15 m MIDC road from Chakan MIDC Fire Station. Approx. 11 km			l km				
28.Turning for easy ac fire tender movement around the excluding to for the plat	from all building the width	minimum 6.0m					
29.Existing structure (		Construction of Ware House, Office Building ,Energy Building ,Gate House, MNR Shed ,Canteen , Electric Meter Room					
30.Details demolition disposal (I applicable)	with f	Not Applicable					

## 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)	
1	Open Yard- Class-2 and its subclass (gases)UN Hazard Classes	0	315 T Maximum storage	315 T Maximum storage	
2	Open Yard-Class-3 and its subclass (flammable liquids)UN Hazard Classes	0	315 T Maximum storage	315 T Maximum storage	
3	Open Yard-Class-4 and its subclass (flammable solids)UN Hazard Classes	0	50 T Maximum storage	50 T Maximum storage	

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4	Open Yard-Class-5 and its subclass (oxides &peroxides)UN Hazard Classes	0	50 T Maximum storage	50 T Maximum storage		
5	Open Yard-Class-6 and its subclass (Toxic)UN Hazard Classes	0	215 T Maximum storage	215 T Maximum storage		
6	Open Yard-Class-8 (corrosives)UN Hazard Classes	0	315 T Maximum storage	315 T Maximum storage		
7	Open Yard-Class-9 and its subclass (Miscellaneous)UN Hazard Classes	0	315 T Maximum storage	315 T Maximum storage		
8	Ware House: Class-2 and its subclass (gases)Hazard Classes	0	100 T Maximum storage	100 T Maximum storage		
9	Ware House: Class-3 and its subclass (flammable liquids)Hazard Classes	0	3500 T Maximum storage	3500 T Maximum storage		
10	Ware House: Class-4 and its subclass (flammable solids)Hazard Classes	0	300 T Maximum storage	300 T Maximum storage		
11	Ware House: Class-5 and its subclass (oxides & peroxides)Hazard Classes	0	500 T Maximum storage	500 T Maximum storage		
12	Ware House: Class-6 and its subclass (Toxic)Hazard Classes	0	6000 T Maximum storage	6000 T Maximum storage		
13	Ware House: Class-8 (corrosives)Hazard Classes	0	500 T Maximum storage	500 T Maximum storage		
14	Ware House: Class-9 and its subclass (Miscellaneous)Hazard Classes	0	1100 T Maximum storage	1100 T Maximum storage		
32.Total Water Requirement						



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	Source of water	MIDC, Chakan				
	Fresh water (CMD):	3 6 + Vessel Washing : 3.0 = 6.6				
Dry season:	Recycled water - Flushing (CMD):	4.5				
	Recycled water - Gardening (CMD):	1.8				
	Swimming pool make up (Cum):	Not applicable				
	Total Water Requirement (CMD)	12.9				
	Fire fighting - Underground water tank(CMD):	300				
	Fire fighting - Overhead water tank(CMD):	Not required; since pumps maintain positive pressure in fire hydrant at all times				
	Excess treated water	Soak pit				
	Source of water	MIDC, Chakan				
	Fresh water (CMD):	3 6 + Vessel Washing : 3.0 = 6.6				
	Recycled water - Flushing (CMD):	4.5				
Wet season:	Recycled water - Gardening (CMD):	1.8				
	Swimming pool make up (Cum):	Not applicable				
	Total Water Requirement (CMD) :	12.9				
	Fire fighting - Underground water tank(CMD):	300				
	Fire fighting - Overhead water tank(CMD):	Not required; since pumps maintain positive pressure in fire hydrant at all times				
	Excess treated water	Soak pit				
Details of Swimming pool (If any)	NA					

33.Details of Total water consumed

Particula rs	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Require ment	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	4.5	0	4.5	0	0	0	4.5	0	4.5
Fresh water requireme nt	3.6	0	3.6	0.6	0	0.6	3.0	0	3.0
Gardening	1.8	0	1.8	0	1.8	1.8	3.0	0	3.0
Industrial Process	3.0	0	3.0	0	0	0	3.0	0	3.0

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	Level of the Ground water table:	12 m below ground level				
	Size and no of RWH tank(s) and Quantity:	NA				
	Location of the RWH tank(s):	NA				
34.Rain Water Harvesting	Quantity of recharge pits:	NA				
(RWH)	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	Natural water drainage pattern:	From West to East				
drainage	Quantity of storm water:	0.3 m3/sec.				
	Size of SWD:	600 mm (W) x 1400 (D) mm				
	Sewage generation in KLD:	6.3				
	STP technology:	Sewage : Extended Aeration ETP : Conventional - Primary & Tertairy				
Sewage and	Capacity of STP (CMD):	6.5 KLD				
Waste water	Location & area of the STP:	as per the layout				
	Budgetary allocation (Capital cost):	Rs. 9.92 Lakhs				
	Budgetary allocation (O & M cost):	Rs. 2.50 Lakhs/Annum				
		d waste Management				
Waste generation in the Pre Construction	Waste generation:	NA				
and Construction phase:	Disposal of the construction waste debris:	NA				
	Dry waste:	600 kg/day				
	Wet waste:	100 kg/day				
Waste generation	Hazardous waste:	Category No. 34.3 Oil Water Sludge - generated from cleaning of storage tanks once in 5 years : 6.0 MT per year (approx)				
in the operation Phase:	Biomedical waste (If applicable):	NA				
	STP Sludge (Dry sludge):	0.5 kg/day				
	Others if any:	E-waste : Negligible				



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		Dry waste:		Will be disp	osed off from	n site throug	ıh external a	gency on daily basis.		
Wet waste:		Will be disposed off from site through external agency on daily basis.  Shall be treated taken away by the canteen contractor.								
Hazardous			CHWTSDF/ MPCB Authorized Recyclers							
Mode of	Disposal	Biomedica			- 11 JD Hutil	111111111111111111111111111111111111111				
of waste:		applicable		NA						
		STP Sludg sludge):	e (Dry	Will be used	d as manure	for landscap	ing			
		Others if a	ny:	E waste : Will be handed over to authorized E-waste handeling agency.						
		Location(s	):	As per the s	services layo	ut.				
Area requirem	ent:	Area for the of waste & material:		04 nos of 55	50 ltr garbag	ge bins kept i	in designated	d place		
		Area for m	achinery:	NA						
Budgetary		Capital cos	st:	NA						
(Capital co O&M cost)		O & M cos	t:	NA						
			37.Ef	fluent Cl	harecter	estics	0	7		
Serial Number	Paran	neters	Unit	Inlet E Charect	ffluent erestics		Effluent cerestics	Effluent discharge standards (MPCB)		
1	p	Н			7	7		5.5-9		
2	CO	OD	mg/l	70		50		70 50		250
3	ВС	OD	mg/l	2	0	10		100		
4	TS	SS	mg/l	250		50		100		
5	TI	OS	mg/l	30	00	110		2100		
6	oil & (	Grease	mg/l		Ō		5	10		
Amount of e (CMD):	effluent gene	eration	3.0 CMD							
Capacity of	the ETP:		3.0 CMD	) CMD						
Amount of t recycled:	reated efflue	ent	100% recyc	eled						
Amount of v	vater send to	o the CETP:	NA							
Membership	o of CETP (if	frequire):	NA							
Note on ETI	P technology	to be used	Convention	ventional						
Disposal of	the ETP sluc	lge	6.0 MT per	MT per year (approx)						
	7		38.Ha	zardous	Waste D	etails				
Serial Number	Descr	iption	Cat	UOM	Existing	Proposed	Total	Method of Disposal		
1	Sper	nt oil	5.1	Lit	Lit NA		270 ml/day/DG set	Will be handed over to authorised vendor		
2	cleaning	Sludge – ed from of storage aks	34.3			Once in 5 years: 6.0 MT per year (approx)	Once in 5 years : 6.0 MT per year (approx)	CHWTSDF		
	39.Stacks emission Details									

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Serial Number		& units	Quar		ntity	Stack		Height from ground level (m)	Interdiame (m)	eter )	Temp. of Exhaust Gases
1	DG	set			t/hr/DG set	1 No		13.7	0.1	7	600 deg. C
			4	0.De	tails of F	uel to	o be	e used			
Serial Number	Туг	oe of Fuel			Existing			Proposed			Total
1		Diesel			0		40	lit/hr/ - DG s	set		40lit/hr
41.Source	of Fuel			Autho	orized Vendo	ors					
42.Mode of	Transportat	ion of fuel to	site	By Ro	oad						
		Total DC a			388.50						
		Total RG a		e cut							
		:			Nil						
43.Gree		Number of be planted		s to	252 Nos.					7	<b>Y</b>
Develop	ment	List of pro		l	Ashoka			2			
	Timeline for completion of plantation :			Till the completion of the project, 173 nos. already planted.							
44.Number and list of trees species to be planted in the ground											
Serial Number	Name of	the plant	C	ommo	n Name		Quantity		Characteristics & ecological importance		
1			Gulmohar		75		decidifoliag for its Beca aggingood t the ar	uous  Je. Th  shade  use of  ressive  cree to  rid an	e sized fast growing, tree and light feathery the tree is mainly grown the and ornamental value. If its hardy nature and the root system, it is a to control soil erosion in the description of the soil of the so		
2		temon olatus			l bottle brush		3	0	eventu Very work arra hang G range sc Borde	ually of wide d including some some some some some some some some	m sized tree that will grow to around 8 m tall. Ity planted all over the luding India. They are d spirally along loose tems. Very adaptable. In a wide climatic d for making bonsai, for ng, for Hedges and Attracts birds Attracts s, Attracts bees Salt or alinity tolerant
3	Polyalthia	longifolia,	ia, Ashok		oka		1	7	tree, of effect pollut pyra weepi long nound	tivener tion. I mida ing per arrow	dia, is a lofty evergreen nonly planted due to its ess in alleviating noise It exhibits symmetrical I growth with willowy endulous branches and valanceolate leaves with margins. The tree is row over 30 ft in height.

