

155th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 155th Meeting Date September 6, 2018

Subject: Environment Clearance for Uma Barrage Project

Is a Violation Case: No

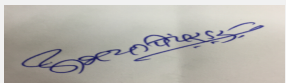
General Information: Venue: Maharashtra Economic Development Council, Board Room, 3rd Floor, Y. B. Chavan Centre, Gen. Jagannathrao Bhosale Marg, Near Mantralaya, Mumbai- 400 020.

1.Name of Project	Uma Barrage Project
2.Type of institution	Government
3.Name of Project Proponent	Water Resourcec Department
4.Name of Consultant	NEERI Nagpur
5.Type of project	Irrigation Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Across River Uma Near Village Borta
9.Taluka	Murtizapur
10.Village	Borta
11.Area of the project	Other
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): Not applicable
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	2372300000

22.Number of buildings & its configuration


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

23.Number of tenants and shops Not applicable


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24. Number of expected residents / users	Not applicable
25. Tenant density per hectare	Not applicable
26. Height of the building(s)	
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	5.00 M
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29. Existing structure (s) if any	Not applicable
30. Details of the demolition with disposal (If applicable)	Not applicable

31. Production Details

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


32. Total Water Requirement

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


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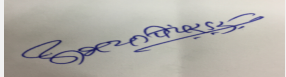
Wet season:	Source of water	River
	Fresh water (CMD):	51
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable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

Details of Swimming pool (If any) Not applicable

33.Details of Total water consumed


Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Water Requirement									
Fresh water requirement	51	51	51	0	0	0	0	0	0

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


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

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

36.Solid waste Management

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

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


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

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

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


37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

41.Source of Fuel Fuel Station

42.Mode of Transportation of fuel to site Utility Vehicle

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

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta Indica	Neem	50	Medicinal Plant
2	Albizia lebbeck	Siras	130	Ecological
3	Mangifera indica	Aam	20	Fruit

45.Total quantity of plants on ground

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

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

47. Energy

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

48. Energy saving by non-conventional method:

Not applicable

49. Detail calculations & % of saving:

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

50. Details of pollution control Systems

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

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


51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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


b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
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1	Not applicable	Not applicable	Not applicable	Not applicable			
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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	Not applicable					
Parking details:	Number and area of basement:	Not applicable					
	Number and area of podia:	Not applicable					
	Total Parking area:	Not applicable					
	Area per car:	Not applicable					
	Area per car:	Not applicable					
	Number of 2-Wheelers as approved by competent authority:	Not applicable					
	Number of 4-Wheelers as approved by competent authority:	Not applicable					
	Public Transport:	Not applicable					
	Width of all Internal roads (m):	Not applicable					
	CRZ/ RRZ clearance obtain, if any:	Not applicable					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable					
	Category as per schedule of EIA Notification sheet	Not applicable					
	Court cases pending if any	Not applicable					


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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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


Brief information of the project by SEAC



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

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

Para 13(4)(i)

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

Para 14

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

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

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

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

The chronology of the project is as below,

1. PP started work on 16.05.2009
2. PP submitted their application for prior Environment Clearance on 24.07.2008
3. SEAC granted ToR on 07.03.2009
4. Public Hearing was conducted on 06.10.2012
5. PP submitted EIA&EMP report on 10.02.2013
6. PP made presentation before SEAC on 15.12.2013 wherein violation was detected.
7. PP received stop work on 23.01.2017

The provisions of Notification dated 08.03.2018 are as below.

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

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

During deliberations PP requested as below,

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

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

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

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

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

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

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


DECISION OF SEAC



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PP remained absent.

Now the proposal is referred back by the SEIAA with following remarks,

"SEIAA acknowledged and approved that no fresh public hearing is required as it was already conducted. The proposal was referred back to the SEAC-1 for further appraisal."

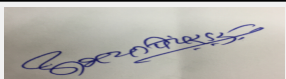
Hence, SEAC decided to grant the ToR as discussed in the SEAC-1 meeting dated 02.06.2017 along with the following additional ToR points for the preparation of revised EIA/EMP report as per EIA Notification, 2006 and amendment dated 08.03.2018.

Specific Conditions by SEAC:

- 2) PP to submit project site details (location, top sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
- 3) PP to submit details of Forest and Wild Life ecosensitive zones if any in the study area and within the range of 5 km.
- 4) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
- 5) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
- 6) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment
- 7) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 8) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
- 9) 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
- 10) PP to include present status of the construction of the project in EIA report.
- 11) PP to ensure compliance of requirement of MWRRA and relevant Forest Acts.
- 12) PP to include details of disposal of excavated spoils and its impact on the surrounding environment in the EIA report.


FINAL RECOMMENDATION

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


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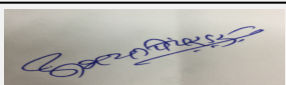
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Subject: Environment Clearance for Proposed expansion of synthetic organic chemicals facility at Plot No. A-17, MIDC Mahad, Mahad, Dist Raigad by Maharashtra Aldehydes and Chemicals Ltd

Is a Violation Case: Yes


1.Name of Project	Proposed expansion of Synthetic organic chemicals facility at Plot No. A-17, MIDC Mahad, Mahad, Dist Raigad by Maharashtra Aldehydes and Chemicals Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Maharashtra Aldehydes and Chemicals Limited,
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing facility
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A-17, MIDC Mahad, Mahad
9.Taluka	Mahad
10.Village	Mahad
Correspondence Name:	Durgesh Gorane (GM-TECH),
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	Maharashtra Aldehydes and Chemicals Limited, A-17, MIDC Mahad Mahad, Dist Raigad
City:	MIDC, Mahad
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot allotment IOD/IOA/Concession/Plan Approval Number: MIDC plot approval Approved Built-up Area: 7709.63
13.Note on the initiated work (If applicable)	Not applicable. Proposed expansion will be within existing facility.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	20000 sq.m.
16.Deductions	--
17.Net Plot area	--
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): -- b) Non FSI area (sq. m.): -- c) Total BUA area (sq. m.): 7709.63
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.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	--
21.Estimated cost of the project	500000000

22.Number of buildings & its configuration



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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	--	--	--	
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))	Min. 6 m			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9 m			
29.Existing structure (s) if any	Existing facility pertaining to manufacturing of Synthetic Organic chemicals.			
30.Details of the demolition with disposal (If applicable)	No major demolition			
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Alkyl Esters Phthalic acids	800	800	1600
2	Alkyl Esters carboxylic acids	30	184	214
3	Alkyl Esters Citric acids	0	150	150
4	Phenol Derivatives	21.5	1186	1207.5
5	Cyclopentanone & its Derivatives	100	0	100
6	Absolute Alcohol	0	1200	1200
7	Distillation of solvents	165	235	400
8	Vitamin Formulations	100	400	500
9	Sodium Sulphate	0	500	500
10	Acetic/ Propionic Acid	0	50	50
11	Sodium Pyrithione	75	- 75	0 (product will be discontinued in proposed project)
32.Total Water Requirement				


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Dry season:	Source of water	MIDC
	Fresh water (CMD):	--
	Recycled water - Flushing (CMD):	--
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	566 cmd (Existing + Proposed)
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
Wet season:	Source of water	--
	Fresh water (CMD):	--
	Recycled water - Flushing (CMD):	--
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	--
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
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	10.5	4.5	15	2.5	0.5	3	8	4	12
Industrial Process	79	180	259	19	10	29	60	170	230
Cooling tower & thermopack	67	225	292	59.5	205	264.5	7.5	20	27.5
Gardening	0	0	0	0	0	0	0	0	0


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Details will be given in EIA report
	Size and no of RWH tank(s) and Quantity:	Details will be given in EIA report
	Location of the RWH tank(s):	Details will be given in EIA report
	Quantity of recharge pits:	Details will be given in EIA report
	Size of recharge pits :	Details will be given in EIA report
	Budgetary allocation (Capital cost) :	Details will be given in EIA report
	Budgetary allocation (O & M cost) :	Details will be given in EIA report
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	Natural water drainage pattern:	Details will be given in EIA report
	Quantity of storm water:	Details will be given in EIA report
	Size of SWD:	Details will be given in EIA report
Sewage and Waste water	Sewage generation in KLD:	12 cmd
	STP technology:	Not applicable. Sewage will be treated in ETP plant at Secondary stage.
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Minor quantity of construction debris will be generate.
	Disposal of the construction waste debris:	Minor quantity of construction debris will be generate.
Waste generation in the operation Phase:	Dry waste:	Coal ash: 10.7 TPD, Metal scrap: 200 kg/M, Insulating waste: 100 kg/M, Canteen waste: 900 kg/A, Rubber hand gloves, PVC shoes, tarpoline, paper waste: 300 kg/A, Broken discarded glass: 200 kg/A
	Wet waste:	NA
	Hazardous waste:	Chemical sludge form waste water treatment - 40 MT/D, Residue And wastes 420 KL/M, Process sludge / residue 210 KL/M, Spent Organic solvent 270 KL/M, Discarded barrels/liners 2200 Nos. / Y, Discarded Asbestos 250 Kg/yr, Spent oil (waste/used oil) 230 Kg/M, Oil soaked gaskets and cotton waste 5 Kg/M, Filter & filter material 1 MT/Y
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not Applicable
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Mode of Disposal of waste:	Dry waste:	Coal Ash: Sale to Bricks manufacture, Metal scrap: Sale to Authorized party , Insulating waste: Sale to Authorized party, Canteen waste: Composting, Rubber hand gloves, PVC shoes, tarpaulin, paper waste: Recycle/ Sale after decontamination, Broken discarded glass: Sale after decontamination
	Wet waste:	Wet waste will be disposed off as per norms.
	Hazardous waste:	Hazardous waste will be disposed of as per HW rule, 2016/ CPCB norms/ MPCB norms.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	as per requirement
	Area for the storage of waste & other material:	as per requirement
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Details will be given in EIA report
	O & M cost:	Details will be given in EIA report

