


## 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

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
Building Name:	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
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: Planning authority KDMC as per MRTP act 1966 Approved Built-up Area: 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
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA b) Non FSI area (sq. m.): NA c) Total BUA area (sq. m.): 502
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Approved Non FSI area (sq. m.): Date of Approval:
19.Total ground coverage (m2)	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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## 22. Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Shed for Incinerator, Autoclave shredder building	0	5.5
2	Autoclave waste storage area	0	3.0
3	Incinerate waste storage area	0	3
4	Treated waste storage area	0	3

23. Number of tenants and shops	NA
24. Number of expected residents / users	Only operational staff (Total 25 Personnel)
25. Tenant density per hectare	NA
26. Height of the building(s)	
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	5
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	5
29. Existing structure (s) if any	Existing Bio Medical Waste management facility
30. Details of the demolition with disposal (If applicable)	NA

## 31. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Incinerator	100 kg/hr	100 kg/hr	200 kg/hr
2	Autoclave	50 lit/cycle	50 lit/cycle	100 lit/cycle
3	Shredder	50 kg/hr	50 kg/hr	100 kg/hr

## 32. Total Water Requirement



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<b>Dry season:</b>	<b>Source of water</b>	Ground water through open well							
	<b>Fresh water (CMD):</b>	13.8 m3/day							
	<b>Recycled water - Flushing (CMD):</b>	6.2 m3/day (Flushing+Washing)							
	<b>Recycled water - Gardening (CMD):</b>	7 m3/day							
	<b>Swimming pool make up (Cum):</b>	Not applicable							
	<b>Total Water Requirement (CMD) :</b>	20 m3/day							
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable							
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable							
	<b>Excess treated water</b>	Not applicable							
<b>Wet season:</b>	<b>Source of water</b>	Ground water through open well							
	<b>Fresh water (CMD):</b>	13.8 m3/day							
	<b>Recycled water - Flushing (CMD):</b>	6.2 m3/day (Flushing+Washing)							
	<b>Recycled water - Gardening (CMD):</b>	7 m3/day							
	<b>Swimming pool make up (Cum):</b>	Not applicable							
	<b>Total Water Requirement (CMD) :</b>	20 m3/day							
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable							
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable							
	<b>Excess treated water</b>	Not applicable							
<b>Details of Swimming pool (If any)</b>	Not applicable								
<b>33.Details of Total water consumed</b>									
<b>Particulars</b>	<b>Consumption (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent (CMD)</b>		
<b>Water Requirement</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>
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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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	5.5
	<b>Size and no of RWH tank(s) and Quantity:</b>	NA
	<b>Location of the RWH tank(s):</b>	NA
	<b>Quantity of recharge pits:</b>	1
	<b>Size of recharge pits :</b>	1.44
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 60000
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 5000/Annum
	<b>Details of UGT tanks if any :</b>	3 UGT tanks- Total area 27 m2
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	As per gravity
	<b>Quantity of storm water:</b>	1900 mm
	<b>Size of SWD:</b>	50 m2
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	1.6 KLD
	<b>STP technology:</b>	NA. Entire waste water generated will be collected and treated in the existing Effluent Treatment Plant
	<b>Capacity of STP (CMD):</b>	NA
	<b>Location &amp; area of the STP:</b>	NA
	<b>Budgetary allocation (Capital cost):</b>	NA
	<b>Budgetary allocation (O &amp; M cost):</b>	NA
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	NA
	<b>Disposal of the construction waste debris:</b>	NA
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Proposed facility is for treatment & disposal of Bio-medical waste
	<b>Wet waste:</b>	Proposed facility is for treatment & disposal of Bio-medical waste
	<b>Hazardous waste:</b>	Used Oil 200 lit/year, Incineration Ash 1000 kg/month and ETP sludge 100 kg/day
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	NA
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	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.
	<b>Biomedical waste (If applicable):</b>	Proposed facility is for treatment & disposal of Bio-medical waste
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Survey no. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra - 421301
	<b>Area for the storage of waste &amp; other material:</b>	49.89 sq. m.
	<b>Area for machinery:</b>	167.13 sq. m.
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 2.74 Crore
	<b>O &amp; M cost:</b>	Rs 5 lacs/Annum

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	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 (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	BMW Cat. 9	kg/month	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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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	Incinerator (Existing)	LDO	1	30	0.8	313 K
2	DG set Stack (Existing)	diesel	1	3	0.1	350 K
3	Incinerator (Proposed)	LDO	1	30	0.8	315 K
4	DG set Stack (Proposed)	diesel	1	3	0.1	350 K

### 40.Details of Fuel to be used


Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO/Diesel	16.5 Lit/hr	16.5 Lit/hr	33 Lit/hr
41.Source of Fuel		Near by petrol pump		
42.Mode of Transportation of fuel to site		By road		

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	1665.21 m <sup>2</sup>
	<b>No of trees to be cut :</b>	NA
	<b>Number of trees to be planted :</b>	350
	<b>List of proposed native trees :</b>	Actinodaphne angustifolia, Adina cordifolia, Ailanthus excels, Albizia lebbeck, Alstonia scholaris, Anthocephalus chinensis, Aphanamixis polystachya, Bauhinia semla, Bauhinia varcgatea, Buchanania lanzan, Butea monosperma, Dalbergia latifolia, Dalbergia sisoo, Diospyros melanoxylon, Dryptes roxburghii, Garcinia indica Chois, Lagerstroemia parviflora Roxb, Lagerstroemia speciosa (Linn), Millingtonia hortensis L.f., Mimusops elengi Linn, Phyllanthus acidus (L), Salix tetrasperma Roxb., Samanea sama
	<b>Timeline for completion of plantation :</b>	5 years

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


Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	30	Dust Controller, Gas Absorbent, Noise Controller
2	Delonix regia	Gulmmohar	50	Dust Controller, Gas Absorbent
3	Polyalthia longifolia	Asopalav	148	Evergreen, Dust Controller, Gas Absorbent
4	Ficus benghalensis L	Vad	2	Evergreen, Dust Controller, Gas Absorbent
5	Mangifera indica L	Amli	35	Dust Controller, Gas Absorbent, Noise Controller
6	Derris indica (Lam.) Bennet	Karanj	35	Dust Controller, Gas Absorbent
7	Cassia siamea Lam	Kasid	50	Evergreen

### 45.Total quantity of plants on ground

  
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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	NA	NA	NA

**47.Energy**

<b>Power requirement:</b>	<b>Source of power supply :</b>	Maharashtra State Electricity Board (MSEB)
	<b>During Construction Phase: (Demand Load)</b>	50 KVA
	<b>DG set as Power back-up during construction phase</b>	NA
	<b>During Operation phase (Connected load):</b>	200 KW
	<b>During Operation phase (Demand load):</b>	200 KW
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	Existing DG Set of 150 KVA and Proposed D.G Sets of 62.5 KVA
	<b>Fuel used:</b>	Total 33 lit/hr LDO or Diesel
<b>Details of high tension line passing through the plot if any:</b>	Not applicable	

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

Reduction in usage of traditional light bulbs with Light Emitted Diode (LEDs) means reduction in usage energy consumption. Usage of Solar energy at different locations in the plant like parking light, roadside light etc. will be explored.