agretains Abhay Pimparkar (Secretary SEAC-I)

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4		phorbe Bottle		e Palm	130		Bottle palm has a large swollen trunk. Bottle palm has only four to six leaves open at any time. The flowers of the palm arise from under the crownshaft.	
5	TO	TAL	TO	TAL	25	52		
45	.Total qua	ntity of plants o	n grou	nd				
46.Num	ber and	l list of shru	bs an	d bushes	species	to be pl	anted in the podium RG:	
Serial Number		Name		C/C Dista	nce		Area m2	
1		NA		NA			NA	
47.Energy								
	Source of power supply:		MSEDCL					
		During Constru Phase: (Deman Load)		NA				
		DG set as Powe back-up during construction p	J	1 No. of 500kVA Mobile DG				
D.		During Operation phase (Connection):		686 KW				
requirement: pha		During Operation phase (Demand load):		500 KVA				
		Transformer:		1 no. 500 k	VA			
		DG set as Powe back-up during operation phas	ſ	1 no. 500 kVA				
		Fuel used:	43	HSD				
		Details of high						

#### 48. Energy saving by non-conventional method:

NA

- 1. LED Light are considered.
- 2. Occupancy Sensor for Server area and toilet areas

tension line passing through the plot if

## 49.Detail calculations & % of saving:

Serial Number	<b>Energy Conservation Measures</b>	Saving %
1	LED lights in Wire Rope	12 %
2	Occupancy Sensor in Server and Toilet area	1 %

#### 50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	-	STP of capacity 6.5 m3
DG Set		1 Nos. of Stacks 500 KVA of DG Set with height 08 Mt



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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
2	NA	NA	NA

#### b) Operation Phase (with Break-up):

		· •	`	<u></u>
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, Effluent from ETP		3.62
2	Water	STP/ETP	24.42	6.48
3	Energy	Solar PV Cells / Streetlight/Wire rope LED light	100.00	8.00
4	Land Environment	Gardening	0.00	2.52
5	Solidf Waste	Solid waste management	1.60	2.52
6	TOTAL		126.02	23.14

# 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	Consumpti on / Month in MT	Source of Supply	Means of transportatio n
Open Yard: Class-2 and its subclass (gases)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	315 T Maximum storage	315 T Maximum storage	Nil	Import and domestic manufacture of cargos which send for storage at our premises	By Road / By Rail
Class-3 and its subclass (flammable liquids)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	315 T Maximum storage	315 T Maximum storage	Nil	Same as above	Same as above
Class-4 and its subclass (flammable solids)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous clas	50 T Maximum storage	50 T Maximum storage	Nil	Same as above	Same as above
Class-5 and its subclass (oxides & peroxides)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	50 T Maximum storage	50 T Maximum storage	Nil	Same as above	Same as above

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Class-6 and its subclass (Toxic)UN Hazard Classes Classes	Proposed	open yard storage - proposed quantities of dangerous class	215 T Maximum storage	215 T Maximum storage	Nil	Same as above	Same as above
Class-8 (corrosives)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	315 T Maximum storage	315 T Maximum storage	Nil	Same as above	Same as above
Class-9 and its subclass (Miscellaneous)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	315 T Maximum storage	315 T Maximum storage	Nil	Same as above	Same as above
Ware House: Class-2 and its subclass (gases) HazardClasses	Proposed	warehouse storage - proposed quantities of dangerous clas	100 T Maximum	100 T Maximum	Nil	Same as above	Same as above
Class-3 and its subclass (flammable liquids) HazardClasse	Proposed	warehouse storage - proposed quantities of dangerous class	3500 T Maximum storage	3500 T Maximum storage	Nil	Same as above	Same as above
Class-4 and its subclass (flammable solids) HazardClasses	Proposeds	warehouse storage - proposed quantities of dangerous class	300 T Maximum storage	300 T Maximum storage	Nil	Same as above	Same as above
Class-5 and its subclass (oxides & peroxides) Hazard Classes	Proposed	warehouse storage - proposed quantities of dangerous class	500 T Maximum storage	500 T Maximum storage	Nil	Same as above	Same as above
Class-6 and its subclass (Toxic) HazardClasses	Proposed	warehouse storage - proposed quantities of dangerous class	6000 T Maximum storage	6000 T Maximum storage	Nil	Same as above	Same as above
Class-8 (corrosives) HazardClasses	Proposed	warehouse storage - proposed quantities of dangerous class	6000 T Maximum storage	6000 T Maximum storage	Nil	Same as above	Same as above
Class-9 and its subclass (Miscellaneous) HazardClasses	Proposed	warehouse storage - proposed quantities of dangerous class	1100 T Maximum storage	1100 T Maximum storage	Nil	Same as above	Same as above

## **52.Any Other Information**

No Information Available

### 53.Traffic Management

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

1



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	Number and area of basement:	NA			
	Number and area of podia:	NA			
	Total Parking area:	As per requirment			
	Area per car:	As per requirment			
	Area per car:	As per requirment			
Parking details:	Number of 2- Wheelers as approved by competent authority:	12 sq. ft per vehicle			
	Number of 4- Wheelers as approved by competent authority:	11			
	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	6 (b)			
	Court cases pending if any	No			
Notification sheet  Court cases pending if any  No					

Though we receive quite a few dangerous cargos as per MSIHC Rules. but there are substantial dangerous cargos that are outside the MSIHC too. Moreover, all of the dangerous cargos that we receive are not described and don't have their correct technical names mentioned or communicated anywhere in form of any documents to us. The identification of these dangerous cargo happens only when it comes physically to us at our site. The identification happens by UN classification stickers that are put up on 3 sides of container and after the physical examination done by the Custom's. Keeping all of these in mind, we hereby kindly plead to let us store & segregate the dangerous cargos as per UN classification of hazards as well as IMDG- International Maritime Dangerous Goods code (MSC.1/Circ.1216 of 26 February 2007 titled "Revised recommendations on the safe transport of dangerous cargoes and related activities in port areas".). All the applicable Indian and its related state laws shall be abiding for us. Classes of dangerous goods: 1) Class-2 and its subclass (gases): eg.-Helium, R134a, R410A, Butane, Propane etc. 2) Class-3 and its subclass (flammable liquids): eq-Isopropanol,

#### Other Relevant Informations

- 2) Class-3 and its subclass (flammable liquids): eg- Isopropanol, Methanol, MIBK, Toluene, LAB, Acetone / acetone oils, Adhesives, Paints, lacquers, varnishes etc.
- 3) Class-4 and its subclass (flammable solids): eg.- Phosphorus, Sulphur
- 4) Class-5 and its subclass (oxides & peroxides): eg.- Potassium nitrate, Aluminium nitrate etc.
- 5) Class-6 and its subclass (Toxic and Infectious): eg.- Epichlohydrine, MDI, TDI etc.
- 6) Class-8 (corrosives) eg.- Acetic, acid, Carbolic acid, phenol, Hydrogen fluoride, Iodine, Morpholine
- 7) Class-9 and its subclass (Miscellaneous): eg.- Polychlorinated biphenyls, Polychlorinated terphenyls, Dibromodifluoromethane, Benzaldehyde etc.

Have you previously submitted Application online on MOEF Website

No

Date of online submission

## **TOR Suggested Changes**

Consolidated Statement Point Number	Original Remarks	Submitted Changes
32. Total Water Requirement	DRY SEASON:Fresh water (CMD)=3.6 + vessel washing=3.0 Total =6.6	DRY SEASON: Fresh water (CMD)=3.9 (Domestic) + 2 (Gardening) + 5.2 (Flushing) = 11.1
32. Total Water Requirement	Recycled water Flushing (CMD)=4.5	Recycled water Flushing (CMD)=5.2 (from fresh water)
32. Total Water Requirement	Recycled water Gardening (CMD)=1.8	Recycled water Gardening (CMD)=10 (from fresh water = 2 CMD, From recycle = 8 CMD)
32. Total Water Requirement	Total Water Requirment (CMD)=12.9	Total Water Requirement (CMD)=19.21
32. Total Water Requirement	WET SEASON: Fresh water (CMD)=3.6 + vessel washing=3.0 Total =6.6	Fresh water (CMD)=3.9 Domestic
32. Total Water Requirement	Recycled water Flushing (CMD)=4.5	Recycled water Flushing (CMD)=5.2
32. Total Water Requirement	Recycled water Gardening (CMD)=1.8	Recycled water Gardening (CMD)=0