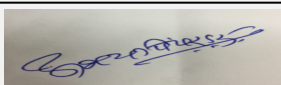
37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	2 to 4	6.5 to 9	6.5 to 9
2	Chemical oxygen Demand	mg/L	5000 to 6000	< 250	250
3	Biological oxygen Demand	mg/L	2000 to 3000	< 100	100
4	Total suspended solids	mg/L	200 to 300	< 100	100
5	Total Dissolved solids	mg/L	3000 to 4000	< 2100	2100
6	Oil & Grease	mg/L	10 to 15	< 10	10
7	Sulphate	mg/L	2500 to 3000	< 1000	1000
8	Total Ammonical nitrogen	mg/L	10 to 20	< 50	50
9	Chloride	mg/L	1000	< 600	600

Amount of effluent generation (CMD):	269.5 cmd (Existing + Proposed)
Capacity of the ETP:	300 cmd (Existing + Proposed)
Amount of treated effluent recycled :	Treated effluent partly will be used for green belt development & maintenance.
Amount of water send to the CETP:	269.5 cmd (Existing + Proposed)
Membership of CETP (if require):	Yes. Company is already member of Mahad CETP.
Note on ETP technology to be used	Please refer Pre- feasibility report.
Disposal of the ETP sludge	ETP sludge will be sent to CHWTSDF for disposal.

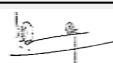
38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge form waste water treatment	35.3	TPM	10	30	40	to CHWTSDF


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2	Residue And wastes	28.1	KL/M	120	300	420	Sale to MPCB authorized recycler
3	Spent Organic solvent	28.6	KL/M	270	0	270	Sale to MPCB authorized recycler/ CHWTSDF
4	Process sludge / residue	26.1	KL/M	60	150	210	Sale to MPCB authorized recycler
5	Discarded barrels/liners	33.1	Nos/A	0	2200	2200	Sale to MPCB authorized recycler
6	Discarded Asbestos	15.2	Kg/A	0	250	250	Sale to MPCB authorized recycler
7	Spent oil	5.1	Kg/M	0	230	230	Sale to MPCB authorized recycler
8	Oil soaked gaskets and cotton waste	5.2	Kg/M	0	5	5	Sale to MPCB authorized recycler
9	Filter & Filter material	36.2	TPA	0	1	1	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	Boiler (existing) - 2 TPH	Coal- 7 TPD	1	32	0.8	142
2	TFH (Existing) - 4 Lakh Kcal/Hour	FO- 1.2 KL/day OR Coal- 2.8 TPD	2	20	0.45	148
3	Boiler (Proposed) - 6 TPH	Coal: 26 TPD	3	as per statutory requirement	as per statutory requirement	as per statutory requirement
4	TFH (Proposed) - 8 lakh Kcal/hour	Coal: 7.2 TPD	4	as per statutory requirement	as per statutory requirement	as per statutory requirement
5	DG set (Existing) - 62 KVA	HSD: 0.5 KL/day	5	2 m above roof	0.15	140
6	DG set (Proposed) - 250 KVA	HSD: 1.2 KL/day	6	as per statutory requirement	as per statutory requirement	as per statutory requirement

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	9.8 TPD	33.2 TPD	43 TPD
2	Furnace oil	1.2 KL/day	0	1.2 KL/day
3	HSD	0.5 KL/day	1.2 KL/day	1.7 KL/day
41.Source of Fuel		From nearby vendors		
42.Mode of Transportation of fuel to site		By road		


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43.Green Belt Development	Total RG area :	as per MIDC norms
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	as per CPCB norms
	List of proposed native trees :	Details will be given in EIA report.
	Timeline for completion of plantation :	Details will be given in EIA report.

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


Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	770 KVA (proposed)
	DG set as Power back-up during construction phase	2 DG set (Existing 1 No. 62 KVA + Proposed 1 No. 250 KVA)
	During Operation phase (Connected load):	770 KVA (proposed)
	During Operation phase (Demand load):	770 KVA
	Transformer:	within plot
	DG set as Power back-up during operation phase:	2 DG set (Existing 1 No. 62 KVA + Proposed 1 No. 250 KVA)
	Fuel used:	HSD for DG sets
	Details of high tension line passing through the plot if any:	No HT line passing through plot.

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

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


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50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution (Boiler, TFH, Process, DG set)	Stack & Cyclone dust collector	Stack & bag filter
Water pollution	ETP	ETP
Noise pollution	PPE, Acoustic enclosure	PPE, Acoustic enclosure
Hazardous waste	disposal at CHWTSDF, Authorized recycler	disposal at CHWTSDF, Authorized recycler
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	details will be given in EIA report
	O & M cost:	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	--	--	--

b) Operation Phase (with Break-up):

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


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
SDS	Existing + Proposed	within plot	3 x 100 KL + 3 x 100 KL	480 KL	1283.4	Local	Tanker
Methanol	Existing	within plot	46 KL	36 KL	754.5	Local	Tanker
Acetic Anhydride	Proposed	within plot	20 KL	16 KL	52	Local	Tanker
Hexane	Existing	within plot	3 x 12 KL	30 KL	444.4	Local	Tanker
2 Ethyl Hexanol	Proposed	within plot	2 x 100 KL	160 KL	300.33	Local	Tanker
Iso Nonyl Alcohol	Proposed	within plot	100 KL	80 KL	153	Local	Tanker
Propionic Anhydride	Proposed	within plot	20 KL	16 KL	49	Local	Tanker
Acetonitrile	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker
Ethyl Acetate	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker
Ethyl Acetoacetate	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker
Acetic acid	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker


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Butanol	Proposed	within plot	20 KL	16 KL	627.6	Local	Tanker
Toluene	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker


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:	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):	as per rule
	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	12-04-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS


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

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PP submitted their application for grant of ToR under category 5(f)B1 for violation project and expansion as per amended Notification issued by MoEF&CC dated 08.03.2018. PP applied for the grant of ToR to the SEIAA vide Unique ID No1212.. on 12th April, 2018 on SEIAA portal for grant of ToR as a case of violation and expansion.

The proposal was considered in the 151st meeting of SEAC held on 25.05.2018 where in the proposal was deferred for following reason.

"it was observed that PP was not having adequate information to present to the committee."

The proposal was again considered in 153rd meetng held on 02.07.2018 whrere in following decision was taken,

After detailed deliberations with the PP and their accredited consultant it was observed that PP has not submitted the information and docuemtns as requireid under para 13(4) of the Notification dated 14.03.2017 which reads as below;

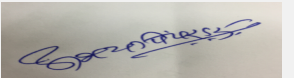
"The cases of violation will be appraised by respective sector Expert Appraisal Committees constituted under subsection (3) of Section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been

constructed at a site which under prevailing laws is permissible and expansion has been done which can be run sustainably under compliance of environmental norms with adequate environmental safeguards; and in case, where the

finding of the Expert Appraisal Committee is negative, closure of the project will be recommended along with other actions under the law."


Hence, Deferred.

DECISION OF SEAC


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Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below, Public Consultation to be carried out as per procedure stipulated in the EIA Notification, 2006.

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.

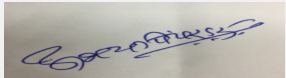
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

PP to refer to the Office Memorandum issued by MoEF&CC dated 19.08.2018 with respect to the standard conditions to be stipulated in the Environment Clearance letter for the Chemical Industry to identify the impact of operations on the environmental attributes and implement appropriate mitigation measures to reduce the impact.

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


Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles
- 2) PP to submit an affidavit for not violating any conditions stipulated in the Consent letter issued by Maharashtra Pollution Control Board.
- 3) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 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 submit year wise comparative of the consumption of the resources like water, energy, raw material etc. with respect to the products manufactured.
- 6) PP to submit project site details (location, top sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
- 7) PP to submit details of Forest and Wild Life eco sensitive zones if any in the study area and within the range of 5 km.
- 8) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
- 9) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
- 10) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.
- 11) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 12) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
- 13) 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.
- 14) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 15) PP to provide new and renewable energy sources for the illumination of the office building and street lights.
- 16) PP to use briquettes as a fuel for boiler or use coal having ash content less than 10%.


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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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155th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 155th Meeting Date September 6, 2018

Subject: Environment Clearance for Construction of 2 X 900 MT LPG Mounded Storage Vessels and 1 x 60 Station Flexi carousel of 25000 MT/M bottling capacity by Bharat Petroleum Corporation Limited at Sanaswadi, Shirur, Pune.