**49.Detail calculations & % of saving:**

Serial Number	Energy Conservation Measures	Saving %
1	Use of Light Emitted Diode (LEDs)	20
2	Usage of Solar energy at different locations will be explored	5

**50.Details of pollution control Systems**


Source	Existing pollution control system	Proposed to be installed
Effluent for process, washing and domestic	ETP	Modification of existing ETP
Air pollution from Incinerator	Scrubber	Scrubber
Noise	Acoustic enclosure	Acoustic enclosure



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<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	25000
	<b>O &amp; M cost:</b>	1500

## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	EMP	Air and noise	1.00

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	ETP	Waste water management System	30	2.5
2	Scrubber	Air pollution control measures	10.5	0.7
3	Landscape	Green belt development	1.75	0.3
4	Solid waste management	Solid waste management	1.5	0.75
5	Noise pollution control measures	Noise pollution control measures	1.25	0.75

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


Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Diesel and LDO	Liq. Fuel	Fuel storage	2	3	13.2	Nearest Petrol pump	By road

### 52.Any Other Information

No Information Available


### 53.Traffic Management

<b>Nos. of the junction to the main road &amp; design of confluence:</b>	1 Junction
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Parking details:	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
	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
	Date of online submission	29-06-2016

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

<b>Environmental Impacts of the project</b>	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. . As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
<b>Water Budget</b>	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
<b>Waste Water Treatment</b>	PP proposes Zero Liquid Discharge for waste water treatment.
<b>Drainage pattern of the project</b>	Not Applicable.
<b>Ground water parameters</b>	As per data submitted by PP, ground water parameters are within the prescribed limits at project site.

  
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<b>Solid Waste Management</b>	Proposed site is itself a bio medical waste treatment facility.
<b>Air Quality &amp; Noise Level issues</b>	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
<b>Energy Management</b>	The electrical demand for proposed project is 200KW, which will be supplied by MSEDCL. PP also proposes to have 150 KVA and 62.5 KVA DG set with HSD as a fuel.
<b>Traffic circulation system and risk assessment</b>	PP proposes 226.24 Sq.m area for parking on site. PP to carry out traffic Impact Study and implement the recommendations.
<b>Landscape Plan</b>	PP proposes 33% green belt.
<b>Disaster management system and risk assessment</b>	PP proposes adequate steps to handle an emergency.
<b>Socioeconomic impact assessment</b>	PP has carried out socio economic impact study and included in the EIA report.
<b>Environmental Management Plan</b>	PP proposes Rs. 1 lakh /Annum as EMP cost.
<b>Any other issues related to environmental sustainability</b>	PP to ensure treatment of biomedical waste received on site within 24 hours.

**Brief information of the project by SEAC**

SEAC-AGENDA-00000000100



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PP submitted their proposal 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.

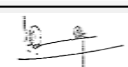
Now PP submitted the compliance of above points.



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## DECISION OF SEAC

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

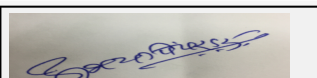
### Specific Conditions by SEAC:

- 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

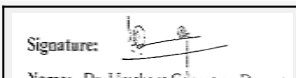
SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

SEAC-AGENDA-00000000100

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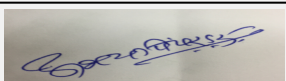
**Subject:** Environment Clearance for Proposed establishment of Synthetic Organic Chemical manufacturing facility

**Is a Violation Case:** No

<b>1.Name of Project</b>	Proposed establishment of Synthetic Organic Chemical manufacturing facility at Plot No B29, Additional Lote Parshuram MIDC, Tal. Khed, Dist: Ratnagiri
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Shree Pushkar Chemicals and Fertilizers Limited
<b>4.Name of Consultant</b>	Aditya Environmental Services Pvt. Ltd.
<b>5.Type of project</b>	Synthetic Organic Chemical Manufacturing Industry
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not Applicable
<b>8.Location of the project</b>	Plot No. B-29, Additional Lote Parshuram MIDC
<b>9.Taluka</b>	Khed
<b>10.Village</b>	Lote
<b>11.Area of the project</b>	Additional MIDC Lote Parshuram, Dist Ratnagiri
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	Not applicable
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Not Applicable
	<b>Approved Built-up Area:</b>
<b>13.Note on the initiated work (If applicable)</b>	No, Not Applicable
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	Not Applicable
<b>15.Total Plot Area (sq. m.)</b>	Industrial Plot Area - 40,000 Sq. m
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not applicable
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> Not applicable
	<b>b) Non FSI area (sq. m.):</b> Not applicable
	<b>c) Total BUA area (sq. m.):</b> Not applicable
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b>
	<b>Approved Non FSI area (sq. m.):</b>
	<b>Date of Approval:</b>
<b>19.Total ground coverage (m2)</b>	Not applicable
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	Not applicable
<b>21.Estimated cost of the project</b>	720000000


### 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
<b>23.Number of tenants and shops</b>	Not Applicable		
<b>24.Number of expected residents / users</b>	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)	0	7,800 TPA	7,800 TPA
5	Copper Sulfide (By - Product)	0	48 TPA	48 TPA
6	Ammonium Sulphate (By - Product)	0	3000 TPA	3000 TPA
7	HYPO(Sodium Hypo Chlorite NaOCl) (By - Product)	0	12 TPA	12 TPA
8	Copper (By - Product)	0	24 TPA	24 TPA
9	Poly Aluminum Chloride (PAC) (By - Product)	0	900 TPA	900 TPA

### 32.Total Water Requirement

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


### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	12	12	0	4	4	0	8	8
Cooling tower & thermopack	0	360	360	0	85	85	0	275	275
Industrial Process	0	35	35	0	10	10	0	25	25
Gardening	0	5	5	0	5	5	0	0	0

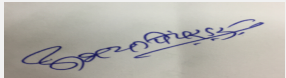
  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	will be furnish in EIA
	<b>Size and no of RWH tank(s) and Quantity:</b>	will be furnish in EIA
	<b>Location of the RWH tank(s):</b>	will be furnish in EIA
	<b>Quantity of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

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

### 37. Effluent Charecteristics

Serial Number	Parameters	Unit	Inlet Effluent Charecteristics	Outlet Effluent Charecteristics	Effluent discharge standards (MPCB)
1	pH	-	2 - 6.0	6.5 - 8.00	5.5-9.0
2	Oil & Grease	mg/l	20	8 - 10	10
3	BOD	mg/l	500 - 600	50 - 100	100
4	TDS	mg/l	6000	1000 -2100	2100
5	Suspended Solids	mg/l	200	50 - 100	100
6	COD	mg/l	1000-1200	250	250
7	Chloride	mg/l	1000	400-600	600
8	Sulphate	mg/l	2000800	1000	1000
Amount of effluent generation (CMD):		308 cmd			
Capacity of the ETP:		350 m3			
Amount of treated effluent recycled :		258 cmd			
Amount of water send to the CETP:		50 cmd			
Membership of CETP (if require):		Yes, we will apply for membership of lote parshuram CETP shortly.			
Note on ETP technology to be used		Effluent treatment comprising of Primary, Secondary & Tertiary treatment system followed by Multiple effect evaporator.			
Disposal of the ETP sludge		ETP sludge about 200 TPM is disposed at CHWTSDF Taloja			