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		-
32. Total Water Requirement	Total Water Requirment (CMD)=12.9	Total Water Requirement (CMD)=9.1
32. Total Water Requirement	Excess treated water=to soak pit	Excess treated water=2.8 to soak pit
33. Details of Total water consumed	Consumption:(CMD) Domestic- Existing=4.5,Proposed=0, Total= 4.5 Fresh water ReqtExisting=3.6,Proposed=0, Total= 3.6 Gardening:- Existing=1.8,Proposed=0, Total=1.8 Industrial Process:- Existing=3.0,Proposed=0, Total=3.0	Consumption:(CMD) Domestic- Existing=0,Proposed=3.9, Total=3.9 Fresh water ReqtExisting=0,Proposed=5.2, Total= 5.2 Gardening:- Existing=0,Proposed=10, Total=10 Industrial Process:-NA
33. Details of Total water consumed	Loss:(CMD) Domestic-Existing=0,Proposed=0,	Loss:(CMD) Domestic- Existing=0,Proposed=0.5, Total= 0.5 Fresh water ReqtExisting=0,Proposed=0, Total= 0 Gardening:- Existing=0,Proposed=10, Total=10 Industrila Process:-NA
33. Details of Total water consumed	Effluent:(CMD) Domestic- Existing=4.5,Proposed=0, Total= 4.5 Fresh water ReqtExisting=3.0,Proposed=0, Total= 3.0 Gardening:- Existing=3.0,Proposed=0, Total=3.0 Industrial Process:- Existing=3.0,Proposed=0, Total=3.0	Effluent:(CMD) Domestic- Existing=0,Proposed=3.4, Total= 3.4 Fresh water ReqtExisting=0,Proposed=5.2, Total= 5.2 Gardening:- Existing=0,Proposed=0, Total=0 Industrial Process:-NA
36. Sewage and waste water	Sewage generation in KLD =6.3	Sewage generation in KLD =8.5
36. Sewage and waste water	STP Technology= Sewage: Extented Aeration ETP: Conventional- Primary & Tertiary	STP Technology=MBBR-( Airobix STP)
37. Solid Waste Management	Dry waste: 600 kg/day Wet waste: 100 kg/day	Dry waste: 5 kg/day Wet waste: 5 kg/day
37. Solid Waste Management:waste generation in operation phase	Hazardous waste: Category No. 3.4, oil water sludge- generation from cleaning of storage tanks once in 5 year: 6.0 T per year (approx)	Hazardous waste: Category No. 3.4, oil water sludge- generation from cleaning of storage tanks once in 5 year: 6.0 T per year (approx) and Spent oil 270 ml/d/DG
37. Solid Waste Management:waste generation in operation phase	other if any: E waste:Negligible	other if any: E waste:NA
37. Solid Waste Management:waste generation in operation phase	Mode of Disposal of waste:Wet waste: shall be treated taken away by the canteen contractor	Mode of Disposal of waste:Handed over to Authorized Vendor
38. Effluent Characteristics	Amount of Effluent generation(CMD):3	Amount of Effluent generation(CMD):NA
38. Effluent Characteristics	Capacity of ETP (CMD):3	Capacity of ETP (CMD):NA
38. Effluent Characteristics	Amount of treated effluent recycled:100 %	Amount of treated effluent recycled:NA
38. Effluent Characteristics	Note on ETP technology to be used:100%Conventional	NA
38. Effluent Characteristics	Disposal of ETP Sludge:6.0 MT per year (Approx)	NA
44. Green Belt Development	Total RG Area:388.5	Total RG Area:Green belt (From Suyog Logistics 6700 m2 + from MIDC 6500 m2)= 16500
44. Green Belt Development	Number of trees to be planted:252	Number of trees to be planted:1200





44. Green Belt Development	List of proposed Native trees: Ashoka	List of proposed Native trees:given below					
45.Number and list of trees species to be planted in the ground	Total No. of tress =252 Nos. 1) Delonix Regia (Gulmohor) =75 2)Callistemon lanceolatus (Lal Bottle brush) = 30 3) Polyalthia longifolia(Ashok) =17 4) Hyophorbe lagenicaulis (Bottle Palm) = 130  Total 1200 No. of tress of different species a mentioned below: 1) Delonix Regia (Gulmohor) 2)Callistemon lanceolatus (Lal Bottle brush) Polyalthia longifolia(Ashok) 4) Hyophorbe lagenicaulis (Bottle Palm) 5) Azadirachtaindi (Neem) 6) Saracaasoca (sita Ashok) 7) Alstor scholars (Saptaparni) 8) Pongamiapinnata (Karanj) 9)Mimusopselengi (Bakul) 10) Bauhineablackeana (Apta) 11) Micheliachampaca (Champa)						
51. Details of Pollution control System	STP:Proposed to be installed: STP of capacity 6.5 m3	STP: Already installed: STP of capacity 10 m3					
52. Environment Management Plan Budgetary Allocation	b) Operation Phase (with break up) 2. Water-STP/ETP= Capital cost=Rs. 24.42 Lakhs, O&M cost= RS. 6.48 Lakhs/y 5. TOTAL: Capital cost=Rs. 126.02 Lakhs, O&M cost= RS. 23.14 Lakhs/y	b) Operation Phase (with break up) 2. Water- STP/ETP= Capital cost=Rs. 24.42 Lakhs, O&M cost= RS. 6.48 Lakhs/y 5. TOTAL: Capital cost=Rs. 126.02 Lakhs, O&M cost= RS. 23.14  b) Operation Phase (with break up) 2. Water- STP= Capital cost=Rs. 9.92 Lakhs, O&M cost= RS. 2.50 Lakhs/y 5. TOTAL: Capital cost=Rs. 111.52 Lakhs, O&M cost= RS.19.16					
54. Traffic Management	Total Parking area =As per requirement	Parking & internal roads area =13,037.57 m2					
54. Traffic Management	Area per car= As per requirement	Area per Car: 30 m2					
SEAC	DISCUSSION ON ENVIRON	IMENTAL 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						
<b>Energy Management</b>	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	Not Applicable						



environmental sustainability

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

# Brief information of the project by SEAC



SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 47 of 81 Signature:
Name: Dr. Umakant Gangetreo Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006 for expansion of existing unit. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

Based on the presentation made by PP; committee decided to approve the TOR in the 142nd meeting of SEAC held on 13.09.2017 for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

- 1. PP to collect baseline data as per Office Memorandum issued by MoEF&CC dated 29.08.2017.
- 2. PP to submit memorandum of articles document.
- 3. During deliberations it was observed that, MIDC has alloted the land to M/s SuyogLogistic Park Pvt. Ltd. for setting up of facility but now PP (M/s APM Terminals India Pvt. Ltd.) has made an agreement with M/s Suyog to use the land for their proposed activity. PP asked to submit a permission/NOC letter obtained from MIDC to use the land.
- 4. PP to submit an Emergency Preparedness Plan based on the chemicals/material expected to be stored on site.
- 5. PP to ensure to decided on the maximum retention period for the goods which are not claimed after receipt. Any deterioration of the chemical properties may lead to an unforeseen accident.
- 6. PP to include detailed water balance, methodology/mechanism of receiving the material and distribution of the material in the EIA report.
- 7. PP to submit layout showing 33% green belt, Internal road width and turning radius, location of emergency equipment, etc.
- 8. PP to submit on site/off site emergency plan.
- 9. PP to submit Quantitative Risk Assessment study report along with mitigation measures.
- 10. PP to submit design details of STP and ETP. PP to include plan for disposal of canteen waste in the EIA/EMP report.

The proposal was considered in the 149th meeting of SEAC-1 held on 03.04.2018 wherein the proposal was defefrred till submission of compliance of followin gpoints.

- 1. PP to upload list of Board of Directors.
- 2. PP to submit revised layout plan showing 33% green belt in the plot premises, internal road of six meters and turning radius of nine meters.
- 3. PP to provide wicked door near the Assembly Point No. 1.
- 4. PP to submit detailed plan and methodology so as to comply with the recommendations of the HAZOP and Risk Assessment Study.
- 5. PP to submit in detail plan ,methodology and schedule of disposal of goods if not cleared by the customer after prescribed retention period.
- 6. EIA report shows certain parameters in the surface water, ground water, noise levels which are exceeding the prescribed limits. PP to submit clarification and action plan for mitigation in this regard.
- 7. PP to submit an undertaking for not having any eco sensitive areas within the range of 5 KM of the proposed project and not attracting the applicability of general conditions in respect of category of the project.
- 8. PP to submit details about methodology of socio economic study and explain its relevance to the proposed project.
- 9. PP to verify the figures mentioned in the traffic study report against the IRC standard and explain discrepancy if any in the EIA report.
- 10. PP to prepare CSR plan in consultation with the district authorities along with time bound implementation schedule. PP to maintain separate account for CSR funds.
- 11. PP to include all above points in the EIA report and submit revised EIA report.

Now PP submitted the compliance of above points.



SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 48 of 81 Name: Dr. Umakant Gångatrao Dangat

Dr. Umakant Dangat

(Chairman SEAC-I)

#### **DECISION OF SEAC**

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

#### **Specific Conditions by SEAC:**

- 1) PP informed that they have applied to MIDC for additional space for the development of green belt. PP to submit copy of approval from MIDC.
- 2) PP to submit details of rain water harvesting.
- **3)** PP to submit detailed plan and methodology so as to comply with the recommendations of the HAZOP and Risk Assessment Study.
- **4)** EIA report shows certain parameters in the surface water, ground water, noise levels which are exceeding the prescribed limits. PP to submit clarification and action plan for mitigation in this regard.
- 5) PP to submit details about methodology of socio economic study and explain its relevance to the proposed project.
- **6)** PP to prepare CER plan in consultation with the district authorities along with time bound implementation schedule. PP to maintain separate account for CER funds.