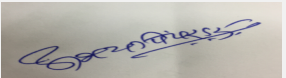
Is a Violation Case: No

1.Name of Project	Construction of 2 X 900 MT LPG Mounded Storage Vessels and 1 x 60 Station Flexi carousel of 25000 MT/M bottling capacity by Bharat Petroleum Corporation Limited at Sanaswadi, Shirur, Pune.
2.Type of institution	Semi Government
3.Name of Project Proponent	Bharat Petroleum Corporation Limited , Pune LPG Bottling Plant.
4.Name of Consultant	ABC Techno Labs India Private Limited, A-355, Third Floor, Balaji Bhavan, Plot No. 42A, Sector 11, CBD Belapur, Navi Mumbai - 400614. Tel.: 02227580044, Mobile no. : 8422068888, Email ID: chaitanyasathe@abctechlab.com
5.Type of project	Storage/Filling of LPG
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable (The existing LPG Bottling facility was established prior to EIA Notification 2006).
8.Location of the project	Plot No. 1069/70/71/72/73
9.Taluka	Shirur
10.Village	Sanaswadi
11.Area of the project	Not applicable
12.IOD/IOA/Concession/Plan Approval Number	Not applicable IOD/IOA/Concession/Plan Approval Number: Not applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work will be initiated without obtaining Environmental Clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	750000000

22.Number of buildings & its configuration


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

23.Number of tenants and shops Not applicable


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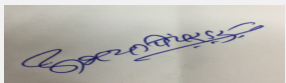
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	7 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	(i) 2100 MT (3x 300 MT + 2x 600 MT) Mounded Storage Vessel; (ii) 2x 24 Station Carousel for LPG cylinder filling = 15000 MT/M Bottling plant
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	Project activity consist of receipt/ storage/ filling/ dispatch of LPG Cylinders	(i) 2100 MT of storage capacity; (ii) 180000 MT/ Y	(i) 1800 MT of storage capacity ; (ii) 120000 MT/ Y	(i) 3900 MT of Storage capacity; (ii) 300000 MT/Y


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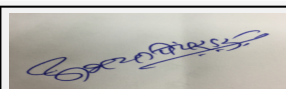
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Wet season:	Source of water	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD)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

Details of Swimming pool (If any)	Not applicable
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33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	8	0	8	2	0	2	6	0	6
Industrial Process	5	0	5	1	0	1	4	0	4
Gardening	1	0	1	1	0	1	0	0	0
Fresh water requirement	8 (Make-up water for fire fighting storage tank)	0	8 (Make-up water for fire fighting storage tank)	8 (Make-up water for fire fighting storage tank)	0	8 (Make-up water for fire fighting storage tank)	0	0	0



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	15 m
	Size and no of RWH tank(s) and Quantity:	20x 20
	Location of the RWH tank(s):	Within the plant premises
	Quantity of recharge pits:	Existing bore well will be used to recharge ground water.
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	20,000
	Budgetary allocation (O & M cost) :	5,000
	Details of UGT tanks if any :	15 kl Under Ground Tank for storage of service water.

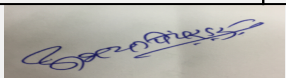
35.Storm water drainage	Natural water drainage pattern:	The storm water will have a natural flow.
	Quantity of storm water:	-
	Size of SWD:	300 mm x 300 mm

Sewage and Waste water	Sewage generation in KLD:	6
	STP technology:	Septic tank and soak pits are provided
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	The solid waste generation on the proposed site will be due to the various construction materials like cement, brick, steel, sand stone, paint and varnishes.
	Disposal of the construction waste debris:	Most of the construction materials like soil, bricks, concrete will be reused for back filling and road construction works and metal scraps will be sold to registered scrap dealers as per corporation procedure.


Waste generation in the operation Phase:	Dry waste:	9.6 kg/day
	Wet waste:	14.4 kg/day
	Hazardous waste:	(i) Spent oil from D.G.Set: 10 litres/ annum; (ii) Grease and Cotton waste: 25 litres/ annum; (iii) Tank sludge from cleaning of bullets: 500 litres/ 5 years
	Biomedical waste (If applicable):	Not application
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	(i) Oily Sludge: 1 KL/Y; (ii) Scrap cylinder: 100/m



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Mode of Disposal of waste:	Dry waste:	Will be handed over to local body.
	Wet waste:	Will be converted into compost and used as manure for green belt development.
	Hazardous waste:	Will be stored in MS drums and sent to authorised pre-processors. The tank bottom sludge shall be handed over to common incineration facility or to the agency approved by Pollution Control Board.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Will be handed over to authorised vendor.
Area requirement:	Location(s):	Within the plant premises.
	Area for the storage of waste & other material:	10 m ²
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	50,000
	O & M cost:	30,000

37. Effluent Characteristics


Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	COD	mg/L	160	0	250
2	BOD	mg/L	56	0	100
3	TSS	mg/L	0.138	0	100
4	pH	-	9	7.5	7.3-7.7
5	TDS	mg/L	800	310	-
Amount of effluent generation (CMD):		4			
Capacity of the ETP:		4			
Amount of treated effluent recycled :		1			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Standard ETP of make approved by MPCB is being used.			
Disposal of the ETP sludge		Handed over to MPCB authorised party.			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	Litres/annum	10	0	10	To authorised vendor


39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	D.G. Set	HSD: 0.068 KL	2	8	0.15	70 C
2	FW Engine	Diesel	2	8	0.15	70 C

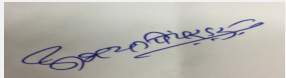

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40.Details of Fuel to be used				
Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0.034 KL	0.034 KL	0.068 KL
41.Source of Fuel		From petroleum retail outlets.		
42.Mode of Transportation of fuel to site		By road		
43.Green Belt Development				
		Total RG area :	40468 m2	
		No of trees to be cut :	No trees will be cut.	
		Number of trees to be planted :	100	
		List of proposed native trees :	Azardirachta indica, Bauhinia purpurea, Cassia fistula, Ficus religiosa, Langerstroemia flosreginae, Mangifera Indica, Michelia champaca, Millingtonia hortensis, Plumeria alba, Plumeria rubra, Putranjivarox burghii , Saraca asoca, Tabebuia rosea	
		Timeline for completion of plantation :	With completion of construction phase.	
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	10	Native, Medicinal value, controls soil erosion, Evergreen.
2	Bauhinia purpurea	Raktachandan	5	Fragrant flowers and leaves, evergreen tree
3	Cassia fistula	Bahaya	5	Medicinal value, Drought tolerant species, ornamental, flowering plant
4	Ficus religiosa	Peepal	10	Medicinal plant, antibacterial, anti fungal, very sacred tree, Shade giving
5	Langerstroemia flosreginae	Tamhan	6	Creates shade, attracts birds/butterflies/bees, good for screening
6	Mangifera Indica	Mango	6	Fruit plant, fragrant flowers or leaves, attracts birds/butterflies/bees
7	Michelia champaca	Son chafa	10	Fragrant flowers or leaves, attracts birds/butterflies/bees, evergreen tree
8	Millingtonia hortensis	Jasmine Tree	10	Fragrant flowers or leaves, plant for pooja, evergreen tree
9	Plumeria alba	Dev chafa	10	Flowering, Fast Growing, Hardy, Ornamental form
10	Plumeria rubra	Frangipani, Red Plumeria	10	Flowering, Medicinal value, Fast Growing, Hardy, Ornamental
11	Putranjivarox burghii	Jivanputra, Patravanti	5	Medicinal value, ornamental, Pollution resistant plant
12	Saraca asoca	Sita Ashok, Jasundi	8	Indigenous, Pollution resistant, gives shade

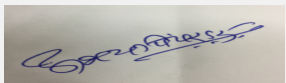

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13	Tabebuia rosea	Basant rani	5	Flowering, Shade giving, Drought Tolerant
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	-	-	-	
47.Energy				
Power requirement:	Source of power supply :	MSEDCL		
	During Construction Phase: (Demand Load)	40 KVA		
	DG set as Power back-up during construction phase	3x 350 KVA		
	During Operation phase (Connected load):	450 MW		
	During Operation phase (Demand load):	600 KVA		
	Transformer:	1000 KVA		
	DG set as Power back-up during operation phase:	3x 250 KVA and 830 KVA		
	Fuel used:	HSD		
	Details of high tension line passing through the plot if any:	None present		
48.Energy saving by non-conventional method:				
Not applicable				
49.Detail calculations & % of saving:				
Serial Number	Energy Conservation Measures	Saving %		
1	Not applicable	Not applicable		
50.Details of pollution control Systems				
Source	Existing pollution control system	Proposed to be installed		
Not applicable	Not applicable	Not applicable		
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	20,00,000		
	O & M cost:	10,00,000		
51.Environmental Management plan Budgetary Allocation				
a) Construction phase (with Break-up):				
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)	


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1	Water for dust suppression	Dust control	0.75
2	Site sanitation, Safety and Disinfection	Workers health	3
3	Environmental Monitoring	Air, water, noise, soil sampling and testing	0.5
4	Health Check-up	Routine health check-up for workers	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	-	1	0.5
2	Water pollution control	-	6	2
3	Occupational health	Routine health check-up for workers	0.5	1
4	Green belt development	Tree plantation and green area development	2	1
5	Solid waste management	-	0.5	0.2
6	Environmental monitoring and management	Air, water, noise, soil sampling and testing	0.5	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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	1
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Parking details:	Number and area of basement:	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	250 m ²
	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):	3.5
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Nil in 10 km radius from the project site
	Category as per schedule of EIA Notification sheet	6 (b) Isolated storage and handling of hazardous chemicals
	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	09-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP to provide sewage treatment plant for the treatment of domestic sewage.
Drainage pattern of the project	PP provided storm water drains.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site.


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Solid Waste Management	Construction waste will be reused for back filling and road construction works. Hazardous waste will be sold to the Authorised vendors.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	Not Applicable
Traffic circulation system and risk assessment	The electrical demand for proposed project is 600 KVA, which will be supplied by MSEDCL. PP also proposes to have 3 nos. of 250 KW and one number of 830 KVA with HSD as a fuel.
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP proposes adequate steps to handle an emergency.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs.4.75 Lakh during construction phase and 10.5 Lakh as capital cost and Rs. 5.0 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	PP to include oil and grease parameter in the monitoring of soil and water samples.

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 for expansion of existing unit. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The proposal is for construction of 2x900 MT LPG mounded storage vessels and 1x60 station flexi carousal of 25000 MT/M capacity.

Public Hearing is applicable under the provisions of the EIA Notification, 2006.

ToR was granted in the 142nd meeting held on 13.09.2017.

DECISION OF SEAC

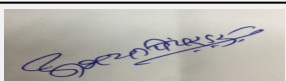
After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the following condition.