### 38. Hazardous Waste Details

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

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

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boilers : 1 No x 6 TPH steam capacity each	Coal - 26 TPD	1	As per norms	Will be provide in EIA	Will be provide in EIA
2	Thermic Fluid Heater : 1 No x 3 Lac kcal/hr capacity each	Coal - 2.5 TPD	1	As per norms	Will be provide in EIA	Will be provide in EIA
3	Hot air Generators	Coal - 24 TPD	1	As per norms	Will be provide in EIA	Will be provide in EIA
4	DG Set - 500 MW (Emergency use only)	HSD : 125 Litres/hr	1	As per norms	Will be provide in EIA	Will be provide in EIA

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal - (Boiler , Thermic Fluid Heater, Hot Air Generator)	0	52.5 TPD	52.5 TPD
2	HSD (DG Set - 500 MW) (Emergency use only)	0	125Litres/hr	125Litres/hr

41.Source of Fuel Coal - Imported , HSD - From local supplier

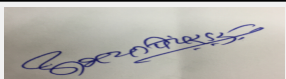
42.Mode of Transportation of fuel to site Mode of transport to site is by road truck/tankers.

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

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


Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Will be provided in EIA	Will be provided in EIA	Will be provided in EIA	Will be provided in EIA

### 45.Total quantity of plants on ground

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

**47.Energy**

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

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

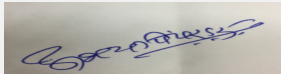
Will be provide in EIA

**49.Detail calculations & % of saving:**

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

**50.Details of pollution control Systems**


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



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

## 51.Environmental Management plan Budgetary Allocation

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


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

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

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


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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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	within plant site	15 KL	15 KL	2	nearby source	Mode of transport to site is by road truck/tankers.
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### 52.Any Other Information

No Information Available

### 53.Traffic Management


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

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

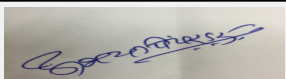
Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

**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 storm 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 provide 5 meter wide green belt all around the boundary of the proposed site.
- 10) PP to include detailed water balance calculations in the EIA report along with generation of waste water and its treatment and disposal plan.
- 11) PP to submit details of storage and disposal of non hazardous waste like Iron scrap, packing waste with special 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 lightning 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.

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

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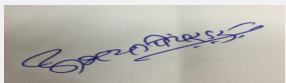
**Subject:** Environment Clearance for Proposed Establishment of Common Effluent Treatment Plant (CETP) at Plot No P - 30, Ambad MIDC area, Village Ambad, Tehsil Nasik, Dist. Nasik, Maharashtra by Nasik CETP Foundation

**Is a Violation Case:** No

<b>1.Name of Project</b>	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
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Nashik CETP Foundation
<b>4.Name of Consultant</b>	Aditya Environmental Services Pvt. Ltd.
<b>5.Type of project</b>	Not applicable
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	Plot No P - 30, Ambad MIDC area, Village Ambad, Tehsil Nasik, Dist. Nasik, Maharashtra
<b>9.Taluka</b>	Nashik
<b>10.Village</b>	Ambad
<b>11.Area of the project</b>	MIDC Ambad
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	MIDC approval
	<b>IOD/IOA/Concession/Plan Approval Number:</b> MIDC Plan approval
	<b>Approved Built-up Area:</b> 8900
<b>13.Note on the initiated work (If applicable)</b>	Not applicable
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	Not applicable
<b>15.Total Plot Area (sq. m.)</b>	8900 sq.m
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not applicable
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> Not applicable
	<b>b) Non FSI area (sq. m.):</b> Not applicable
	<b>c) Total BUA area (sq. m.):</b> 8900
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b>
	<b>Approved Non FSI area (sq. m.):</b>
	<b>Date of Approval:</b>
<b>19.Total ground coverage (m2)</b>	Not applicable
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	Not applicable
<b>21.Estimated cost of the project</b>	110000000


## 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
<b>23.Number of tenants and shops</b>	Not applicable		
<b>24.Number of expected residents / users</b>	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))	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

Dry season:	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
	Total Water Requirement (CMD):	12 cmd
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

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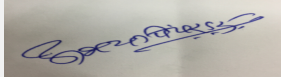
<b>Wet season:</b>	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>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

**Details of Swimming pool (If any)** Not applicable

**33.Details of Total water consumed**


Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	1	1	0	0.2	0	0	0.8	0.8
Industrial Process	0	11	11	0	5	5	0	6	6

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


  
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<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Not applicable
	<b>Quantity of storm water:</b>	Not applicable
	<b>Size of SWD:</b>	Not applicable
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	0.8 CMD
	<b>STP technology:</b>	Not applicable. Sewage will be treated in proposed CETP.
	<b>Capacity of STP (CMD):</b>	Not applicable
	<b>Location &amp; area of the STP:</b>	Not applicable
	<b>Budgetary allocation (Capital cost):</b>	Not applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not applicable
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Minor quantity of debris will be generate.
	<b>Disposal of the construction waste debris:</b>	Construction waste debris will be disposed off as per norms.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	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
	<b>Wet waste:</b>	--
	<b>Hazardous waste:</b>	Chemical sludge: 365 T/Annum, Spent Carbon: 5 T/Annum
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Not applicable
	<b>Others if any:</b>	Not applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	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
	<b>Wet waste:</b>	--
	<b>Hazardous waste:</b>	Chemical sludge: For landfill to approved CHWTSDF site, Spent Carbon: For landfill to approved CHWTSDF site
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Not applicable
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	As per requirement
	<b>Area for the storage of waste &amp; other material:</b>	As per requirement
	<b>Area for machinery:</b>	--

  
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<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Details will be given in EIA report
	<b>O &amp; M cost:</b>	Details will be given in EIA report

### 37. Effluent Characteristics



Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	--	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 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	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Steam boiler of 1500 kg/hr ( 6 barg steam)	Briquette ~ 6 T/day	1	as per norms	as per norms	as per norms
2	DG set 100 KVA	HSD ~ 22 Litres / hr	2	as per norms	as per norms	as per norms

#### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquette	0	6 TPD	6 TPD
2	HSD	0	22 Litres / hr	22 Litres / hr

41.Source of Fuel From nearby source

42.Mode of Transportation of fuel to site By road

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	As per MIDC norms
	<b>No of trees to be cut :</b>	Not applicable
	<b>Number of trees to be planted :</b>	As per green belt area
	<b>List of proposed native trees :</b>	Details will be given in EIA report
	<b>Timeline for completion of plantation :</b>	As per project implementation planning

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



Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	--	--	--	--

45.Total quantity of plants on ground

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

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

#### 47.Energy

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<b>Power requirement:</b>	<b>Source of power supply :</b>	from MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	200 KVA
	<b>DG set as Power back-up during construction phase</b>	DG set: 100 KVA
	<b>During Operation phase (Connected load):</b>	200 KVA
	<b>During Operation phase (Demand load):</b>	200 KVA
	<b>Transformer:</b>	Not applicable
	<b>DG set as Power back-up during operation phase:</b>	DG set: 100 KVA
	<b>Fuel used:</b>	HSD ~ 22 Litres / hr
	<b>Details of high tension line passing through the plot if any:</b>	Not applicable