#### FINAL RECOMMENDATION

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

Abhay Pimparkar (Secretary

SEAC-I)

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 49 of 81 Name: Dr. Umakant Gangetrao Dangat

Dr. Umakant Dangat

(Chairman SEAC-I)

#### 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

Subject: Environment Clearance for Proposed Expansion of Synthetic Organic Chemical Manufacturing Facility By Fine Organic Industries Limited at Plot No. G-1, G-1/1, Kharwai MIDC, Badlapur (East) Dist. Thane, Maharashtra

Is a Violation Case: No

Is a Violation Case: No					
1.Name of Project	Proposed Expansion of Synthetic Organic Chemical Manufacturing Facility By Fine Organic Industries Limited at Plot No. G-1, G-1/1, Kharwai MIDC, Badlapur (East) Dist. Thane, Maharashtra				
2.Type of institution	Private				
3.Name of Project Proponent	Fine Organic Industries Ltimited				
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.				
5.Type of project	Industrial project				
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion within existing manufacturing facility				
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable				
8.Location of the project	Plot No. G-1, G-1/1, Kharwai MIDC, Badlapur (East) Dist. Thane, Maharashtra				
9.Taluka	Ambarnath				
10.Village	Badalapur				
Correspondence Name:	Dr. Nilambari Daripkar				
Room Number:					
Floor:					
<b>Building Name:</b>					
Road/Street Name:					
Locality:					
City:					
11.Area of the project	MIDC Kharwai				
40.700.700.40	MIDC plot possession letter				
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: MIDC plot possession letter & approved plan				
	Approved Built-up Area: 4680.03				
13.Note on the initiated work (If applicable)	Proposed expansion project will be within existing manufacturing facility.				
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plot possession letter & approved plan				
15.Total Plot Area (sq. m.)	5849.5				
16.Deductions	Not applicable				
17.Net Plot area	Not applicable				
10 (a) Dranged Puilt up Area (ESI S.	a) FSI area (sq. m.): Not applicable				
18 (a).Proposed Built-up Area (FSI & Non-FSI)	b) Non FSI area (sq. m.): Not applicable				
	c) Total BUA area (sq. m.): 958				
10 (h) Ammeriad Duilt un avec ac nor	Approved FSI area (sq. m.): Not applicable				
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.): Not applicable				
	Date of Approval: 23-04-2018				
19.Total ground coverage (m2)	Not applicable				
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable				
21.Estimated cost of the project	34500000				

# 22. Number of buildings & its configuration

appropriately Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018

Name: Dr. Umakant Gangatrao Dangat Page 50 Dr. Umakant Dangat (Chairman SEAC-I)

Serial number	Buildin	g Name & number	Number of floors	Height of the building (Mtrs)
1		0	0	0
23.Number tenants an		Not applicable		
24.Number expected rusers		Not applicable		
25.Tenant per hectar		Not applicable		
26.Height building(s)				
27.Right of (Width of the from the notation to the proposed has been station to the from the first the fir	the road earest fire the	as per MIDC norms		00
28.Turning for easy ac fire tender movement around the excluding for the pla	from all building the width	as per MIDC norms		
29.Existing structure (		Existing facility is utilized utilities, tank farm, ware	ed for manufacturing. Existing struct ehouse, ETP	ures: Production plan, storage area,
30.Details demolition disposal (I applicable)	with f	Not applicable		

# **31.Production Details**

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)					
1	Fatty acid Esters (Glyceryl, PEG, Propylene glycol and Polyglycerol esters)	300 TPA	1,440 TPA	1,740 TPA					
2	Fatty acid amides (Oleamide/ Stearamide/ Erucamide/ Behenamide (sold in various trade names) & Finawax M	4,560 TPA	1,080 TPA	5,640 TPA					
3	Finalux G 810 (C 8 - C 10 acid) / Pelargonic Acid	480 TPA	960 TPA	1,440 TPA					
4	Finalux G 9 (Fatty acids methyl esters)	0	480 TPA	480 TPA					
5	Fatty acids Metal salts	0	840 TPA	840 TPA					
6	Aqueous ammonia (By product)	0	1,200 TPA	1,200 TPA					
	32.Total Water Requirement								

agranting Abhay Pimparkar (Secretary SEAC-I)

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Name: Dr. Umakant Gangatrao Dangat Page 51 Or. Umakant Dangat (Chairman SEAC-I)

	Source of water	MIDC
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
Dry season:	Total Water Requirement (CMD) :	80 cmd
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	<b>Excess treated water</b>	Not applicable
	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
Wet season:	Total Water Requirement (CMD):	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	<b>Excess treated water</b>	Not applicable
Details of Swimming pool (If any)	Not applicable	

## 33.Details of Total water consumed

Particula rs	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Require ment	Existing	Proposed	Total	Existing Proposed		Total	Existing	Proposed	Total	
Domestic	6	1	7	1.5	1	2.5	4.5	0	4.5	
Cooling tower & thermopa ck	48	15	63	48	14.5	62.5	0	0.5	0.5	
Industrial Process	2	3	5	0	0.5	0.5	2	2.5	4.5	
Gardening	5		5	5		5	0		0	

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 52 of 81 Signature:

Name: Dr. Umakant Gannatreo Dangat

Dr. Umakant Dangat
(Chairman SEAC-I)

	Level of the Ground water table:	
	Size and no of RWH tank(s) and Quantity:	30 cmd
	Location of the RWH tank(s):	within plot
34.Rain Water Harvesting	Quantity of recharge pits:	
(RWH)	Size of recharge pits :	
	Budgetary allocation (Capital cost) :	
	Budgetary allocation (O & M cost) :	
	Details of UGT tanks if any:	-
25 Charman	Natural water drainage pattern:	
35.Storm water drainage	Quantity of storm water:	
	Size of SWD:	
	Sewage generation in KLD:	4.5 cmd
	STP technology:	
Sewage and	Capacity of STP (CMD):	
Waste water	Location & area of the STP:	
	Budgetary allocation (Capital cost):	
	Budgetary allocation (0 & M cost):	
	36.Solie	d waste Management
Waste generation in	Waste generation:	Minor quantity of construction waste will be generate.
the Pre Construction and Construction phase:	Disposal of the construction waste debris:	Construction waste will be disposed off as per norms.
	Dry waste:	NIL
	Wet waste:	NIL
Waste generation	Hazardous waste:	Chemical sludge from waste water treatment: 150 kg/ Month
in the operation Phase:	Biomedical waste (If applicable):	
_ 11000	STP Sludge (Dry sludge):	
	Others if any:	



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

Dry waste:			Not applicable						
		Wet waste:		Not applicable					
		Hazardous		ETP sludge will be disposed off to CHWTSDF.					
Mode of i of waste:	_		Biomedical waste (If		ble				
	STP Sludg sludge):		e (Dry	Not applica	ble				
		Others if a	ny:	Not applica	ble				
		Location(s	):	within plot					
Area requirem	ient:	Area for the of waste & material:							
		Area for m	achinery:						
	allocation	Capital co	st:						
(Capital co O&M cost)		O & M cos	t:				<u> </u>		
Gari cost)	, . <u> </u>			fluent Cl	harecter	estics		<b>Y</b>	
Serial Number	Paran	neters	Unit	Inlet E	ffluent erestics	Outlet	Effluent erestics	Effluent discharge standards (MPCB)	
1	p	Н		11-	-13	6	-9	6-9	
2	Chemica dem	l oxygen land	mg/lit	7000 t	7000 to 9000		250	250	
3		al oxygen and	mg/lit	2000 to 4000		< 100		100	
4	Total suspe	nded solids	mg/lit	150 t	150 to 200		100	100	
5	Total disso	lved solids	mg/lit	700 to	1000 < 210		100	2100	
6	Oil and	grease	mg/lit	40 t	to 50 < 50		50		
Amount of 6 (CMD):	effluent gene	eration	Domestic se	ewage: 4.5 c	md, Trade ef	ffluent: 5 cm	d		
Capacity of	the ETP:		10 cmd (Co	mbined ETP	for Trade &	Domestic ef	fluent)		
Amount of trecycled:	treated efflue	ent	NIL						
Amount of v	water send to	the CETP:	9.5 cmd						
Membershi	p of CETP (if	require):	Yes. Unit is	t is already member of CETP.					
Note on ET	P technology	to be used		een chamber > Collection tank > Pre primary settling tank > Biological reactor ettling tank > Pressure sand filter > Activated carbon filter					
Disposal of	the ETP sluc	lge	To CHWTSI	OF					
	CY		38.Ha	zardous	Waste D	etails			
Serial Number	Descr	iption	Cat	UOM	Existing	Proposed	Total	Method of Disposal	
1		ludge from r treatment	35.3	Kg/ month	50	100	150	To CHWTSDF	
			39.St	acks em	ission D	etails			
Serial Number	Section	& units	Fuel Us Qua		Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	



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(Chairman SEAC-I)

1	(8 Lac I	uid heaters Kcal/hr ) ting)	lit/day OR	e oil: 2,500 Natural gas: ) kg/day)	1		35 m	0.45	138 deg. C
2	(8 Lac 1	uid heaters Kcal/hr) ting)				-	common stack of 35 m		
3	(8 Lac l	uid heaters Kcal/hr) Standby)				-	common stack of 35 m		
4		enerator ting)					common stack of 35 m		
5		enerator ting)					common stack of 35 m		
6		enerator Standby)				-	common stack of 35 m	(	
7	550 KV	A DG set	25 I	Lit/ Day	2	!	3.5 m above roof	0.15	140 deg. C
8	550 KV	A DG set	25 I	Lit/ Day	3	}	3.5 m above roof	0.15	140 deg. C
9	Proces	s stack			4	:	8 m	-	
			<b>40.D</b>	etails of F	uel	to b	e used		
Serial Number	Тур	e of Fuel		Existing			Proposed		Total
1	Fu	rnace oil		1700 Lit/ Day	1700 Lit/ Day 800 Lit/ Day				2500 Lit/ Day
2		al Gas (only i vailable)	f	3000 Kg/ Day			3000 Kg/ Day	7	3000 Kg/ Day
3		HSD		50 Lit/ Day 50 Lit/ Day					50 Lit/ Day
41.Source				n nearby sour	ce				
42.Mode of	Transportat	ion of fuel to	site By 1	road					
		<u> </u>	<u>(3)</u>				1 . 545	0 1	1
		Total RG a	<u> </u>	Green belt area within plot: 545 sq.m, Green belt area outside plot: 13,376 sq. m, Total Green belt: 13,921 sq.m					
		No of trees	to be cut	cut					
43.Gree		Number of be planted		ees to Details given in EiA report					
Develop	ment	List of pro native tree		Details give	en in E	iA rep	ort		
	Timeline for completion of plantation :		ı of	as pr project completion phase					
	44. Number and list of trees species to be planted in the ground								ground
Serial Number	Name of	the plant	Comm	on Name		Qua	ntity	Charac	cteristics & ecological importance
1	-	-					-		
45	5.Total quai	ntity of plan	its on gro	und					
46.Number and list of shrubs and bushes species to be planted in the podium RG:									

agranasis Abhay Pimparkar (Secretary SEAC-I)