Specific Conditions by SEAC:

- 1) PP to submit revised layout plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 2) PP to include oil and grease parameter in the monitoring of soil and water samples.

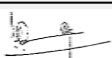
FINAL RECOMMENDATION

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


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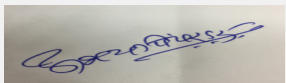
155th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 155th Meeting Date September 6, 2018

Subject: Environment Clearance for Proposed Capacity Expansion of BPCL Manmad Installation at Panewadi, Manmad, Maharashtra.


Is a Violation Case: No

1.Name of Project	Proposed Capacity Expansion of BPCL Manmad Installation at Panewadi, Manmad, Maharashtra.
2.Type of institution	Semi Government
3.Name of Project Proponent	Bharat Petroleum Corporation Limited (BPCL)
4.Name of Consultant	ABC Techno Labs India Pvt Ltd. Head Office: #400, 13th Street, SIDCO Industrial Estate (North Phase), Ambattur - 600 098, Chennai ; Regional Office: A355, Balaji Bhavan, Plot No. 42 A, Sector 11, CBD Belapur, Navi Mumbai - 400614, Maharashtra.
5.Type of project	Others
6.New project/expansion in existing project/modernization/diversification in existing project	Product Storage Capacity expansion by construction of three additional tanks: 1 x 858 KL (for Ethanol) & 2 x 3,415 KL each (for Biodiesel).
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The existing petroleum installation was established prior of EIA Notification 2006. The plant regularly practices the conditions laid by the PCB
8.Location of the project	Survey no 18-27 of Nagapur, Panewadi, Manmad Nandgaon Road, Manmad - 423104.
9.Taluka	Nandgaon
10.Village	Panewadi, Manmad
Correspondence Name:	Mr. Nikhil Zanvar
Room Number:	NA
Floor:	NA
Building Name:	BPCL Manmad Installation
Road/Street Name:	Manmad - Nandgaon road
Locality:	NA
City:	Manmad
11.Area of the project	Others
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work will be initiated without obtaining Environmental Clearance
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	226 acres
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Approved Non FSI area (sq. m.): Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	158500000


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22. Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23. Number of tenants and shops	Not applicable		
24. Number of expected residents / users	Not applicable		
25. Tenant density per hectare	Not applicable		
26. Height of the building(s)			
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	9 Meter (Nearest Fire Station is at Manmad)		
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable		
29. Existing structure (s) if any	Existing structures includes the Admin Building, Canteen, Drivers Rest Room, Parking area, and Storage tanks for MS, HSD, SKO, Ethanol		
30. Details of the demolition with disposal (If applicable)	Not applicable as the expansion will be carried out within the existing plants premises		

31. Production Details


Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Motor Spirit	85460.2 KL	0	85460.2 KL
2	High Speed Diesel	234445 KL	0	234445 KL
3	Super Kerosene Oil	16700 KL	0	16700 KL
4	Ethanol	400 KL	858 KL	1258 KL
5	Bio Diesel	0	6830 KL	6830 KL

32. Total Water Requirement



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Dry season:	Source of water	Bore well								
	Fresh water (CMD):	Not applicable								
	Recycled water - Flushing (CMD):	Not applicable								
	Recycled water - Gardening (CMD):	Not applicable								
	Swimming pool make up (Cum):	Not applicable								
	Total Water Requirement (CMD) :	Not applicable								
	Fire fighting - Underground water tank(CMD):	Not applicable								
	Fire fighting - Overhead water tank(CMD):	Not applicable								
	Excess treated water	Not applicable								
Wet season:	Source of water	Bore well								
	Fresh water (CMD):	Not applicable								
	Recycled water - Flushing (CMD):	Not applicable								
	Recycled water - Gardening (CMD):	Not applicable								
	Swimming pool make up (Cum):	Not applicable								
	Total Water Requirement (CMD) :	Not applicable								
	Fire fighting - Underground water tank(CMD):	Not applicable								
	Fire fighting - Overhead water tank(CMD):	Not applicable								
	Excess treated water	Not applicable								
Details of Swimming pool (If any)	Not applicable									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Water Requirement	15	0	15	0	0	0	5.8	0	5.8	
Domestic	15	0	15	0	0	0	5.8	0	5.8	


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5m -10m
	Size and no of RWH tank(s) and Quantity:	2 tank = 50 X 50 m and 16 X 9 m
	Location of the RWH tank(s):	Back side of existing tank farm area
	Quantity of recharge pits:	01
	Size of recharge pits :	2m x 3m
	Budgetary allocation (Capital cost) :	100000
	Budgetary allocation (O & M cost) :	20000
	Details of UGT tanks if any :	-

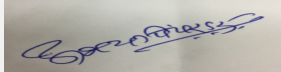
35.Storm water drainage	Natural water drainage pattern:	Natural water drainage pattern is preserved
	Quantity of storm water:	-
	Size of SWD:	NA

Sewage and Waste water	Sewage generation in KLD:	5.8 KLD
	STP technology:	Soak pit and and septic tanks are provided for discharge of domestic sewage.
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

36.Solid waste Management


Waste generation in the Pre Construction and Construction phase:	Waste generation:	The solid waste generation on the proposed site will be due to the various construction materials like cement, brick, steel, sand stone, paint and varnishes.
	Disposal of the construction waste debris:	Most of the construction materials like soil, bricks, concrete will be reused for back filling and road construction works and metal scraps will be sold to metal recyclers

Waste generation in the operation Phase:	Dry waste:	paper , cartons, plastics etc - 4 kg approx.
	Wet waste:	Biodegradable canteen waste -8 kg approx.
	Hazardous waste:	spent batteries , waste oil , empty drums of oil/ chemicals , fluorescent tubes , 165 KL/annum tank bottom sludge (once in 5 years)
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	NA
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Handed over to authorized vendor or disposed as per applicable MSW rules 2016
	Wet waste:	The composted waste will be used as manure .
	Hazardous waste:	Total tank bottom sludge thus generated is sent to CHWTSDF Pune.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	NA
Area requirement:	Location(s):	133.44 acres
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

37. Effluent Characteristics

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

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Tanks Bottom Sludge	Hazardous	KL/Annum	160	165	165	Once in 5 years to CHWTSDF (Pune)


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	2 x 630 kVA, 1 x 300 kVA, 1 x 250 kVA	HSD	4	7	0.15	70 degree

40. Details of Fuel to be used


Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	2 x 630 kVA, 1 x 300 kVA, 1 x 250 kVA	0	70 L/ Hr for 630 KVA, 40 L/Hr for 250 KVA, 50 L/Hr FOR 300 KVA DG set.

41. Source of Fuel	From Petroleum retail outlets
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42.Mode of Transportation of fuel to site		By Roadways		
43.Green Belt Development	Total RG area :	74.58 acres i.e. 33 % of total plot area will be developed into Green belt.		
	No of trees to be cut :	NA		
	Number of trees to be planted :	NA		
	List of proposed native trees :	NA		
	Timeline for completion of plantation :	NA		
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzigium cumini	Jambhul	NA	NA
2	Butea monosperma	Palash	NA	NA
3	Mangifera indica	Aamba	NA	NA
4	Emblica officinalis	Aawla	NA	NA
5	Anthocephalus cadamba	Kadamb	NA	NA
6	Azardiracta indica	Kalu Nimb	NA	NA
7	Tectona grandis	Saawan	NA	NA
8	Albizia lebbeck	Shirish	NA	NA
9	Bombax ceiba	Shemal	NA	NA
10	Dalbergia latifolia	Shisham	NA	NA
11	Anogeissus latifolia	Dhawada	NA	NA
12	Haldina cordifolia	Karam	NA	NA
13	Haldina cordifolia	Karam	NA	NA
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	NA	NA	NA	
47.Energy				


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Power requirement:	Source of power supply :	Maharashtra State Electricity Board 1150 kVA
	During Construction Phase: (Demand Load)	1150
	DG set as Power back-up during construction phase	1 x 125 kVA capacity
	During Operation phase (Connected load):	1150
	During Operation phase (Demand load):	-
	Transformer:	-
	DG set as Power back-up during operation phase:	Existing DGs 2 X 630 KVA, 1 X 250 KVA, 1 X 300 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	-

48. Energy saving by non-conventional method:

NA

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50. Details of pollution control Systems

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


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

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Existing DGs 2 X 630 KVA, 1 X 250 KVA, 1 X 300 KVA	Dust	0.5
2	Hygiene & Sanitation	Worker Health	2
3	Environmental Monitoring	Air, Water, Soil Noise sampling & testing	0.5
4	Medical Health check up of workers	Worker Health	0.5
5	-	-	-

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/ Noise Pollution Control	Dust suppression , acoustic enclosure , vapour recovery system for tanks	3	0.3
2	Water pollution control/rain water	-	1	0.3
3	Occupational Health	Routine health check up	0.5	0.1
4	Solid Waste Management	-	0.5	0.1
5	Green Belt Development	Tree plantation and green area development	1	0.5
6	Environmental Monitoring	Air, water, noise sampling	0.5	0.2

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


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

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Separate Entry & Exit gate, Separate Emergency Exit are made available.
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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	16.06 Cr
	Area per car:	-
	Area per car:	-
	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):	-
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None in 10 KM radius of the plant area
	Category as per schedule of EIA Notification sheet	6(b) Isolated storage & Handling of Hazardous chemicals
	Court cases pending if any	No
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-05-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP provided Effluent Treatment Plant. PP proposes to provide Sewage Treatment Plant for the treatment of domestic sewage.
Drainage pattern of the project	The drains are provided considering the contour of the plot.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site. PP to obtain permission to draw ground water from the competent Authority.