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

Details will be given in EIA report

#### 49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

#### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution	Not applicable	Adequate stack height
Water pollution	Not applicable	ETP, UF system, RO system, MEE system, ATFD system
Hazardous waste generation	Not applicable	disposal to CHWTSDF

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Details will be given in EIA report
	<b>O &amp; M cost:</b>	Details will be given in 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	Details will be given in EIA report	Details will be given in EIA report	Details will be given in 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)
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1	Details will be given in EIA report	Details will be given in EIA report	Details will be given in EIA report	Details will be given in EIA report			
<b>51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)</b>							
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
<b>52.Any Other Information</b>							
No Information Available							
<b>53.Traffic Management</b>							
	Nos. of the junction to the main road & design of confluence:	Not applicable					
Parking details:	Number and area of basement:	Not applicable					
	Number and area of podia:	Not applicable					
	Total Parking area:	As per MIDC norms					
	Area per car:	Not applicable					
	Area per car:	Not applicable					
	Number of 2-Wheelers as approved by competent authority:	Not applicable					
	Number of 4-Wheelers as approved by competent authority:	Not applicable					
	Public Transport:	Not applicable					
	Width of all Internal roads (m):	Min 6 m					
	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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	<b>Other Relevant Informations</b>	Proposed project is establishment of Common effluent treatment plant within MIDC area. The total capacity of CETP is 500 cmd.
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	04-07-2017

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

## Brief information of the project by SEAC

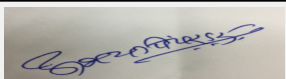
## DECISION OF SEAC

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

  
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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 Environmental Clearance for proposed storage & handling of dangerous cargos

**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 Environmnet Consultancy & Laboratory
5.Type of project	Industrial Project --for proposed storage & handling of dangerous cargos
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	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
12.IOD/IOA/Concession/Plan Approval Number	MIDC, Chakan Sanction obtained
	<b>IOD/IOA/Concession/Plan Approval Number:</b> MIDC Sanction No. : C88810 of 16 dated 06/09/2016
	<b>Approved Built-up Area:</b> 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
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 10517.43
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	20.63 %
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	460600000

## 22.Number of buildings & its configuration



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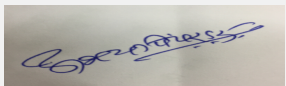
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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Ware House	G	13.20
2	Office Building	G+1	9.90
3	Energy Building	G	4.97
4	Gate House	G+1	10.20
5	MNR shed	G	8.0
6	Canteen	G+1	9.20
7	Electric Meter Room	G	6.00

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	200 Nos.
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	15 m MIDC road from Chakan MIDC Fire Station. Approx. 11 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	minimum 6.0m
29.Existing structure (s) if any	Construction of Ware House, Office Building, Energy Building, Gate House, MNR Shed, Canteen, Electric Meter Room
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	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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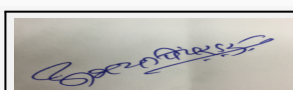
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4	Open Yard-Class-5 and its subclass (oxides & peroxides) UN Hazard Classes	0	50 T Maximum storage	50 T Maximum storage
5	Open Yard-Class-6 and its subclass (Toxic) UN Hazard Classes	0	215 T Maximum storage	215 T Maximum storage
6	Open Yard-Class-8 (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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<b>Dry season:</b>	<b>Source of water</b>	MIDC, Chakan
	<b>Fresh water (CMD):</b>	3.6 + Vessel Washing : 3.0 = 6.6
	<b>Recycled water - Flushing (CMD):</b>	4.5
	<b>Recycled water - Gardening (CMD):</b>	1.8
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	12.9
	<b>Fire fighting - Underground water tank(CMD):</b>	300
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not required; since pumps maintain positive pressure in fire hydrant at all times
	<b>Excess treated water</b>	Soak pit
<b>Wet season:</b>	<b>Source of water</b>	MIDC, Chakan
	<b>Fresh water (CMD):</b>	3.6 + Vessel Washing : 3.0 = 6.6
	<b>Recycled water - Flushing (CMD):</b>	4.5
	<b>Recycled water - Gardening (CMD):</b>	1.8
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	12.9
	<b>Fire fighting - Underground water tank(CMD):</b>	300
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not required; since pumps maintain positive pressure in fire hydrant at all times
	<b>Excess treated water</b>	Soak pit
<b>Details of Swimming pool (If any)</b>	NA	


### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	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 requirement	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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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	12 m below ground level
	<b>Size and no of RWH tank(s) and Quantity:</b>	NA
	<b>Location of the RWH tank(s):</b>	NA
	<b>Quantity of recharge pits:</b>	NA
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	NA
	<b>Budgetary allocation (O &amp; M cost) :</b>	NA
	<b>Details of UGT tanks if any :</b>	NA
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	From West to East
	<b>Quantity of storm water:</b>	0.3 m3/sec.
	<b>Size of SWD:</b>	600 mm (W) x 1400 (D) mm
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	6.3
	<b>STP technology:</b>	Sewage : Extended Aeration ETP : Conventional - Primary & Tertiary
	<b>Capacity of STP (CMD):</b>	6.5 KLD
	<b>Location &amp; area of the STP:</b>	as per the layout
	<b>Budgetary allocation (Capital cost):</b>	Rs. 9.92 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 2.50 Lakhs/Annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	NA
	<b>Disposal of the construction waste debris:</b>	NA
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	600 kg/day
	<b>Wet waste:</b>	100 kg/day
	<b>Hazardous waste:</b>	Category No. 34.3 Oil Water Sludge - generated from cleaning of storage tanks once in 5 years : 6.0 MT per year (approx)
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	0.5 kg/day
	<b>Others if any:</b>	E-waste : Negligible

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Will be disposed off from site through external agency on daily basis.
	<b>Wet waste:</b>	Shall be treated taken away by the canteen contractor.
	<b>Hazardous waste:</b>	CHWTSDF/ MPCB Authorized Recyclers
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Will be used as manure for landscaping
	<b>Others if any:</b>	E waste : Will be handed over to authorized E-waste handling agency.
<b>Area requirement:</b>	<b>Location(s):</b>	As per the services layout.
	<b>Area for the storage of waste &amp; other material:</b>	04 nos of 550 ltr garbage bins kept in designated place
	<b>Area for machinery:</b>	NA
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NA
	<b>O &amp; M cost:</b>	NA

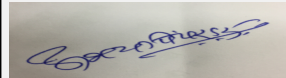

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	7	7	5.5-9
2	COD	mg/l	70	50	250
3	BOD	mg/l	20	10	100
4	TSS	mg/l	250	50	100
5	TDS	mg/l	300	110	2100
6	oil & Grease	mg/l	5	5	10
Amount of effluent generation (CMD):		3.0 CMD			
Capacity of the ETP:		3.0 CMD			
Amount of treated effluent recycled :		100% recycled			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Conventional			
Disposal of the ETP sludge		6.0 MT per year (approx)			

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	Lit	NA	270 ml/day/DG set	270 ml/day/DG set	Will be handed over to authorised vendor
2	Oil Water Sludge - generated from cleaning of storage tanks	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	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set	Diesel 40 lit/hr/DG set	1 No.	13.7	0.17	600 deg. C


#### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total	
1	Diesel	0	40lit/hr/ - DG set	40lit/hr	
41.Source of Fuel		Authorized Vendors			
42.Mode of Transportation of fuel to site		By Road			

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	388.50
	<b>No of trees to be cut :</b>	Nil
	<b>Number of trees to be planted :</b>	252 Nos.
	<b>List of proposed native trees :</b>	Ashoka
	<b>Timeline for completion of plantation :</b>	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	Common Name	Quantity	Characteristics & ecological importance
1	Delonix Regia	Gulmohar	75	Moderate sized fast growing, deciduous tree and light feathery foliage. The tree is mainly grown for its shade and ornamental value. Because of its hardy nature and aggressive root system , it is a good tree to control soil erosion in the arid and semi- arid areas. It is host for lac- insect also
2	Callistemon lanceolatus	Lal bottle brush	30	A medium sized tree that will eventually grow to around 8 m tall. Very widely planted all over the world including India. They are arranged spirally along loose hanging stems. Very adaptable. Grows in a wide climatic range.Good for making bonsai, for screening, for Hedges and Borders, to Attracts birds Attracts butterflies, Attracts bees Salt or salinity tolerant
3	Polyalthia longifolia,	Ashoka	17	Native to India, is a lofty evergreen tree, commonly planted due to its effectiveness in alleviating noise pollution. It exhibits symmetrical pyramidal growth with willowy weeping pendulous branches and long narrow lanceolate leaves with undulate margins. The tree is known to grow over 30 ft in height.

  
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4	Hyophorbe lagenicaulis	Bottle 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	TOTAL	TOTAL	252	---

**45.Total quantity of plants on ground**

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

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

**47.Energy**

<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	1 No. of 500kVA Mobile DG
	During Operation phase (Connected load):	686 KW
	During Operation phase (Demand load):	500 KVA
	Transformer:	1 no. 500 kVA
	DG set as Power back-up during operation phase:	1 no. 500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

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


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

**49.Detail calculations & % of saving:**

Serial Number	Energy Conservation Measures	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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<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NA
	<b>O &amp; M cost:</b>	NA

## 51.Environmental Management plan Budgetary Allocation

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

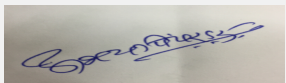
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	NA
2	NA	NA	NA

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

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 (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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 class	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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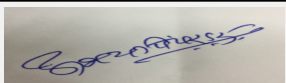
Class-6 and its subclass (Toxic)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	215 T Maximum storage	215 T Maximum storage	Nil	Same as above	Same as above
Class-8 (corrosives)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	315 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 class	100 T Maximum	100 T Maximum	Nil	Same as above	Same as above
Class-3 and its subclass (flammable liquids) HazardClasses	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	Proposed	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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<b>Parking details:</b>	<b>Number and area of basement:</b>	NA
	<b>Number and area of podia:</b>	NA
	<b>Total Parking area:</b>	As per requirement
	<b>Area per car:</b>	As per requirement
	<b>Area per car:</b>	As per requirement
	<b>Number of 2-Wheelers as approved by competent authority:</b>	12 sq. ft per vehicle
	<b>Number of 4-Wheelers as approved by competent authority:</b>	11
	<b>Public Transport:</b>	NA
	<b>Width of all Internal roads (m):</b>	6 m
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	6 (b)
	<b>Court cases pending if any</b>	No

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	<p><b>Other Relevant Informations</b></p>	<p>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.</p> <p>Keeping all of these in mind, we hereby kindly plead to let us store &amp; 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.</p> <p>Classes of dangerous goods:</p> <ol style="list-style-type: none"> <li>1) Class-2 and its subclass (gases): eg.-Helium, R134a, R410A, Butane, Propane etc.</li> <li>2) Class-3 and its subclass (flammable liquids): eg- Isopropanol, Methanol, MIBK, Toluene, LAB, Acetone / acetone oils, Adhesives, Paints, lacquers, varnishes etc.</li> <li>3) Class-4 and its subclass (flammable solids): eg.- Phosphorus, Sulphur etc.</li> <li>4) Class-5 and its subclass (oxides &amp; peroxides): eg.- Potassium nitrate, Aluminium nitrate etc.</li> <li>5) Class-6 and its subclass (Toxic and Infectious): eg.- Epichlohydrine, MDI, TDI etc.</li> <li>6) Class-8 (corrosives) eg.- Acetic, acid, Carboic acid, phenol, Hydrogen fluoride, Iodine, Morpholine</li> <li>7) Class-9 and its subclass (Miscellaneous): eg.- Polychlorinated biphenyls, Polychlorinated terphenyls, Dibromodifluoromethane, Benzaldehyde etc.</li> </ol>
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	<p><b>Have you previously submitted Application online on MOEF Website.</b></p>	<p>No</p>
	<p><b>Date of online submission</b></p>	

### 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 Requirement (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

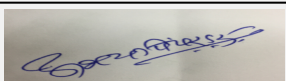
  
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32. Total Water Requirement	Total Water Requirement (CMD)=12.9	Total Water Requirement (CMD)=9.1
32. Total Water Requirement	Excess treated water=to soak pit	Excess treated water=2.8 to soak pit
33. Details of Total water consumed	Consumption:(CMD) Domestic-Existing=4.5,Proposed=0, Total= 4.5 Fresh water Reqt.-Existing=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 Reqt.-Existing=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, Total= 4.5 Fresh water Reqt.- Existing=0.6,Proposed=0, Total= 0.6 Gardening:- Existing=0,Proposed=1.8, Total=1.8 Industrial Process:- Existing=0,Proposed=0, Total=0	Loss:(CMD) Domestic-Existing=0,Proposed=0.5, Total= 0.5 Fresh water Reqt.-Existing=0,Proposed=0, Total= 0 Gardening:- Existing=0,Proposed=10, Total=10 Industrial Process:-NA
33. Details of Total water consumed	Effluent:(CMD) Domestic-Existing=4.5,Proposed=0, Total= 4.5 Fresh water Reqt.-Existing=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 Reqt.-Existing=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

  
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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 as mentioned below: 1) Delonix Regia (Gulmohor) 2)Callistemon lanceolatus (Lal Bottle brush) 3) Polyalthia longifolia(Ashok) 4) Hyophorbe lagenicaulis (Bottle Palm) 5) Azadirachtaindica (Neem) 6) Saracaasoca (sita Ashok) 7) Alstonia 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= 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 Lakhs/y
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 ENVIRONMENTAL ASPECTS

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

  
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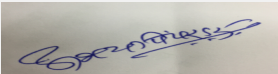
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**Brief information of the project by SEAC**


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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 allotted the land to M/s Suyog Logistic 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 defered 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 wicket 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.