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(Chairman SEAC-I)

Serial Number	Name		C/C Distance	Area m2				
1								
47.Energy								
		Source of power supply :		MSEDCL				
		During Construct Phase: (Demand Load)		from existing: 700 KVA				
		DG set as Power back-up during construction pha		2 nos. of 550 KVA DG se	et			
Doz		During Operation phase (Connected load):		from existing: 700 KVA				
Pov require	_	During Operatio phase (Demand load):	n	from existing: 700 KVA				
		Transformer:						
		DG set as Power back-up during operation phase		2 nos. of 550 KVA DG set				
		Fuel used:		HSD: 50 Lit/ Day				
		Details of high tension line pass through the plot any:		- ,00				
		48.Energy	savi	ng by non-conven	ntional method:			
Solar street	light, Solar	panel		1				
		49.De	tail	calculations & %	of saving:			
Serial Number	E	nergy Conservati	on Me	easures	Saving %			
1		-	7					
		50.Deta	ails	of pollution conti	rol Systems			
Source	Ex	isting pollution c	ontro	l system	Proposed to be installed			
Air pollution		Adequate stacl	k heig	ht				
Water pollution		Effluent treatm	ent pla	ant				
Noise pollution	7	Acoustic enclosur	e, Sile	encer				
Hazardous waste		To CHWTSDF						
Budgetary allocation Capital cost:								
(Capital O&M		O & M cost:						
51	.Enviro	onmental N	<b>I</b> ar	agement plar	n Budgetary Allocation			
a) Construction phase (with Break-up):								



Signature: Name: Dr. Umakant Gangatrao Dangat Page 56 Dr. Umakant Dangat (Chairman SEAC-I)

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

# b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Adequate stack height	3	0.5
2	Environment monitoring	1	2	0.5
3	Water pollution control	ETP	22	5.5
4	Hazardous waste disposal	Hazardous waste disposal	3	0.3
5	Green belt development		5	1,5
6	Occupational Health & safety	-	15	3
7	Social welfare & upliftment		3	90
8	Green initiative	Rain water harvesting	4	50
9	Green initiative	Solar street lights	7	80
10	Green initiative	Energy conservation (LED)	3	0.2
11	Green initiative	Natural gas system	5	0.3

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Stearic acid	Existing	within plot	50 KL	as per requirement	2520 TPA	from nearby source	By road
Oleic acid	Existing	within plot	2 nos. of 30 KL each	as per requirement	720 TPA	from nearby source	By road
Erucic acid	Existing	within plot	30 KL	as per requirement	2880 TPA	from nearby source	By road
Erucic acid	Existing	within plot	2 nos. of 150 KL	as per requirement		from nearby source	By road
Stearic acid	Existing	within plot	150 KL	as per requirement		from nearby source	By road
C8- C10 acid/ Pelargonic acid	Existing	within plot	60 KL	as per requirement	1440 TPA	from nearby source	By road
Furnace oil	Existing	within plot	30 KL	as per requirement	1560 KL/A	from nearby source	By road



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Chairman SEAC-I)

Liq. Ammonia	Proposed within plot		t	40 KL	as per requirement	2700 Nos. of cylinders	from nearby source	By road	
		<b>52.A</b>	ny Otl	her Inf	ormation				
No Information Availab	No Information Available								
		53.	Traffi	c <b>Mana</b>	gement				
Nos. of the junction to the main road & design of confluence:									
	Number basemen	and area of nt:							
	Number podia:	and area of							
	Total Pa	rking area:	702 sq.1	m					
	Area per	r car:							
	Area per	r car:							
Parking details:	Wheeler approve compete	Number of 2- Wheelers as approved by competent authority:				200			
	Number of 4- Wheelers as approved by competent authority:				20,				
	Public T	Public Transport:							
	Width of roads (n	f all Internal n):	as per N	MIDC norr	ns				
	CRZ/ RR obtain, i	RZ clearance if any:	Not applicable						
	Criticall areas / I	ed Areas / y Polluted Eco-sensitive iter-State	Not app	olicable					
4	schedule	Other Polevent							
6				olicable					
				olicable					
	Have you previously submitted Application online on MOEF Website.		Yes						
	Date of submiss		26-02-2	016					
SEAC	DISC	USSION	ON I	ENVII	RONME	NTAL AS	SPECT	'S	



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

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
<b>Energy Management</b>	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 granted ToR in the 123rd meeting of SEAC held on 11 & 12th March, 2016 under category 5(f)B1 of the EIA Notification, 2006.

Now PP submitted EIA, EMP reprot for appraisal.

PP to submit Form - 2 as per OM issued by MoEF&CC on 20.04.2018.

## **DECISION OF SEAC**



SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Signature:
Name: Dr. Umakant Gangarao Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

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

#### **Specific Conditions by SEAC:**

- 1) PP not complied with the point No. 1 of the ToR issued in 123rd meeting which reads as: There is a deficit in green belt of 33% of the unbuilt area which PP proposes to make good by acquiring adjoining land from MIDC. This to be done before finalization of EIA report. 12% of the plot area shall be provided for parking in the layout of plant premises.
- 2) PP to submit undertakign for not violating any requirements of the EIA Notification, 2006.
- **3)** PP to submit structural stability of the existing structures on site specifically for the buildign wherein the proposed expansion is to be carried out.
- **4)** PP to submit justification to accomodate proposed expansion in exisitng buildings along with relevant drawings and technical details.
- **5)** PP to look into the reaction time of 21-27 hours to reduce it further so as to conserve natural resources like energy, manhours etc.
- 6) PP to submit detailed waste water treatability study report with respect to the design of the ETP.
- 7) PP to submit details of hazardous waste generation considering contianers, drums etc. along with its storage and dispsoal mechanism.
- 8) PP to submit their comments on the parameters which are exceeding the prescribed limits in the baseline data.
- 9) PP to submit details of CER utilization as per OM dated 01.05.2018. along with timellines fo rits implementation.

#### FINAL RECOMMENDATION

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

Abhay Pimparkar (Secretary

SEAC Meeting No: 152nd (Day- 2) Meeting Date: June 13, 2018 Page 60 of 81

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

## 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

**Subject:** Environment Clearance for Establishment of Proposed Synthetic Organic Chemicals Manufacturing Facility By Vinati Organics Limited at Plot No. L-2/1, L-2/2, Additional MIDC Mahad, Dist: Raigad, Maharashtra

**Is a Violation Case:** No

Is a Violation Case: No				
1.Name of Project	Establishment of Proposed Synthetic Organic Chemicals Manufacturing Facility By Vinati Organics Limited at Plot No. L-2/1, L-2/2, Additional MIDC Mahad, Dist: Raigad, Maharashtra			
2.Type of institution	Private			
3.Name of Project Proponent	Vinati Organics Limited			
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.			
5.Type of project	Industrial project			
6.New project/expansion in existing project/modernization/diversification in existing project	New project			
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable			
8.Location of the project	Plot No. L-2/1, L-2/2, Additional MIDC Mahad, Dist: Raigad, Maharashtra			
9.Taluka	Mahad			
10.Village	Kalij village			
Correspondence Name:	Mr. Jayesh Ashar			
Room Number:				
Floor:				
Building Name:				
Road/Street Name:				
Locality:				
City:	-			
11.Area of the project	In Additional Mahad MIDC			
	Plot possession letter			
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Plot possession letter			
rippi ovar rvamber	Approved Built-up Area: 29810			
13.Note on the initiated work (If applicable)	Not applicable			
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Plot possession letter			
15.Total Plot Area (sq. m.)	100054			
16.Deductions	Not applicable			
17.Net Plot area	Not applicable			
	a) FSI area (sq. m.): Not applicable			
18 (a).Proposed Built-up Area (FSI & Non-FSI)	b) Non FSI area (sq. m.): Not applicable			
	c) Total BUA area (sq. m.): 29810			
	Approved FSI area (sq. m.): Not applicable			
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.): Not applicable			
Dek	Date of Approval: 08-05-2018			
19.Total ground coverage (m2)	43655			
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable			
21.Estimated cost of the project	554000000			
22. Number of buildings & its configuration				

appropriately Abhay Pimparkar (Secretary SEAC-I)

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Serial number	Buildin	g Name & number	Number of floors	Height of the building (Mtrs)		
1	N	Not applicable	Not applicable	Not applicable		
23.Number tenants an		Not applicable				
24.Number expected r users		Not applicable				
25.Tenant per hectar		Not applicable				
26.Height building(s)						
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)		as per MIDC norms		100		
28.Turning for easy ac fire tender movement around the excluding for the pla	ccess of from all building the width	as per MIDC norms		000		
29.Existing		Not applicable. Proposed project is new establishment.				
30.Details demolition disposal (I applicable	n with f	Not applicable				