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Solid Waste Management	Construction waste will be used for back filling and road construction, metal scrap will be sold to metal recyclers. Hazardous waste will be sent to CHWTSDF for disposal.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality are within the prescribed limits at project site. PP to identify the sources of noise pollution and take measures to reduce noise level on site like provision of acoustic enclosures, isolation of noise making equipment, etc.
Energy Management	Connected load during operation phase will be 1150 KvA which will be supplied by MSEDCL. PP will also use two numbers of 630KvA, one number of 250 kvA and one number of 300 KvA D G Sets on site.
Traffic circulation system and risk assessment	PP provided adequate space for movement of vehicles in the premises.
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP carried out risk assessment and prepared disaster management plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes EMP cost of Rs. 3.5 Lakhs during construction phase, Rs. 6.5 lakhs as capital cost and Rs. 1.5 Lakhs as O & M cost for the maintenance of environmental parameters.
Any other issues related to environmental sustainability	PP to include oil and grease parameter in the monitoring schedule of soil and water.

Brief information of the project by SEAC



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The ToR was granted by the SEAC - I in its 129th meeting held on 16-18th June,2016. Public Consultation was carried out on 09.02.2017

PP submitted the EIA/EMP and Public Hearing report for the appraisal in 148th meeting held on 27.02.2018 wherein the proposal was deferred till submission of compliance of following points.

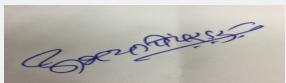
1. PP to obtain permission from competent Authority to draw ground water.
2. PP to submit layout showing 33% green belt; PP to provide drip irrigation for the development of green belt.
3. PP to provide STP and ETP for the treatment of domestic sewage and process effluent.
4. PP to submit point wise compliance and action plan of all the issues raised in the Public Hearing.
5. PP to provide Vapor Recovery System to the storage tanks to prevent emission of vapors to the atmosphere.
6. PP to make provision of 2.5% funds for CSR in consultation with the District Collector. PP to maintain separate account for CSR and EMP.
7. PP to provide acoustic enclosure to all the DG sets on site.

Now PP submitted the compliance of above points.

The proposal was again considered in the 152nd meeting held on 12.06.2018 where in the proposal was deferred till submission of following points,


1. PP to submit revised layout plan showing area marked for green belt along with its dimensions. PP also to mark area for parking as per prevailing rules on the layout plan.
2. PP to provide details of CER plan as per OM dated 01.05.2018 along with timelines for its implementation.

DECISION OF SEAC


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


Specific Conditions by SEAC:

- 1) PP to obtain permission from competent Authority to draw ground water.
- 2) PP to identify the sources of noise pollution and take measures to reduce noise level on site like provision of acoustic enclosures, isolation of noise making equipment, etc.

FINAL RECOMMENDATION


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

SEAC-AGENDA-00000000129


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155th Meeting of State Level Expert Appraisal Committee (SEAC-1)

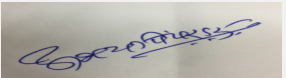
SEAC Meeting number: 155th Meeting Date September 6, 2018

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
	IOD/IOA/Concession/Plan Approval Number: MIDC Sanction No. : C88810 of 16 dated 06/09/2016
	Approved Built-up Area: 15101.87
13.Note on the initiated work (If applicable)	Construction of ware house which is less than 1,50,000m2 is completed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	50,000.00
16.Deductions	Not applicable
17.Net Plot area	50,000.00
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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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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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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Dry season:	Source of water	MIDC, Chakan
	Fresh water (CMD):	3.6 + Vessel Washing : 3.0 = 6.6
	Recycled water - Flushing (CMD):	4.5
	Recycled water - Gardening (CMD):	1.8
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	12.9
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not required; since pumps maintain positive pressure in fire hydrant at all times
	Excess treated water	Soak pit
Wet season:	Source of water	MIDC, Chakan
	Fresh water (CMD):	3.6 + Vessel Washing : 3.0 = 6.6
	Recycled water - Flushing (CMD):	4.5
	Recycled water - Gardening (CMD):	1.8
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	12.9
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not required; since pumps maintain positive pressure in fire hydrant at all times
	Excess treated water	Soak pit
Details of Swimming pool (If any)	NA	


33.Details of Total water consumed

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


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


37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	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			

43.Green Belt Development	Total RG area :	388.50
	No of trees to be cut :	Nil
	Number of trees to be planted :	252 Nos.
	List of proposed native trees :	Ashoka
	Timeline for completion of plantation :	Till the completion of the project. 173 nos. already planted.

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

Serial Number	Name of the plant	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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


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

b) Operation Phase (with Break-up):

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 clas	50 T Maximum storage	50 T Maximum storage	Nil	Same as above	Same as above
Class-5 and its subclass (oxides & peroxides)UN Hazard Classes	Proposed	open yard storage - proposed quantities of dangerous class	50 T Maximum storage	50 T Maximum storage	Nil	Same as above	Same as above


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Class-6 and its subclass (Toxic)UN Hazard Classes	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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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	As per requirement
	Area per car:	As per requirement
	Area per car:	As per requirement
	Number of 2-Wheelers as approved by competent authority:	12 sq. ft per vehicle
	Number of 4-Wheelers as approved by competent authority:	11
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	6 (b)
	Court cases pending if any	No

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	<p>Other Relevant Informations</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 & 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"> 1) Class-2 and its subclass (gases): eg.-Helium, R134a, R410A, Butane, Propane etc. 2) Class-3 and its subclass (flammable liquids): eg- Isopropanol, Methanol, MIBK, Toluene, LAB, Acetone / acetone oils, Adhesives, Paints, lacquers, varnishes etc. 3) Class-4 and its subclass (flammable solids): eg.- Phosphorus, Sulphur etc. 4) Class-5 and its subclass (oxides & peroxides): eg.- Potassium nitrate, Aluminium nitrate etc. 5) Class-6 and its subclass (Toxic and Infectious): eg.- Epichlohydrine, MDI, TDI etc. 6) Class-8 (corrosives) eg.- Acetic, acid, Carboic acid, phenol, Hydrogen fluoride, Iodine, Morpholine 7) Class-9 and its subclass (Miscellaneous): eg.- Polychlorinated biphenyls, Polychlorinated terphenyls, Dibromodifluoromethane, Benzaldehyde etc.
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	<p>Have you previously submitted Application online on MOEF Website.</p>	<p>No</p>
	<p>Date of online submission</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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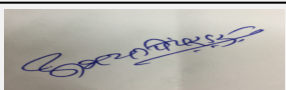
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44. Green Belt Development	List of proposed Native trees: Ashoka	List of proposed Native trees:given below
45.Number and list of trees species to be planted in the ground	Total No. of tress =252 Nos. 1) Delonix Regia (Gulmohor) =75 2)Callistemon lanceolatus (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

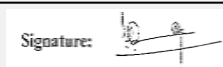
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes to provide Sewage Treatment plant.
Drainage pattern of the project	Stoem water drains are provided at site.
Ground water parameters	At few locations the ground water is exceeding the limits of chlorides and TDS due to geographic conditions.
Solid Waste Management	Hazardous waste will be dosposed off at CHWTSDF site.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality parameters are within prescribed limits at project site. PP to identify the sources of noise pollution and take measures to reduce noise level on site like provision of acoustic enclosures, isolation of noise making equipments, etc.
Energy Management	Demand load will be 500 KVA which will be supplied by MSEDCL. PP will also use a DG set having capacity 500 KVA.
Traffic circulation system and risk assessment	PP provided internal roads with six meter width and nine meters turning radius.
Landscape Plan	PP proposes to provide 33% green belt on the additional land to be obtained form MIDC.
Disaster management system and risk assessment	PP carried out Risk Assessment and prepared Disaster Management Plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes EMP cost of Rs. 126.02 Lakhs as capital cost and Rs. 23.14 Lakhs as O & M cost for the environmental paramters.


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Any other issues related to environmental sustainability

PP to include Oil & Grease parameter in the soil and ground water samples monitoring.


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



The proposal was considered in the 149th meeting of SEAC-1 held on 03.04.2018 wherein the proposal was deferrred 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.

The proposal was considered in the 152nd meeting of SEAC-1 held on 13.06.2018 wherein the proposal was deferrred till submission of compliance of followin gpoints.

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.

Now PP submitted the compliance of above points.

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 155th Meeting Date: September 6, 2018	Page 61 of 98	 Dr. Umakant Dangat (Chairman SEAC-I)
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DECISION OF SEAC

After deliberations with the PP and their accredited consultant SEAC decided to recommend the proposal for prior Environment Clearance subject to the following conditions.


Specific Conditions by SEAC:

- 1) PP to submit approval letter from MIDC Authorities for allotment of land to be used for the development of green belt.
- 2) PP to implement the CER plan in consultation with the District Collector.
- 3) PP to identify the sources of noise pollution and take measures to reduce noise level on site like provision of acoustic enclosures, isolation of noise making equipments, etc.
- 4) PP to include Oil & Grease parameter in the soil and ground water samples monitoring.

FINAL RECOMMENDATION

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

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SEAC-I)

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155th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 155th Meeting Date September 6, 2018

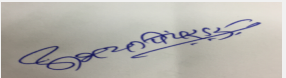
Subject: Environment Clearance for Tyre pyrolysis oil [TPO] for M/s Skashi industries.