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## DECISION OF SEAC

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


### Specific Conditions by SEAC:

- 1) PP 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

SEAC-AGENDA-0000000100

  
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**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

<b>1.Name of Project</b>	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
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Fine Organic Industries Limited
<b>4.Name of Consultant</b>	Aditya Environmental Services Pvt. Ltd.
<b>5.Type of project</b>	Industrial project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	Expansion within existing manufacturing facility
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	Plot No. G-1, G-1/1, Kharwai MIDC, Badlapur (East) Dist. Thane, Maharashtra
<b>9.Taluka</b>	Ambarnath
<b>10.Village</b>	Badalapur
<b>Correspondence Name:</b>	Dr. Nilambari Dariipkar
<b>Room Number:</b>	--
<b>Floor:</b>	--
<b>Building Name:</b>	--
<b>Road/Street Name:</b>	--
<b>Locality:</b>	--
<b>City:</b>	--
<b>11.Area of the project</b>	MIDC Kharwai
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	MIDC plot possession letter <b>IOD/IOA/Concession/Plan Approval Number:</b> MIDC plot possession letter & approved plan <b>Approved Built-up Area:</b> 4680.03
<b>13.Note on the initiated work (If applicable)</b>	Proposed expansion project will be within existing manufacturing facility.
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	MIDC plot possession letter & approved plan
<b>15.Total Plot Area (sq. m.)</b>	5849.5
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not applicable
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.): 958
<b>18 (b).Approved Built up area as per DCR</b>	Approved FSI area (sq. m.): Not applicable Approved Non FSI area (sq. m.): Not applicable Date of Approval: 23-04-2018
<b>19.Total ground coverage (m2)</b>	Not applicable
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	Not applicable
<b>21.Estimated cost of the project</b>	34500000


## 22.Number of buildings & its configuration



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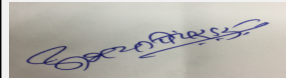

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	0	0	0
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	as per MIDC norms		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	as per MIDC norms		
29.Existing structure (s) if any	Existing facility is utilized for manufacturing. Existing structures: Production plan, storage area, utilities, tank farm, warehouse, ETP		
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	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

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


### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	6	1	7	1.5	1	2.5	4.5	0	4.5
Cooling tower & thermopack	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

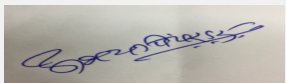
  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	---
	<b>Size and no of RWH tank(s) and Quantity:</b>	30 cmd
	<b>Location of the RWH tank(s):</b>	within plot
	<b>Quantity of recharge pits:</b>	--
	<b>Size of recharge pits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

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Not applicable
	<b>Wet waste:</b>	Not applicable
	<b>Hazardous waste:</b>	ETP sludge will be disposed off to CHWTSDF.
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Not applicable
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	within plot
	<b>Area for the storage of waste &amp; other material:</b>	--
	<b>Area for machinery:</b>	--
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	--
	<b>O &amp; M cost:</b>	--

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	11-13	6-9	6-9
2	Chemical oxygen demand	mg/lit	7000 to 9000	< 250	250
3	Biological oxygen demand	mg/lit	2000 to 4000	< 100	100
4	Total suspended solids	mg/lit	150 to 200	< 100	100
5	Total dissolved solids	mg/lit	700 to 1000	< 2100	2100
6	Oil and grease	mg/lit	40 to 50	< 50	50

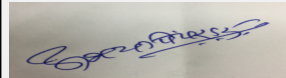
Amount of effluent generation (CMD):	Domestic sewage: 4.5 cmd, Trade effluent: 5 cmd
Capacity of the ETP:	10 cmd (Combined ETP for Trade & Domestic effluent)
Amount of treated effluent recycled :	NIL
Amount of water send to the CETP:	9.5 cmd
Membership of CETP (if require):	Yes. Unit is already member of CETP.
Note on ETP technology to be used	Screen chamber > Collection tank > Pre primary settling tank > Biological reactor > Settling tank > Pressure sand filter > Activated carbon filter
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 waste water treatment	35.3	Kg/ month	50	100	150	To CHWTSDF


### 39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
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1	Thermic fluid heaters (8 Lac Kcal/hr) (existing)	Furnace oil: 2,500 lit/day OR Natural gas: 3,000 kg/day	1	35 m	0.45	138 deg. C
2	Thermic fluid heaters (8 Lac Kcal/hr) (existing)	--	--	common stack of 35 m	--	--
3	Thermic fluid heaters (8 Lac Kcal/hr) (existing- Standby)	--	--	common stack of 35 m	--	--
4	Steam generator (existing)	--	--	common stack of 35 m	--	--
5	Steam generator (existing)	--	--	common stack of 35 m	--	--
6	Steam generator (existing- Standby)	--	--	common stack of 35 m	--	--
7	550 KVA DG set	25 Lit/ Day	2	3.5 m above roof	0.15	140 deg. C
8	550 KVA DG set	25 Lit/ Day	3	3.5 m above roof	0.15	140 deg. C
9	Process stack	--	4	8 m	--	--

#### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil	1700 Lit/ Day	800 Lit/ Day	2500 Lit/ Day
2	Natural Gas (only if available)	--	3000 Kg/ Day	3000 Kg/ Day
3	HSD	50 Lit/ Day	--	50 Lit/ Day

41.Source of Fuel from nearby source

42.Mode of Transportation of fuel to site By road


<b>43.Green Belt Development</b>	<b>Total RG area :</b>	Green belt area within plot: 545 sq.m, Green belt area outside plot: 13,376 sq. m, Total Green belt: 13,921 sq.m
	<b>No of trees to be cut :</b>	--
	<b>Number of trees to be planted :</b>	Details given in EiA report
	<b>List of proposed native trees :</b>	Details given in EiA report
	<b>Timeline for completion of plantation :</b>	as pr project completion phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	--	--	--	--


45.Total quantity of plants on ground

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

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

### 47. Energy

<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	from existing: 700 KVA
	DG set as Power back-up during construction phase	2 nos. of 550 KVA DG set
	During Operation phase (Connected load):	from existing: 700 KVA
	During Operation phase (Demand load):	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 passing through the plot if any:	--

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

Solar street light, Solar panel

### 49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--


### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution	Adequate stack height	--
Water pollution	Effluent treatment plant	--
Noise pollution	Acoustic enclosure, Silencer	--
Hazardous waste	To CHWTSDF	--

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	Capital cost:	--
	O & M cost:	--


### 51. Environmental Management plan Budgetary Allocation

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

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

**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	--	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 (inflammable/explosive/hazardous/toxic substances)**

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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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Liq. Ammonia	Proposed	within plot	40 KL	as per requirement	2700 Nos. of cylinders	from nearby source	By road
<b>52.Any Other Information</b>							
No Information Available							
<b>53.Traffic Management</b>							
	Nos. of the junction to the main road & design of confluence:	--					
Parking details:	Number and area of basement:	--					
	Number and area of podia:	--					
	Total Parking area:	702 sq.m					
	Area per car:	--					
	Area per car:	--					
	Number of 2-Wheelers as approved by competent authority:	--					
	Number of 4-Wheelers as approved by competent authority:	--					
	Public Transport:	--					
	Width of all Internal roads (m):	as per MIDC norms					
	CRZ/ RRZ clearance obtain, if any:	Not applicable					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable					
	Category as per schedule of EIA Notification sheet	5 (f)- B					
	Court cases pending if any	Not applicable					
	Other Relevant Informations	Not applicable					
	Have you previously submitted Application online on MOEF Website.	Yes					
	Date of online submission	26-02-2016					
<b>SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS</b>							

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



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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 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