## 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)						
1	Para Amino Phenol		36000 TPA	36000 TPA						
2	Nitrobenzene	Nitrobenzene		40000 TPA						
3	Hydrogen		3200 Nm3/hr	3200 Nm3/hr						
4	Cogen plant		14 MW	14 MW						
5	Ammonium Sulphate (By- product)		33000 TPA	33000 TPA						
6	Aniline (By- product)		3500 TPA	3500 TPA						
7	Ortho amino phenol (By- product)		900 TPA	900 TPA						

**32.Total Water Requirement** 



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	Source of water	MIDC
	Fresh water (CMD):	4025 cmd
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
Dry season:	Total Water Requirement (CMD)	4795 cmd
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Recycle water- 770 cmd
	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
Wet season:	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

Particula rs	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Require ment	Existing	Proposed	osed Total Existing Proposed Tota		Total	Existing	Proposed	Total	
Domestic		15	15		3	3		12	12
Industrial Process		45	45		25	25	-	20 + reaction water 119	20 + reaction water 119
Cooling tower & thermopa ck		4652	4652	1	4004	4004	1	648	648
Gardening		83	83		83	83		0	0

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		l of the Ground r table:						
		and no of RWH (s) and ntity:	2 x 300 cu.m					
	Loca tank	tion of the RWH (s):	within plot					
34.Rain Water Harvesting	Quar	ntity of recharge						
(RWH)	Size :	of recharge pits						
		getary allocation ital cost) :			-0-			
		getary allocation M cost) :			70			
	Deta if any	ils of UGT tanks y :						
25 Charman		ral water nage pattern:						
35.Storm water drainage	Quar wate	ntity of storm r:	-					
	Size	of SWD:						
	•							
	Sewage generation in KLD:		12 cmd					
	STP technology:		Not applicable					
Sewage and	Capacity of STP (CMD):							
Waste water	Loca the S	tion & area of STP:	>					
	Budgetary allocation (Capital cost):							
	Budgetary allocation (O & M cost):							
		36.Soli	d waste Managen	nent				
Waste generation in		e generation:	Minor quantity of construction	n waste will b	pe generate.			
the Pre Construction and Construction phase:	Disp	osal of the truction waste is:	Construction waste will be dis	posed off as	per norms.			
	Dry v	vaste:	Fly Ash: 134 TPD, Rubber, Hand gloves, PVC shoes, Tarpaulin, Hose pipes: 2 TPA, Insulating material, cladding: 1 TPA, Iron scrap, Glass, Paper, Plastic bottles etc: 5 TPA					
	Wet	waste:						
Waste generation in the operation Phase:	Haza	rdous waste:	Used/ Spent Oil: 1 KLPA, Exhaust Air or Gas cleaning residue: 2 TPA, Chemical sludge from waste water treatment and MEE salts: 2700 TPA, Discarded Drums, carboys etc: 1000 Nos/ annum, Process wastes, residues and sludge (Paint cans, brush etc): 1 TPA					
_ 111001		nedical waste (If icable):						
	STP sludg	Sludge (Dry ge):						
	Othe	rs if any:						
Abhay Pimparkar (Secretary   SEAC Meeting N		No: 152nd (Day- 2) Meeting e: June 13, 2018	Page 64 of 81	Dr. Umakant Dangat (Chairman SEAC-I)				

	Dry waste:	Non Hazardous waste will be disposed off as per norms.
	Wet waste:	
	Hazardous waste:	Hazardous waste will be disposed off as per Hazardous waste rule 2016.
Mode of Disposal of waste:	Biomedical waste (If applicable):	
	STP Sludge (Dry sludge):	
	Others if any:	
	Location(s):	within plot
Area requirement:	Area for the storage of waste & other material:	
	Area for machinery:	
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	
	O & M cost:	
	25.00	

#### 37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)			
1	рН		6 to 9	6 to 9	6 to 9			
2	COD	mg/lit	25000 to 27000	250	< 250			
3	BOD	mg/lit	7000 to 8000	100	< 100			
4	TDS	mg/lit	1000 to 1500	2100	< 2100			
5	TSS	mg/lit	100 to 200	100	< 100			
6	Oil & Grease	mg/lit	15 to 20	10	< 10			
Amount of (CMD):	effluent generation	799 cmd						
Capacity of	the ETP:	Adequate sized ETP capacity will be provided during detailing						
Amount of trecycled:	created effluent	770 cmd						
Amount of v	water send to the CETP:	29 cmd						
Membershi	Membership of CETP (if require):		-					
Note on ET	P technology to be used	High COD & TDS > Equalization tank > Neutralization tank > MEE > ATFD > Permeate to ETP, Low COD & TDS > Equalization tank > Neutralization tank > Pri. Clarifier > Aeration tank > Sec. clarifier > Disinfection tank > Pressure sand filter > Activated carbon adsorber > Ultrafiltration > Reverse osmosis						
Disposal of	the ETP sludge	ETP sludge will be sent to CHWTSDF.						

#### 38.Hazardous Waste Details

	Solitazui dods Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal	
1	Used/ Spent Oil	5.1	KLPA		1	1	CHWTSDF/ Sale to Authorized party approved by MPCB	
2	Exhaust Air or Gas cleaning residue	35.1	TPA		2	2	To CHWTSDF	
3	Chemical sludge from waste water treatment and MEE salts	35.3	TPA		2700	2700	To CHWTSDF	
4	Discarded Drums, carboys etc	33.1	Nos/ annum		1000	1000	Authorized MPCB Drum Recycler	

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5	residues a	wastes, and sludge s, brush etc)	21.1	TPA		1	1	To CHWTSDF	
			39.5	Stacks em	ission D	etails			
Serial Number	Section	& units		Fuel Used with Quantity		Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	96 TPI	H Boiler	Coal: 17	455 Kg/ Hr	1	76	3	140	
2		kcal/ Hr luid heater	Coal: 5	64 Kg/ Hr	2	30	0.55	150	
3		kcal/ Hr luid heater	Coal: 5	64 Kg/ Hr	3	30	0.55	150	
4	750 KV	A DG set	HSD: 1	50 Lit/ Hr	4	5 m above building		<u></u>	
5	750 KV	A DG set	HSD: 1	50 Lit/ Hr	5	5 m above building			
			40.D	etails of I	Tuel to b	e used	00		
Serial Number	Туј	e of Fuel		Existing		Proposed		Total	
1		Coal				446 TPD		446 TPD	
2		HSD		-				300 Lit/ Hr	
41.Source	of Fuel		fron	n nearby sour	ce				
42.Mode of	Transportat	tion of fuel to	site By r	road					
		_							
		Total RG a			area: 33,072	sq.m.			
		No of trees	to be cut						
43.Gree	n Belt	Number of be planted							
Develop	ment	List of propagities							
		Timeline for completion plantation	ı of	As per proj	ect developn	nent phase			
	44.Nu	mber and	l list of	trees spe	cies to b	e plante	d in the g	ground	
Serial Number	Name of the plant Co		Comm	on Name	Qua	ntity		eristics & ecological importance	
1	1								
45.Total quantity of plants on ground									
46.Num	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	1								
	47.Energy								