Is a Violation Case: No

1.Name of Project	Sakshi Industries
2.Type of institution	Private
3.Name of Project Proponent	tyre pyrolysis oil
4.Name of Consultant	self
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	new project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	no
8.Location of the project	A-233
9.Taluka	shrirampur
10.Village	khnadala
Correspondence Name:	Mr. Ajay Macchindra Raut
Room Number:	747
Floor:	Ground
Building Name:	Laxman Niwas
Road/Street Name:	at post kelwad
Locality:	tal Rahata
City:	Ahmednagar
11.Area of the project	MIDC AREA
12.IOD/IOA/Concession/Plan Approval Number	NO
	IOD/IOA/Concession/Plan Approval Number: NO
	Approved Built-up Area: 774.00
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.)	1500.00
16.Deductions	0.00
17.Net Plot area	1500.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 772.0
	b) Non FSI area (sq. m.): 728
	c) Total BUA area (sq. m.): 1500.00
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 772.00
	Approved Non FSI area (sq. m.): 850.00
	Date of Approval: 07-07-2017
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	180.95


22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
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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))	30.00 Meter		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable.		
29.Existing structure (s) if any	Not applicable		
30.Details of the demolition with disposal (If applicable)	Not applicable		

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	pyrolysis oil	0.00	220.0	220.0
2	carbon black	0.00	150.0	150.0


32.Total Water Requirement

Dry season:	Source of water	MIDC TAP WATER
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	1.0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


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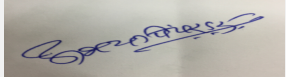
Wet season:	Source of water	MIDC TAP WATER
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	1.0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Details of Swimming pool (If any) Not applicable

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0.0	0.7	0.7	0.00	0.00	0.00	0.00	0.7	0.7
Industrial Process	0.0	0.3	0.3	0.00	0.00	0.00	0.00	0.3	0.3

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	0.00
	Budgetary allocation (Capital cost) :	0.00
	Budgetary allocation (O & M cost) :	0.00
	Details of UGT tanks if any :	NA


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35.Storm water drainage	Natural water drainage pattern:	NA
	Quantity of storm water:	NA
	Size of SWD:	0.00

Sewage and Waste water	Sewage generation in KLD:	NA
	STP technology:	NA
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	0.00
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA
	Disposal of the construction waste debris:	NA

Waste generation in the operation Phase:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA


Mode of Disposal of waste:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	500.00

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	0
	O & M cost:	0


37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		0.00			
Amount of treated effluent recycled :		0.00			
Amount of water send to the CETP:		0.00			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	0	0	0	0	NA

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	Auto IGNITION DEVICE	ELECTRICITY	01	30.50	0.30	350

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	wood	0.00	10000	10000
2	gas	0.00	2000	2000

41.Source of Fuel gas coming from reactor is refused for the combustion processes . arrengment done while installing plant.

42.Mode of Transportation of fuel to site wood is transport from road ways.

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43.Green Belt Development	Total RG area :	NA
	No of trees to be cut :	NA
	Number of trees to be planted :	NOT NOW BUT PLINTTING AFTER THE OPERTAION OF UNIT
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA


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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	NA	0.00	NA

45.Total quantity of plants on ground


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

Serial Number	Name	C/C Distance	Area m2


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1	NA	0.00	0.00
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47. Energy

Power requirement:	Source of power supply :	MSEB ELECTRIC SUPPLY
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	60.0 kVA
	During Operation phase (Demand load):	80.5 kVA
	Transformer:	60 kVA
	DG set as Power back-up during operation phase:	80.5 kVA
	Fuel used:	DIESEL
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

NA

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	0

50. Details of pollution control Systems


Source	Existing pollution control system	Proposed to be installed
Excess Gas Generation In Reactor	NA	Auto Ignition Device
Moisture from oil	NA	ETP
smoke generated in heating processe	NA	Scrubber Desulfurization System

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	180.95
	O & M cost:	0.00

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
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1	NA	NA	0.0				
b) Operation Phase (with Break-up):							
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)			
1	NA	NA	0.0	0.0			
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)							
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	0	0	0	NA	NA
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	NA					
Parking details:	Number and area of basement:	NA					
	Number and area of podia:	NA					
	Total Parking area:	NA					
	Area per car:	NA					
	Area per car:	NA					
	Number of 2-Wheelers as approved by competent authority:	NA					
	Number of 4-Wheelers as approved by competent authority:	NA					
	Public Transport:	NA					
	Width of all Internal roads (m):	NA					
	CRZ/ RRZ clearance obtain, if any:	NA					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA					


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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

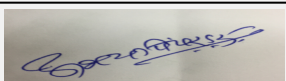
Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management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

Brief information of the project by SEAC

DECISION OF SEAC

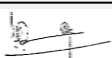
PP remained absent.

Specific Conditions by SEAC:


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FINAL RECOMMENDATION

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


SEAC-AGENDA-00000000129



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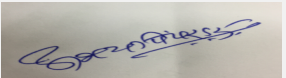
155th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 155th Meeting Date September 6, 2018

Subject: Environment Clearance for proposed expansion project for manufacturing of dye intermediate by Multi Organics Pvt. Ltd., at Plot No. A-1, MIDC Industrial Area, Ghuggus Road, Padoli, Taluka & District Chandrapur, Maharashtra 442 406

Is a Violation Case: Yes

1.Name of Project	Proposed expansion project for manufacturing of dye intermediate Multi Organics Pvt. Ltd. at Plot No. A-1, MIDC Industrial Area, Ghuggus Road, Padoli, Taluka & District Chandrapur, Maharashtra 442 406.
2.Type of institution	Private
3.Name of Project Proponent	Multi Organics Pvt. Ltd.
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial - Manufacturing of Dye Intermediate
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A-1, MIDC Padoli, Chandrapur, Maharashtra
9.Taluka	Chandrapur
10.Village	Chinchala
Correspondence Name:	Abhijeet B. Birewar
Room Number:	503
Floor:	NA
Building Name:	Keshava, Bandra-Kurla Complex,
Road/Street Name:	NA
Locality:	Bandra
City:	Mumbai
11.Area of the project	MIDC, Chandrapur
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 20235
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.)	20235
16.Deductions	NA
17.Net Plot area	20235
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 20235
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 20235
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 13-04-2018
19.Total ground coverage (m2)	20235
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	496720000


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22. Number of buildings & its configuration

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

31. Production Details


Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Beta Naphthol	525	375	900
2	Alpha Naphthol	100	150	250
3	1-Fluoronaphthalene	25	25	50
4	Total	650	550	1200
5	By-Product	-	-	-
6	Sodium Sulphate	500	400	900
7	Sodium Sulphite	725	600	1325
8	Tar	90	70	160
9	Calcium Sulphate	185	80	265
10	Total	1500	1150	2650

32. Total Water Requirement


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


33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	40	10	50	08	02	10	32	08	40
Industrial Process	115	100	215	106	94	200	09	6	15
Cooling tower & thermopack	285	240	525	264	230	494	21	10	31


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Fresh water requirement	440	350	790	378	326	704	62	24	86
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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	Tank of 5 m3
	Location of the RWH tank(s):	Near stores building and admin office building
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	03 lac.
	Budgetary allocation (O & M cost) :	Rs. 0.5 lac./ annum
	Details of UGT tanks if any :	Not Available

35.Storm water drainage	Natural water drainage pattern:	As per slope available at project site
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable

Sewage and Waste water	Sewage generation in KLD:	40
	STP technology:	Proposed STP
	Capacity of STP (CMD):	60
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	Boiler Ash about 31 T/D
	Wet waste:	Used Oil = 40.0 LPM • FSR Ash = 0.30 TPD • Chemical Sludge from ETP =0.20 TPD • Spent carbon from ETP = 0.05 TPD
	Hazardous waste:	Used Oil = 40.0 LPM • FSR Ash = 0.30 TPD • Chemical Sludge from ETP =0.20 TPD • Spent carbon from ETP = 0.05 TPD
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP Sludge will be used for gardening
	Others if any:	Not Applicable


Mode of Disposal of waste:	Dry waste:	Send to Brick manufacturers & land filling
	Wet waste:	CHWTSDF, Sale to registered reprocessor
	Hazardous waste:	CHWTSDF, Sale to registered reprocessor
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	Plant Area, Raw material storage area, Finished Goods storage, Office Building, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & RO, Green belt area
	Area for the storage of waste & other material:	1400.00 m ²
	Area for machinery:	2743.43 m ²
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Included in capital cost
	O & M cost:	Rs. 10 lacs./year

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	8.0 to 9.5	Not Applicable as project is ZLD	ot Applicable as project is ZLD
2	COD	mg/lit	1500	Not Applicable as project is ZLD	ot Applicable as project is ZLD
3	BOD (3 days 27° C)	mg/lit	700	Not Applicable as project is ZLD	ot Applicable as project is ZLD
4	TSS	mg/lit	300	Not Applicable as project is ZLD	ot Applicable as project is ZLD
5	Oil & Grease	mg/lit	10	Not Applicable as project is ZLD	ot Applicable as project is ZLD
Amount of effluent generation (CMD):		46.0 CMD			
Capacity of the ETP:		100.0 CMD			
Amount of treated effluent recycled :		46.0 CMD			
Amount of water send to the CETP:		Not Applicable as this unit will be run as Zero Liquid Discharge (ZLD) Unit			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Effluent from process having high TDS will treat in MEE, and low TDS will treat in ETP & RO permeate will be recycle and reuse and RO reject will be treated in MEE. Thus, unit will be Complete ZLD unit.			
Disposal of the ETP sludge		CHWTSDF			


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical Sludge from ETP	35.3	TPD	0.10	0.10	0.20	CHWTSDF
2	FSR Ash	26.2	TPD	0.15	0.15	0.30	CHWTSDF
3	Used Oil	5.1	LPM	25.00	15.00	40.00	Sale to registered reprocessor


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4	Spent carbon from ETP	36.2	TPD	00.00	0.05	0.05	CHWTSDF
5	Non-Hazardous Waste	-	-	-	-	-	-
6	Discarded drums and containers	-	Kg/M	0	100	100	Recycler / sell to approved vendor
7	Polyethylene Bags	-	Kg/M	0	1000	1000	Reused for byproducts & hazardous waste packing / sell to approved vendor
8	Paper Bag	-	Kg/M	0	10	10	Recycler / sell to approved vendor
9	Light density polyethylene bag	-	Kg/M	0	100	100	Recycler / sell to approved vendor