<b>1.Name of Project</b>	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
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Vinati Organics Limited
<b>4.Name of Consultant</b>	Aditya Environmental Services Pvt. Ltd.
<b>5.Type of project</b>	Industrial project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	Plot No. L-2/1, L-2/2, Additional MIDC Mahad, Dist: Raigad, Maharashtra
<b>9.Taluka</b>	Mahad
<b>10.Village</b>	Kalij village
<b>Correspondence Name:</b>	Mr. Jayesh Ashar
<b>Room Number:</b>	--
<b>Floor:</b>	--
<b>Building Name:</b>	--
<b>Road/Street Name:</b>	--
<b>Locality:</b>	--
<b>City:</b>	--
<b>11.Area of the project</b>	In Additional Mahad MIDC
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	Plot possession letter
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Plot possession letter
	<b>Approved Built-up Area:</b> 29810
<b>13.Note on the initiated work (If applicable)</b>	Not applicable
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	Plot possession letter
<b>15.Total Plot Area (sq. m.)</b>	100054
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not applicable
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> Not applicable
	<b>b) Non FSI area (sq. m.):</b> Not applicable
	<b>c) Total BUA area (sq. m.):</b> 29810
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b> Not applicable
	<b>Approved Non FSI area (sq. m.):</b> Not applicable
	<b>Date of Approval:</b> 08-05-2018
<b>19.Total ground coverage (m2)</b>	43655
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	Not applicable
<b>21.Estimated cost of the project</b>	5540000000

## 22.Number of buildings & its configuration



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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Not applicable	Not applicable	Not applicable	
23.Number of tenants and shops	Not applicable			
24.Number of expected residents / users	Not applicable			
25.Tenant density per hectare	Not applicable			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	as per MIDC norms			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	as per MIDC norms			
29.Existing structure (s) if any	Not applicable. Proposed project is new establishment.			
30.Details of the demolition with disposal (If applicable)	Not applicable			
<b>31.Production Details</b>				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Para Amino Phenol	--	36000 TPA	36000 TPA
2	Nitrobenzene	--	40000 TPA	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
<b>32.Total Water Requirement</b>				

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


### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	--	15	15	--	3	3	--	12	12
Industrial Process	--	45	45	--	25	25	--	20 + reaction water 119	20 + reaction water 119
Cooling tower & thermopack	--	4652	4652	--	4004	4004	--	648	648
Gardening	--	83	83	--	83	83	--	0	0

  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	--	
	<b>Size and no of RWH tank(s) and Quantity:</b>	2 x 300 cu.m	
	<b>Location of the RWH tank(s):</b>	within plot	
	<b>Quantity of recharge pits:</b>	--	
	<b>Size of recharge pits :</b>	--	
	<b>Budgetary allocation (Capital cost) :</b>	--	
	<b>Budgetary allocation (O &amp; M cost) :</b>	--	
	<b>Details of UGT tanks if any :</b>	--	
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	--	
	<b>Quantity of storm water:</b>	--	
	<b>Size of SWD:</b>	--	
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	12 cmd	
	<b>STP technology:</b>	Not applicable	
	<b>Capacity of STP (CMD):</b>	--	
	<b>Location &amp; area of the STP:</b>	--	
	<b>Budgetary allocation (Capital cost):</b>	--	
	<b>Budgetary allocation (O &amp; M cost):</b>	--	
<b>36.Solid waste Management</b>			
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Minor quantity of construction waste will be generate.	
	<b>Disposal of the construction waste debris:</b>	Construction waste will be disposed off as per norms.	
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	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	
	<b>Wet waste:</b>	--	
	<b>Hazardous waste:</b>	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	
	<b>Biomedical waste (If applicable):</b>	--	
	<b>STP Sludge (Dry sludge):</b>	--	
	<b>Others if any:</b>	--	
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non Hazardous waste will be disposed off as per norms.
	<b>Wet waste:</b>	--
	<b>Hazardous waste:</b>	Hazardous waste will be disposed off as per Hazardous waste rule 2016.
	<b>Biomedical waste (If applicable):</b>	--
	<b>STP Sludge (Dry sludge):</b>	--
	<b>Others if any:</b>	--
<b>Area requirement:</b>	<b>Location(s):</b>	within plot
	<b>Area for the storage of waste &amp; other material:</b>	--
	<b>Area for machinery:</b>	--
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	--
	<b>O &amp; M cost:</b>	--

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	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 effluent generation (CMD):		799 cmd			
Capacity of the ETP:		Adequate sized ETP capacity will be provided during detailing			
Amount of treated effluent recycled :		770 cmd			
Amount of water send to the CETP:		29 cmd			
Membership of CETP (if require):		--			
Note on ETP 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

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	Process wastes, residues and sludge (Paint cans, brush etc)	21.1	TPA	--	1	1	To CHWTSDF
---	---	------	-----	----	---	---	------------

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	96 TPH Boiler	Coal: 17455 Kg/ Hr	1	76	3	140
2	15 Lac kcal/ Hr Thermic fluid heater	Coal: 564 Kg/ Hr	2	30	0.55	150
3	15 Lac kcal/ Hr Thermic fluid heater	Coal: 564 Kg/ Hr	3	30	0.55	150
4	750 KVA DG set	HSD: 150 Lit/ Hr	4	5 m above building	--	--
5	750 KVA DG set	HSD: 150 Lit/ Hr	5	5 m above building	--	--

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	--	446 TPD	446 TPD
2	HSD	--	300 Lit/ Hr	300 Lit/ Hr
41.Source of Fuel		from nearby source		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	Total RG area :	Green belt area: 33,072 sq.m.
	No of trees to be cut :	--
	Number of trees to be planted :	--
	List of proposed native trees :	--
	Timeline for completion of plantation :	As per project development phase

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



Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	--	--	--	--

### 45.Total quantity of plants on ground

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

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

### 47.Energy

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--	--	--------------------------------	--

<b>Power requirement:</b>	<b>Source of power supply :</b>	From MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	--
	<b>DG set as Power back-up during construction phase</b>	2 nos. of 750 KVA DG set
	<b>During Operation phase (Connected load):</b>	5000 KVA
	<b>During Operation phase (Demand load):</b>	5000 KVA
	<b>Transformer:</b>	--
	<b>DG set as Power back-up during operation phase:</b>	2 nos. of 750 KVA DG set
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	--

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

--

**49. Detail calculations & % of saving:**

Serial Number	Energy Conservation Measures	Saving %
1	--	--

**50. Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
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


<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	--
	<b>O &amp; M cost:</b>	--

**51. Environmental Management plan Budgetary Allocation**

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

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

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

  
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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 (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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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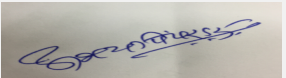
Solvent	1 nos. each	Within plot	30 KL each	30 KL each	As per requirement	From nearby source	By road
Sulphuric acid	1 nos. each	Within plot	600 KL each	600 KL each	33,000 TPA	From nearby source	By road
Nitric acid	2 nos. each	Within plot	600 KL each	600 KL each	21,000 TPA	From nearby source	By road
Caustic Lye (49%)	1 nos. each	Within plot	10 KL each	10 KL each	As per requirement	From nearby source	By road

### 52.Any Other Information

No Information Available

### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	Number and area of basement:	--
	Number and area of podia:	--
	Total Parking area:	8,063 sq.m
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	as per MIDC norms
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5 (f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable