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Noise pollution    Noise pollution   Capital cost:   Capital c		Source of supply:	power	From MSEDCL			
Power requirement:    During Operation phase (Connected load):   During Operation phase (Connected load):   During Operation phase (Demand load):   Transformer:   Do set as Power back-up during operation phase:   Fuel used:   HSD		Phase: (De					
Power requirement:    Page   During Operation   Dur		back-up d	uring	2 nos. of 750 KV	/A DG set		
Transformer:  During Operation   5000 KVA	Dower	phase (Co		5000 KVA			
DG set as Power back-up during operation phase:  Fuel used:  HSD  Details of high tension line passing through the plot if any:  48.Energy saving by non-conventional method:		phase (De		5000 KVA			
Back-up during operation phase:   Fuel used:   HSD		Transform	ier:				
Details of high tension line passing through the plot if any:		back-up d	uring	2 nos. of 750 KV	/A DG set		
tension line passing through the plot if any:  48.Energy saving by non-conventional method:  49.Detail calculations & % of saving:  Serial Number  1		Fuel used:	}	HSD			
Age		tension lir through tl	ne passing	- 000			
Age		48.Ene	ergy savi	ng by non-c	onventional method:		
Serial Number   Energy Conservation Measures   Saving %			33	9 - 9			
Serial Number   Energy Conservation Measures   Saving %		4	9.Detail	calculation	s & % of saving:		
Source   Existing pollution control Systems   Proposed to be installed	Serial						
Source Existing pollution control system Proposed to be installed  Air pollution  Water pollution  Hazardous waste  Noise pollution  Capital cost:  O & M cost:   51.Environmental Management plan Budgetary Allocation  Construction phase (with Break-up):  Serial Number  Air pollution Control Systems  Proposed to be installed  For Boiler (Lime treatment, ESP, Stack), For TFH (Cyclone followed by Bag filter, stack)  FTP, RO, UF, MEE, ATFD  To CHWTSDF/ Disposal to Authorized parties  Acoustic enclosure, Silencer, PPE  Acoustic enclosure, Silencer, PPE  Total Cost per annum (Rs. In Lacs)  Total Cost per annum (Rs. In Lacs)	Number	Energy Cons	ervation M	sasures Saving %			
Source   Existing pollution control system   Proposed to be installed   Air pollution   For Boiler (Lime treatment, ESP, Stack), For TFH (Cyclone followed by Bag filter, stack)   Water pollution   ETP, RO, UF, MEE, ATFD   Hazardous waste   To CHWTSDF/ Disposal to Authorized parties   Noise pollution   Acoustic enclosure, Silencer, PPE    Budgetary allocation (Capital cost and O&M cost):     O & M cost:      51.Environmental Management plan Budgetary Allocation	1			<u> </u>			
Air pollution  Water pollution  Hazardous waste  Noise pollution  Capital cost and O&M cost:  To Chwrsner plan Budgetary Allocation  (Capital cost and O&M cost):  To Chwrsner plan Budgetary Allocation  a) Construction phase (with Break-up):  Serial Number  Air pollution  For Boiler (Lime treatment, ESP, Stack), For TFH (Cyclone followed by Bag filter, stack)  ETP, RO, UF, MEE, ATFD  To CHWTSDF/ Disposal to Authorized parties  Acoustic enclosure, Silencer, PPE		50	.Details	of pollution	control Systems		
Water pollution	Source	Existing pollu	ition contro	ol system	Proposed to be installed		
Pollution   Fife, RO, OF, MEE, ATFD	I I		6				
Noise pollution    Noise pollution   Capital cost:   Capital c			2		ETP, RO, UF, MEE, ATFD		
Pollution   Capital cost   Capital	Hazardous waste				To CHWTSDF/ Disposal to Authorized parties		
(Capital cost and O&M cost):    The stand own cost of the stand own cost of the stand own cost of the stand own cost own					Acoustic enclosure, Silencer, PPE		
O&M 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							
a) Construction phase (with Break-up):  Serial Number  Attributes Parameter Total Cost per annum (Rs. In Lacs)							
Serial Number Attributes Parameter Total Cost per annum (Rs. In Lacs)  1	51.Env	51.Environmental Management plan Budgetary Allocation					
Number Attributes Parameter Total Cost per annum (Rs. In Lacs)  1		a)	Constru	ction phase	(with Break-up):		
	Δ.	Attributes Parai		meter	Total Cost per annum (Rs. In Lacs)		
h) Operation Phase (with Break up).	1	1					
b) Operation rhase (with Dieak-up):	b) Operation Phase (with Break-up):						



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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Installation of ESP, Lime treatment, bag filters, scrubber system for process emissions, odor control, etc	2500	250
2	Water pollution control	Construction of STP, ETP, RO, MEE	500	100
3	Environment Monitoring & Management	Installation of online monitoring, analytical facilities,	50	15
4	Occupational Health & Safety	Construction of OHC and its facilities	25	10
5	Green Belt enhancement & maintenance	Plantation, irrigation, fertilizers, pesticides	20	5
6	Solid waste management	Construction of storage area for wastes, equipment's for collection and transport	5	10
7	Green initiative	Installation of LED	10	2
8	Green initiative	Installation solar lights along road, Solar bulbs	25	5
9	Green initiative	Rain water harvesting (Development of paved area, Channeling of storm water drain, Construction of ground water recharge pit, Construction of RWH tanks)	50	5

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Benzene	2 nos. each	Within plot	800 KL each	800 KL each	35,500 TPA	From nearby source	By road
Methanol	2 nos. each	Within plot	600 KL each	600 KL each	17,500 TPA	From nearby source	By road
Toluene	2 nos. each	Within plot	100 KL each	100 KL each	500 TPA	From nearby source	By road
Anhydrous ammonia	2 nos. each	Within plot	180 KL each	180 KL each	11,300 TPA	From nearby source	By road



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Solvent	1 nos. each	Within pl	ot	30 KL each	30 KL each	As per requirement	From nearby source	By road		
Sulphuric acid	1 nos. each	Within pl	ot	600 KL each	600 KL each	33,000 TPA	From nearby source	By road		
Nitric acid	2 nos. each	Within pl	ot	600 KL each	600 KL each	21,000 TPA	From nearby source	By road		
Caustic Lye (49%)	1 nos. each	Within pl	ot	10 KL each	10 KL each	As per requirement	From nearby source	By road		
		52.A	ny Ot	her Info	rmation	1				
No Information Availab	ole									
		53.	Traffi	ic Manag	gement					
	to the m design o confluer	ice:								
	basemen					0,				
	Number and area of podia:									
	Total Pa	Total Parking area:		8,063 sq.m						
		Area per car:		-						
	Area per		-							
Parking details:	Number of 2- Wheelers as approved by competent authority:									
	Number of 4- Wheelers as approved by competent authority:									
	<b>Public T</b>	ransport:								
	Width or roads (n	f all Internal n):	as per MIDC norms							
	obtain, i	CRZ/ RRZ clearance obtain, if any:		Not applicable						
5	Criticall areas / E	ed Areas / y Polluted Eco-sensitive ater-State	Not applicable							
	Category schedule Notifica	y as per e of EIA tion sheet	5 (f)- B							
	Court ca	ses pending	Not applicable							
	Other Ro Informa		Not ap	plicable						



Signature: Name: Dr. Umakant Gangatrao Dangat Page 69 Dr. Umakant Dangat (Chairman SEAC-I)

Have you previously submitted Application online on MOEF Website.	Yes
Date of online submission	22-04-2016

#### SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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
<b>Energy Management</b>	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 granted ToR in 131st meeting of SEAC-1 held on 15 & 16th July, 2016 for manufacturing of oraganic chemcials and 10 MW Co-gen plant.

Now PP submitted the EIA report in which they are proposing 14 MW Co-gen plant. Considering the same activity for Co-gen plant, SEAC decided to allow PP to establish 14 MW Cogen plant.

PP to submit Form -II as per OM issued by MoEF&CC dated 20.04.2018.

#### **DECISION OF SEAC**



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

#### **Specific Conditions by SEAC:**

- 1) PP to submit compliance of point No. 1 of additional ToR granted by SEAC-1: The premises are situated at the valley of small hill and is prone to storm water flows which need to be collected and led away to ensure proper storm water management. All storm water shall be led into MIDC drain and not to River kalu. The plant alyout shoould also feature road along the periphery of the plant to facilitate easy movement of vehicles. The road shall be further compliment with 3 gates on the Southern side of the plot for easy access and exit.
- 2) PP to submit copy of HAZOP and Risk Assessment with Disaster Management Plan.
- 3) PP to use only imported coal having ash content less than 10%.
- 4) PP to submit bifurcation of the quantiles of the hazardous waste mentioned in the category 35.5. PP to submit their plan for fly ash disposal.
- 5) PP to submit CER plan as per OM dated 01.05.2018 along with timelines for its implementation.

#### FINAL RECOMMENDATION

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

appropries Abhay Pimparkar (Secretary

SEAC-I)

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# 152nd Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 152nd (Day- 2) Meeting Date June 13, 2018

Subject: Environment Clearance for LPG bottling plant at Rasayani with LPG receipt by pipeline /Tank Lorries

**Is a Violation Case:** No

Is a Violation Case: No						
1.Name of Project	LPG bottling plant at Rasayani with LPG receipt by pipeline /Tank Lorries					
2.Type of institution	TOR					
3.Name of Project Proponent	Bharat Petroleum Corporation Limited					
4.Name of Consultant	M/s ULTRA TECH					
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	Survey no. 13 (part) ,14, 15,16,etc in Village -Dapiwali (Tehsil-Panvel) and Survey no. $4/3$ , $4/6$ , $4/7$ , $4/8$ , etc in Village- Parade (Tehsil-Khalapur) , deatails in PFR					
9.Taluka	Panvel & Khalapur					
10.Village	Dapiwali & Parade					
Correspondence Name:	KVR Subudhi					
Room Number:	Bharat Petroleum Corporation Limited					
Floor:	4th Floor					
Building Name:	Bharat Bhavan-II					
Road/Street Name:	4 & 6 Currimbhoy Road					
Locality:	Ballard Estate					
City:	Mumbai					
11.Area of the project	The project site is under development control of CIDCO					
	Not Applicable					
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Not Applicable					
rippiovai ivambei	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.)	48.3 acre					
16.Deductions	Not applicable					
17.Net Plot area	Not Applicable					
	a) FSI area (sq. m.): Not applicable					
18 (a).Proposed Built-up Area (FSI & Non-FSI)	b) Non FSI area (sq. m.): Not applicable					
Non Toly	c) Total BUA area (sq. m.):					
	Approved FSI area (sq. m.): Not applicable					
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.): Not applicable					
DOR	Date of Approval: 17-04-2018					
19.Total ground coverage (m2)	Not applicable					
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable					
21.Estimated cost of the project	290000000					
22 Ni	har of buildings & its configuration					

22. Number of buildings & its configuration

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Serial number	Buildin	g Name &	number	Nu	mber of floors	Height of the building (Mtrs)		
1	N	Not applicabl	е	1	Not applicable	Not applicable		
23.Number tenants an		Not applica	ble					
24.Number expected rusers		Not Applica	ıble					
25.Tenant per hectar		Not applica	ble					
26.Height building(s)								
station to	the road earest fire	Not applica	ble			100		
28.Turning for easy ac fire tender movement around the excluding for the pla	from all building the width	Not applica	ble			200,		
29.Existing		Not applica	ble		0,0			
30.Details demolition disposal (I applicable	with f	Not applica	ble		>-			
			31.P	roduct	ion Details			
Serial Number	Pro	duct	Existing	eting (MT/M) Proposed (MT/M)		Total (MT/M)		
1	LI	PG		45000 4500		45000		
		3	2.Tota	l Wate	r Requiremen	nt		
		Source of	water	Not applica	ble			
		Fresh water	er (CMD):	Not applicable				
	^ \	Recycled v Flushing (		Not applicable				
	C	Recycled v Gardening		Not applicable				
	7	Swimming make up (		Not applicable				
Dry season:		Total Water Requirement (CMD)		Not applicable				
		Fire fighti Undergrou tank(CMD	ınd water	Not applicable				
		Fire fighti Overhead tank(CMD	water	Not applicable				
		Excess tre	ated water	Not applica	ble			
						1		