39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler- 1 (4 TPH) (Existing, Stand by)	Coal/Biofuel/Briquettes/ Bagas-	01	27 m.	0.65 m	160 OC
2	Boiler - 2 (4.5 TPH) (Existing, Stand by)	Coal/Biofuel/Briquettes/ Bagas	01	27 m.	0.65 m	160 OC
3	Boiler - 3 (4 TPH) (Existing)	Coal/Biofuel/Briquettes/ Bagas	01	27 m.	0.65 m	160 OC
4	Boiler - 4 (9 TPH) (Existing)	Coal/Biofuel/Briquettes/ Bagas	01	30 m.	1.1 m	160 OC
5	8 Lac Kcal/hr (Existing)	FO/LDO/ HSD	01	27 m.	0.6 m	160 OC
6	6 Lac Kcal/hr (Existing)	FO/LDO/ HSD	01	16m	0.5 m	160 OC
7	15 Lac Kcal/hr (Existing)	FO/LDO/ HSD	01	27m	0.65 m	160 OC
8	D G Sets 320 KVA (Existing)	HSD, 87 lit./hr.	01	9m	-	-
9	D G Sets 100 KVA (Existing)	HSD, 28 lit./hr.	01	6.5m	-	-
10	FSR (Existing)	FO/LDO/ HSD	01	27m	0.45 m	90 OC
11	Boiler - 5 (20 TPH) (Proposed)	Coal/Biofuel/Briquettes/ Bagas	01	42m	1.2 m	160 OC
12	10 Lac Kcal/hr (Proposed)	Coal/Biofuel/Briquettes/ Bagas	01	31m	0.65 m	160 OC

40.Details of Fuel to be used


Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal/Biofuel/ Briquettes/ Bagas	4345 Kg/hr	3205 Kg/hr	7600 Kg/hr
2	FO/LDO/ HSD	150 Kg/hr	00	150 Kg/hr
3	HSD for DG Set	115 lit./hr	00	115 lit./hr

41.Source of Fuel	Local
42.Mode of Transportation of fuel to site	By Road


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43.Green Belt Development	Total RG area :	6677.55 m ²
	No of trees to be cut :	Trees are not available at project side
	Number of trees to be planted :	550.00 nos.
	List of proposed native trees :	Terminalia arjuna (Arjun), Bauhinia racemosa (Apta), Ficus benghalensis (Vad), Ficus religiosa (Pimpal), Polyalthia longifolia (Ashok), Azadirachta indica (Kaduneem), Cassia fistula (Bahava), Neolamarckia cadamba (Kadamb), Terminalia tomentosa (Ain), Lagerstroemia speciosa (Taman), Bougainvillea spectabilis (Bouganvel), Lantana camara (Ghaneri), Calatropis gigentia (Rui), Hibiscus rosasinensis (Jaswand), Nerium indicum (Kanher)
	Timeline for completion of plantation :	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	Terminalia arjuna	Arjun	75	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficus benghalensis	Vad	20	Pollution resistant and Native
4	Ficus religiosa	Pimpal	75	Pollution resistant and Native
5	Polyalthia longifolia	Ashok	20	Pollution resistant and Native
6	Azadirachta indica	Kaduneem	25	Pollution resistant and Native
7	Cassia fistula	Bahava	20	Pollution resistant and Native
8	Neolamarckia cadamba	Kadamb	75	Pollution resistant and Native
9	Terminalia tomentosa	Ain	25	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	30	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	50	Pollution resistant and Native
12	Lantana camara	Ghaneri	20	Pollution resistant and Native
13	Calatropis gigentia	Rui	25	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	50	Pollution resistant and Native
15	Nerium indicum	Kanher	20	Pollution resistant and Native

45.Total quantity of plants on ground

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

Serial Number	Name	C/C Distance	Area m ²
1	NA	NA	NA

47.Energy


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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	3000 KVA
	During Operation phase (Demand load):	2550 KVA
	Transformer:	2500 KVA
	DG set as Power back-up during operation phase:	320 KVA (1 no.) & 100 KVA (1 no.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line is passing through the plot

48. Energy saving by non-conventional method:

NIL

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	tack of adequate height, multiple cyclone separators, Bag filter	Stack of adequate height, multiple cyclone separators, Bag filter
Water	MEE, ETP & RO	MEE, ETP & RO
Noise	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Solid Waste	Disposal to CHWTSDF	Disposal to CHWTSDF


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

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	12.0
2	Debris	Solid Waste	5.0
3	Construction motor	Noise Pollution	3.0

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	Provision of stacks of height as per CPCB, multiple cyclone separators, Bag filter	100	3
2	Water pollution control	MEE, ETP & RO operation cost, Rain water harvesting	500	200
3	Noise pollution Control	Acoustic enclosure/Ant vibration pads	10	1
4	Environment Monitoring budget	Environment Monitoring	30	8
5	Occupational health care	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities consumables, Control of fugitive emissions	5	10
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	5	12
7	Green belt	Development & Maintenance	5	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
Naphthalene	Solid	Godown	2000	2000	1500	Imported/Local	Road
Sulphuric Acid	Liquid	tank	175	170	1800	Local	Road
Caustic Soda Lye	Liquid	tank	30	25	300	Local	Road
Caustic Soda Flakes	Solid	Godown	500	400	1000	Local	Road
Lime Power	Solid	Godown	50	50	100	Local	Road
1-naphthalamine	Solid	Godown	50	50	100	Local	Road
NaN ₂	Solid	Godown	10	10	50	Local	Road
NaBF ₄	Solid	Godown	50	50	100	Local	Road

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	NA
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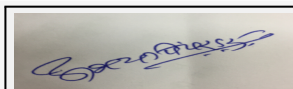
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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	1665
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No Protected area within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5(f) B1
	Court cases pending if any	NA
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-04-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

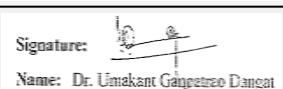
Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable



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Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable
Brief information of the project by SEAC	
<p>PP submitted their application for grant of ToR under category 5(f)B1 for violation project and expansion as per amended Notification issued by MoEF&CC dated 08.03.2018,</p> <p>PP earlier applied for the grant of ToR to the MoEF&CC on 13.04.2018 and SEIAA vide Unique ID No1262.. on 13th April, 2018 on SEIAA portal for grant of ToR as a case of violation and expansion.</p>	
DECISION OF SEAC	

SEAC-AGENDA/200000129

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

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.

PP to refer to the Office Memorandum issued by MoEF&CC dated 19.08.2018 with respect to the standard conditions to be stipulated in the Environment Clearance letter for the Pharmaceutical industry to identify the impact of operations on the environment attributes and implement appropriate mitigation measures to reduce the impact.

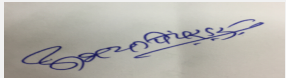
PP to identify all such activities on site which have impacted on the various verticles of the environment like Water, Air, Soil and Noise etc and compare it with the standard parameters to assess the damage as referred in the Notification dated 08.03.2018

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to 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. PP also to carry out heat intergration study to reuse the waste heat generated from the unit operations.
- 4) PP to explore possibilities of process re engineering, re optimisation and intensification so as to reduce the quantities of by products and increase the quantities of the product. PP to include same in the EIA report.
- 5) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 6) PP to submit structural stability certificate to accommodate proposed expansion in the existing units.
- 7) PP to submit year wise comparative of the consumption of the resources like water, energy, raw material etc. with respect to the products manufactured and proposed to be manufactured after expansion.
- 8) PP to submit project site details (location, top sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
- 9) PP to submit details of Forest and Wild Life ecosensitive zones if any in the study area and within the range of 5 km
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
- 11) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
- 12) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.
- 13) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 14) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
- 15) 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.
- 16) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 17) PP to provide new and renewable energy sources for the illumination of the office building and street lights


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

155th Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 155th Meeting Date September 6, 2018

Subject: Environment Clearance for Environment Clearance for change in product mix project for Manufacturing of Dye Intermediates and Specialty Chemicals under category 5 (f) by M/s. Abhideep Chemicals Pvt. Ltd. at Plot No. A-2, MIDC Area, Ghuggus Road, Chichala, Dist. Chandrapur, Maharashtra 442406

Is a Violation Case: Yes


1.Name of Project	Change in product mix project for manufacturing of Dye Intermediates and Specialty Chemicals at Plot No. A-2, MIDC Area, Ghuggus Road, Chichala, Dist. Chandrapur, Maharashtra 442406
2.Type of institution	Private
3.Name of Project Proponent	M/s. Abhideep Chemicals Pvt. Ltd.
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Dye Intermediates specialty chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	Change in product mix
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A-2, MIDC Area, Ghuggus Road, Padoli, Dist. Chandrapur Maharashtra 442406
9.Taluka	Chandrapur
10.Village	Padoli
Correspondence Name:	Mr. Abhijeet B. Birewar
Room Number:	503
Floor:	--
Building Name:	Keshava
Road/Street Name:	Bandra Kurla Complex
Locality:	Bandra East
City:	Mumbai
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area: 15208
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	15208
16.Deductions	Not applicable
17.Net Plot area	15208
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.): 15208
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable Approved Non FSI area (sq. m.): Not applicable Date of Approval: 18-04-2018
19.Total ground coverage (m2)	3636.36
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24%
21.Estimated cost of the project	132500000

22.Number of buildings & its configuration


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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	9 m		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m		
29.Existing structure (s) if any	Manufacturing building, administration, raw material and finished goods storage,maintenance workshop.		
30.Details of the demolition with disposal (If applicable)	Not applicable		