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

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

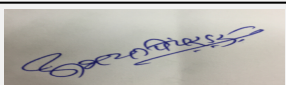
### Brief information of the project by SEAC

PP granted ToR in 131st meeting of SEAC-1 held on 15 & 16th July, 2016 for manufacturing of organic chemicals 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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## 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

<b>1.Name of Project</b>	LPG bottling plant at Rasayani with LPG receipt by pipeline /Tank Lorries
<b>2.Type of institution</b>	TOR
<b>3.Name of Project Proponent</b>	Bharat Petroleum Corporation Limited
<b>4.Name of Consultant</b>	M/s ULTRA TECH
<b>5.Type of project</b>	Not applicable
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not Applicable
<b>8.Location of the project</b>	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) , deetails in PFR
<b>9.Taluka</b>	Panvel & Khalapur
<b>10.Village</b>	Dapiwali & Parade
<b>Correspondence Name:</b>	KVR Subudhi
<b>Room Number:</b>	Bharat Petroleum Corporation Limited
<b>Floor:</b>	4th Floor
<b>Building Name:</b>	Bharat Bhavan-II
<b>Road/Street Name:</b>	4 & 6 Currimbhoy Road
<b>Locality:</b>	Ballard Estate
<b>City:</b>	Mumbai
<b>11.Area of the project</b>	The project site is under development control of CIDCO
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	Not Applicable
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Not Applicable
	<b>Approved Built-up Area:</b>
<b>13.Note on the initiated work (If applicable)</b>	Not applicable
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	Not Applicable
<b>15.Total Plot Area (sq. m.)</b>	48.3 acre
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not Applicable
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> Not applicable
	<b>b) Non FSI area (sq. m.):</b> Not applicable
	<b>c) Total BUA area (sq. m.):</b>
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b> Not applicable
	<b>Approved Non FSI area (sq. m.):</b> Not applicable
	<b>Date of Approval:</b> 17-04-2018
<b>19.Total ground coverage (m2)</b>	Not applicable
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	Not applicable
<b>21.Estimated cost of the project</b>	2900000000

## 22.Number of buildings & its configuration



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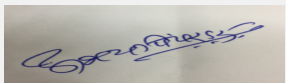
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not Applicable		
25.Tenant density per hectare	Not applicable		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	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	LPG	0	45000	45000


### 32.Total Water Requirement

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

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

<b>Details of Swimming pool (If any)</b>	Not applicable
--	----------------

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	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 & thermopack	0	5	5	0	5	5	0	0	0
Gardening	0	60	60	0	60	60	0	0	0
Fresh water requirement	0	100	100	0	72.5	72.5	0	27.5	27.5


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

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Will be handed over to local body
	<b>Wet waste:</b>	Will be converted into compost and used as manure for green belt
	<b>Hazardous waste:</b>	Will be stored in MS drums & sent to authorized re processors. Sludge from cleaning of mounded storage vessel & paint sludge will be disposed off through approved agency of MPCB.
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Will be provided EIA report
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Within the plant
	<b>Area for the storage of waste &amp; other material:</b>	20 square meter
	<b>Area for machinery:</b>	Not applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Will be provided EIA report
	<b>O &amp; M cost:</b>	Will be provided EIA report

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	Will be provided EIA report	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			
Capacity of the ETP:		Will be provided EIA report			
Amount of treated effluent recycled :		Will be provided EIA report			
Amount of water send to the CETP:		Will be provided EIA report			
Membership of CETP (if require):		Will be provided EIA report			
Note on ETP technology to be used		Will be provided EIA report			
Disposal of the ETP sludge		Will be provided EIA report			

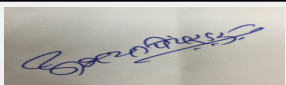

### 38. Hazardous Waste Details

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	Proposed	Total
1	HSD	0	222.51 lit/hr for DG sets	222.51 lit/hr for DG sets

41. Source of Fuel Locally purchased

42. Mode of Transportation of fuel to site Barrels/tankers By road

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	Will be provided EIA report
	<b>No of trees to be cut :</b>	Will be provided EIA report
	<b>Number of trees to be planted :</b>	Will be provided EIA report
	<b>List of proposed native trees :</b>	Will be provided EIA report
	<b>Timeline for completion of plantation :</b>	Before project completion (24 months after EC clearance)

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Will be provided EIA report	Will be provided EIA report	Will be provided EIA report	Will be provided EIA report


45.Total quantity of plants on ground

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

Serial Number	Name	C/C Distance	Area m2
1	Will be provided EIA report	Will be provided EIA report	Will be provided EIA report


#### 47.Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	Maharashtra State Electricity Distribution Co. Ltd.
	<b>During Construction Phase: (Demand Load)</b>	100 KW
	<b>DG set as Power back-up during construction phase</b>	125 KVA
	<b>During Operation phase (Connected load):</b>	2000 KVA
	<b>During Operation phase (Demand load):</b>	750 KVA
	<b>Transformer:</b>	1000 KVA
	<b>DG set as Power back-up during operation phase:</b>	750 KVA & 250 KVA
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	Not applicable

  
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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.

**49. Detail calculations & % of saving:**

Serial Number	Energy Conservation Measures	Saving %
1	Solar/ LED	5% of power demand

**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

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Will be provided EIA report
	<b>O &amp; M cost:</b>	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	Will be provided EIA report	Will be provided EIA report	Will be provided EIA report


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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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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	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	Not Applicable
<b>Parking details:</b>	<b>Number and area of basement:</b>	Not Applicable
	<b>Number and area of podia:</b>	Not Applicable
	<b>Total Parking area:</b>	Not Applicable
	<b>Area per car:</b>	Not Applicable
	<b>Area per car:</b>	Not Applicable
	<b>Number of 2-Wheelers as approved by competent authority:</b>	Not Applicable
	<b>Number of 4-Wheelers as approved by competent authority:</b>	Not Applicable
	<b>Public Transport:</b>	Not Applicable
	<b>Width of all Internal roads (m):</b>	Not Applicable
	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not Applicable
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Approx. 2.5 kilometers from Eco Sensitive Zone of Karnala Wildlife Sanctuary
	<b>Category as per schedule of EIA Notification sheet</b>	6(b)
	<b>Court cases pending if any</b>	No
	<b>Other Relevant Informations</b>	Not Applicable
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

<b>Environmental Impacts of the project</b>	Not Applicable
<b>Water Budget</b>	Not Applicable
<b>Waste Water Treatment</b>	Not Applicable
<b>Drainage pattern of the project</b>	Not Applicable

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

### Brief information of the project by SEAC

PP 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 Sanctuary is situated at a distance of 2.5 KM from the proposed project site.

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

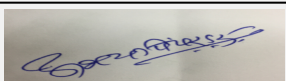
**" Any project or activity specified in Category 'B' will be treated as Category 'A' if located in full or part within 5 KM from the boundary of (i) Protected Areas notified under the Wild Life (Protection) Act, 1972....."**

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.

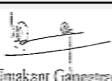
Specific Conditions by SEAC:

### FINAL RECOMMENDATION

  
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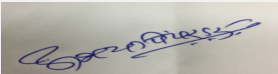
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Kindly find SEAC decision above.


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