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	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
Wet season:	Total Water Requirement (CMD)	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	<b>Excess treated water</b>	Not applicable
Details of Swimming pool (If any)	Not applicable	

# 33.Details of Total water consumed

Particula rs	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Require ment	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	10	10	0	2.5	2.5	0	7.5	7.5
Industrial Process	0	25	25	0	5	5	0	20	20
Cooling tower & thermopa ck	0	5	5	0	5	5	0	0	0
Gardening	0	60	60	0	60	60	0	0	0
Fresh water requireme nt	0	100	100	0	72.5	72.5	0	27.5	27.5



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	Level of the Ground water table:	Will be provided EIA report					
	Size and no of RWH tank(s) and Quantity:	Will be provided EIA report					
	Location of the RWH tank(s):	Will be provided EIA reporty					
34.Rain Water Harvesting	Quantity of recharge pits:	Will be provided EIA report					
(RWH)	Size of recharge pits :	Will be provided EIA report					
	Budgetary allocation (Capital cost) :	Will be provided EIA report					
	Budgetary allocation (O & M cost) :	Will be provided EIA report					
	Details of UGT tanks if any:	Will be provided EIA report					
2.	Natural water drainage pattern:	Will be provided EIA report					
35.Storm water drainage	Quantity of storm water:	Will be provided EIA report					
	Size of SWD:	Will be provided EIA report					
	Sewage generation in KLD:	10 KLD					
	STP technology:	Will be provided EIA report					
Sewage and	Capacity of STP (CMD):	Will be provided EIA report					
Waste water	Location & area of the STP:	Will be provided EIA report					
	Budgetary allocation (Capital cost):	Will be provided EIA report					
	Budgetary allocation (O & M cost):	Will be provided EIA report					
	36.Solid	d waste Management					
Waste generation in	Waste generation:	Due to construction material handling like cement, brick,steel, sand					
the Pre Construction and Construction phase:	Disposal of the construction waste debris:	Will be used for back filling at site. Metal scraps will be disposed off through scrap dealer.					
	Dry waste:	Office & garden waste					
	Wet waste:	Domestic waste					
Waste generation	Hazardous waste:	Spent oil from DG sets, greases , cotton waste, paint residue, sludge from cleaning of mounded storage vessel in 5 years					
in the operation Phase:	Biomedical waste (If applicable):	Not applicable					
	STP Sludge (Dry sludge):	Will be provided EIA report					
	Others if any:	Not Applicable					



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		Dry waste:		Will be handed over to le	ocal body			
Wet v		Wet waste	<u> </u>	Will be converted into co	ompost and used as man	ure for green belt		
		Hazardous	waste:	from cleaning of mound	ums & sent to authorized ed storage vessel & pain proved agency of MPCB.	t sludge will be		
of waste:	-	Biomedica applicable		Not applicable				
		STP Sludge sludge):	e (Dry	Will be provided EIA report				
		Others if a	ny:	Not applicable				
		Location(s	):	Within the plant				
Area requirement:		Area for the storage of waste & other material:		20 square meter				
		Area for m	achinery:	chinery: Not applicable				
	allocation	Capital cos	st: Will be provided EIA report					
(Capital co O&M cost)		O & M cost:		Will be provided EIA report				
			37.Ef	37.Effluent Charecterestics				
Serial Number	Paran	neters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)		
1	_	ovided EIA oort	Will be provided EIA report	Will be provided EIA report	Will be provided EIA report	Will be provided EIA report		
Amount of effluent generation (CMD): 4 CMD			4 CMD					
Capacity of the ETP: Will be p			Will be pro	rovided EIA report				
Amount of treated effluent recycled: Will be pro			Will be pro	ovided EIA report				
Amount of water send to the CETP: Will be pr			Will be pro	ovided EIA report				
Membership of CETP (if require): Will be prov			Will be pro	vided EIA report				
Note on ET	P technology	to be used	Will be pro	vided EIA report				
Disposal of	the ETP sluc	lge	Will be prov	vided EIA report				

#### **38.Hazardous Waste Details**

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Paint residue	21.1	kg/day	0	4	4	CHWTSDF
2	Used/Spent Oil	5.1	lit/year	0	100	100	CHWTSDF

## 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set 250 KVA	HSD-57.51 lit/hr	1	3 meter from roof level	0.15	499
2	DG set 750 KVA	HSD-165 lit/hr	2	5.5 meter from roof level	0.20	406

## 40.Details of Fuel to be used



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Serial Number	Type of Fuel			Existing		Propo	sed	Total	
1	HSD			0		222.51 lit/l set		222.51 lit/hr for DG sets	
41.Source o	f Fuel		]	Local	ly purchased	l			
42.Mode of	Transportat	ion of fuel to	site 1	Barre	els/tankers By	y road			
		Total RG a	rea :		Will be prov	vided EIA	report		
		No of trees	to be	cut	Will be prov	rided EIA	report		
43.Gree		Number of be planted		to	Will be prov	rided EIA	report		
Develop	ment	List of pro- native tree			Will be prov	rided EIA	report		00
		Timeline for completion of plantation :		Before proje	ect comp	letion (24 1	months aft	er EC clearance)	
	44.Nu	mber and	l list	of t	rees spe	cies to	be pla	nted in	the ground
Serial Number	Name of	the plant	Coı	mmo	n Name	Ç	Quantity	Cl	naracteristics & ecological importance
1	_	ovided EIA oort	Will b	oe pro rep	ovided EIA ort	Will be provided EIA report		EIA	Will be provided EIA report
45	.Total quai	ntity of plan	ts on g	groui	ıd				
46.Num	nber and	list of sl	rubs	an	d bushes	speci	es to be	e plante	ed in the podium RG:
Serial Number		Name			C/C Distance Area m2		Area m2		
1	Will be pro	ovided EIA re	port	Will	be provided EIA report Will be provided EIA report				
				4	47.Er	ierav	7		
		Source of particular supply:	power	Q	Maharashtra State Electricity Distribution Co. Ltd.				
		During Construction Phase: (Demand Load)		100 KW					
		DG set as Power back-up during construction phase			125 KVA				
Dox	VOT.	During Operation phase (Connected load):		2000 KVA					
Power requirement:		During Op phase (Der load):		1	750 KVA				
		Transform	er:		1000 KVA				
		DG set as l back-up du operation	ıring		750 KVA & 250 KVA				
		Fuel used:			HSD				
			high e passi e plot		Not applicable				
	-1000								Signature

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#### 48. Energy saving by non-conventional method:

5% of total estimated power demand will be met from non conventional methods i.e. solar energy.LED lamps will be provided in all the utilities/buildings/yard lighting.

40 Detail	calculations	<b>€</b> 7 0/ <sub>0</sub>	of saving.
49.Detall	Calculations	<b>X</b> 70	or Savilla:

	Serial Number	<b>Energy Conservation Measures</b>	Saving %		
	1	Solar/ LED	5% of power demand		
ı					

#### 50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG set	Not Applicable	Acoustic Enclosure
Domestic Effluents	Not Applicable	STP
Industrial Effluents	Not Applicable	ETP
Solid Waste	Not Applicable	Composting & disposal to authorized vendor

Budgetary allocation (Capital cost and	Capital cost:	Will be provided EIA report
O&M cost):	O & M cost:	Will be provided EIA report

## 51. Environmental Management plan Budgetary Allocation

#### a) Construction phase (with Break-up):

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

## b) Operation Phase (with Break-up):

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

# 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
LPG	Proposed	Plant Area	8700	8700	NA	Uran Chakan Pipeline/Tank Lorries	Pipeline/road

#### **52.**Any Other Information

No Information Available

53.Traffic Management



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	Nos. of the junction to the main road &	Not Applicable			
	design of confluence:	Not Applicable			
	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			
Parking details:	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	Approx. 2.5 kilometers from Eco Sensitive Zone of Karnala Wildlife Sanctuary			
	Category as per schedule of EIA Notification sheet	6(b)			
	Court cases pending if any	No			
	Other Relevant Informations	Not Applicable			
	Have you previously submitted Application online on MOEF Website.	No			
2,	Date of online submission	-			
SEAC	DISCUSSION	ON ENVIRONMENTAL ASPECTS			
Environmental Impacts of the project	Not Applicable				
Water Budget	Not Applicable				
Waste Water Treatment	Not Applicable				
Drainage pattern of the project	Not Applicable				

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

## Brief information of the project by SEAC

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

## DECISION OF SEAC

During deliberation it was observed that, Karnala Wild Life Sanctury is situated at a distance of 2.5 KM from the proposed project site.

As per EIA Notification, 2006 the General Condition reads as:

" Any project or activity specified in Category 'B' will be treated as Category 'A' if located in full or part within 5 KM from the boundary of (i) Protected Areas notified under the Wild Life (Protection) Act, 1972.....

In view of above SEAC is of the opinion that, General Condition is applicable to the proposed project and therefore will be treated as category 'A'.

Hence forwarded to SEIAA for further decision.

**Specific Conditions by SEAC:** 

#### FINAL RECOMMENDATION



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