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Beta Oxy Naphthoie (Bon) Acid	100	00	100
2	Pamoic Acid	7.5	00	7.5
3	Di-Sodium Pamoate	4.17	00	4.17
4	BNSA (Pure)	8.33	00	8.33
5	1-Hyrdoxy-2-Naphthoic Acid	4.17	00	4.17
6	1-Hydroxy-2-Naphthoic Acid-Phenyl Ester	2.5	00	2.5
7	1-Naphthalene Acetic Acid	2.0	00	2.0
8	1-Naphthalene Acetamide	2.0	00	2.0
9	Methyl Phenyl Hydantoin	40	00	40
10	OR	--	--	--
11	m-PhenoxyBenzaldehyde	184	00	184
12	OR	--	--	--
13	Beta Naphthol	184	00	184
14	OR	--	--	--
15	1,3-Dibromo-5-methyl-5 phenyl hydantoin	--	00	--


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16	2,2 Biphenol	--	00	--
17	3-Ethyl Amino 4-Methyl Phenol	--	00	--
18	p-PhenyleneDiamine	--	00	--
19	m-Hydroxyacetophenone	--	00	--
20	1,2,3,4 butane tetra carboxylic acid	--	00	--
21	P Mehtoxy phenyl acetic acid	--	00	--
22	3-Chloro 2-Methyl Anisole	--	00	--
23	Binol	--	00	--
24	2-phenyl-3-3-Bis(4-Hydroxy phenol) Phthalinidine	--	00	--
25	2-Hydroxy 6-Naphthoic acid	--	00	--
26	Cyclopropane Carboxylic Acid (New Product)	--	00	--
27	Total	184	00	184
28	Note: We shall manufacture 184 MT/M either one of the product or combination of the products. The total manufacture quantity will not exceed 184 MT/M	--	--	--
29	By-Product	--	--	--
30	Tar	13.57	00	13.57
31	Sodium Bisulphite	00	51.2	51.2
32	Sodium Chloride	00	34.8	34.8
33	Methanol	00	34	34
34	Total	13.57	120	133.57

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

Details of Swimming pool (If any)

Not applicable

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	12	0	12	3	0	3	9	0	9
Industrial Process	83.5	0	83.5	9	0	9	74.5	0	74.5
Cooling tower & thermopack	117.5	0	117.5	92.5	0	92.5	25	0	25
Fresh water requirement	213	0	213	104.5	0	104.5	108.5	0	108.5



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	10-15 m below ground level
	Size and no of RWH tank(s) and Quantity:	We propose 5 m ³ collection tank for roof top rain water rain water harvesting.
	Location of the RWH tank(s):	Near Office Building
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	3lac.
	Budgetary allocation (O & M cost) :	Rs. 0.4lac./annum
	Details of UGT tanks if any :	No underground tank. Only roof top water collection facility will be provided.
35.Storm water drainage	Natural water drainage pattern:	Available at site.
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	Sewage generation in KLD:	9 CMD
	STP technology:	9 CMD will be send to sister concern M/s. Multi Organics, for treatment through proposed STP
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	Coal Ash 720 TPA
	Wet waste:	Not Applicable
	Hazardous waste:	Spent Oil 200 Lit/A
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable


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Mode of Disposal of waste:	Dry waste:	Sold to brick manufacturer.
	Wet waste:	Not Applicable
	Hazardous waste:	Sold to Authorized Recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	Manufacturing area, administration building, raw material and finished goods storage area, Utility area, Parking area, internal roads & Green belt area.
	Area for the storage of waste & other material:	Raw material/ Finished Good Storage Area -1526.44 Sq.m
	Area for machinery:	1252.73 sq.m.
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Included in total capital cost
	O & M cost:	Rs. 3 lacs./year

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	PH	--	8.0 - 9.5	Not Applicable as project is ZLD	Not Applicable as project is ZLD
2	COD	Mg/Lit.	4000	Not Applicable as project is ZLD	Not Applicable as project is ZLD
3	BOD (3 days at 27 OC)	Mg/Lit.	1800	Not Applicable as project is ZLD	Not Applicable as project is ZLD
4	TSS	Mg/Lit.	300	Not Applicable as project is ZLD	Not Applicable as project is ZLD
5	Oil & Grease	Mg/Lit.	10	Not Applicable as project is ZLD	Not Applicable as project is ZLD
Amount of effluent generation (CMD):		Industrial - 99.5 CMD Domestic - 9 CMD			
Capacity of the ETP:		Trade effluent will be sent to sister concern for treatment M/s. Multi Organics, for treatment through proposed ETP100 CMD.			
Amount of treated effluent recycled :		99.5 CMD			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Liquid Effluent - High TDS & high COD Stream from process is being sent to MEE. Blowdown from utilities, floor washing etc. is being treated in full-fledged ETP plant. The treated effluent is sent to RO for further treatment. This project is run on completely Zero Liquid Discharge (ZLD) basis			
Disposal of the ETP sludge		Not Applicable			


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	Ltr/A	200	0	200	Sale to authorized recycler
2	Non-Hazardous Waste	-	-	-	-	-	-


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3	Boiler Ash	-	(MT/A)	720	0	720	Sale to Brick Manufacturer
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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	Boiler - 2 TPH (Existing , Stand By)	Coal - 7.2 TPD	1	27 m from ground	0.65	125 0C
2	Boiler -2.5 TPH (Existing)	Coal - 9.6 TPD	1	27 m from ground	0.65	125 0C
3	Thermopack 6 lac Kcal/hr (Existing)	Coal - 2.4 TPD	1	16 m from ground	0.55	1250C
4	DG Set - 250 KVA (Existing)	HSD - 53 lit./hr	1	3.5 m above enclosure	0.15	140 0C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	19.2 TPD	Not Applicable	19.2 TPD
2	HSD	53 Ltr/hr	Not Applicable	53 Ltr/hr

41.Source of Fuel

Local

42.Mode of Transportation of fuel to site


By Road

43.Green Belt Development

Total RG area :	5024 sq.m.
No of trees to be cut :	Nil
Number of trees to be planted :	500,0 nos.
List of proposed native trees :	Terminalia arjuna(Arjun), Bauhinia racemosa(Apta), Ficusbenghalensis(Vad), Ficusreligiosa(Pimpal), Polyalthialongifolia(Ashok), Azadirachtaindica(Kaduneem), Cassia fistula (Bahava), Neolamarckiacadamba(Kadamb), Teminaliatomentosa(Ain), Lagerstroemia speciosa(Taman), Bougainvillea spectabilis(Bouganvel), Lantana camara(Ghaneri), Calatropisgigientia(Rui), Hibiscus rosasinensis(Jaswand), Neriumindicum(Kanher)
Timeline for completion of plantation :	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	Terminaliaarjuna	Arjun	75	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficusbenghalensis	Vad	20	Pollution resistant and Native Pollution resistant and Native
4	Ficusreligiosa	Pimpal	75	Pollution resistant and Native
5	Polyalthialongifolia	Ashok	20	Pollution resistant and Native
6	Azadirachtaindica	Kaduneem	25	Pollution resistant and Native


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7	Cassia fistula	Bahava	20	Pollution resistant and Native
8	Neolamarckiacadamba	Kadamb	75	Pollution resistant and Native
9	Teminaliatomentosa	Ain	25	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	30	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	25	Pollution resistant and Native
12	Lantana camara	Ghaneri	20	Pollution resistant and Native
13	Calatropisgigientia	Rui	25	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	25	Pollution resistant and Native
15	Neriumindicum	Kanher	20	Pollution resistant and Native

45.Total quantity of plants on ground

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

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

47.Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	496 KW
	During Operation phase (Demand load):	335 KW
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	1 DG set- 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension lines are passing through the plot

48.Energy saving by non-conventional method:


Nil

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Air	Multiple cyclone and dust collector followed by stack of adequate height.	Multiple cyclone and dust collector followed by stack of adequate height.
Water	MEE, ETP & RO	MEE, ETP & RO
Noise	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Solid Waste	Sale to authorized recycler	Sale to authorized recycler

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Multi cyclone and dust collector followed by stack is provided. Scrubbers Provided.	55	6
2	Water pollution control	Single effect evaporator	20	6
3	Noise pollution Control	Acoustic encl./ Ant vibration pads	12	1
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	4	1
5	Environmental Monitoring Budget	Environmental Monitoring	2	1
6	Hazardous waste Storage & disposal	-	3	1
7	Green belt	-	2	0.5
8	Total	-	98	16.5


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
Alpha Naphthol	Solid	RM Storage	0.15	0.15	4.17	Local	By Road



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Alpha Naphthalene Acetic Acid	Solid	RM Storage	0.5	0.5	2.67	Local	By Road
Ammonia	Liquid	RM Storage	0.05	0.05	0.267	Local	By Road
Ammonium Carbonate	Solid	RM Storage	5.0	5.0	26.8	Local	By Road
Acetophenone	Liquid	RM Storage	6.0	6.0	30.8	Local	By Road
AON Acid	Solid	RM Storage	1.5	1.5	7.5	Local	By Road
Beta Naphthol	Solid	RM Storage	4.5	4.5	135	Local	By Road
BON Acid	Solid	RM Storage	0.15	0.15	4.17	Local	By Road
Carbon Dioxide	Gas	RM Storage	1.4	1.4	42	Local	By Road
Caustic Soda Flakes / lye	solid/ Liquid	RM Storage	20	20	185	Local	By Road
Ethanol	Liquid	RM Storage	200 lit	200 lit	0.93	Local	By Road
Di Iso Propyl Ether	Liquid	RM Storage	200 lit	200 lit	0.6	Local	By Road
DSP	Solid	RM Storage	0.5	0.5	9	Local	By Road
Formaldehyde	Solid	RM Storage	0.5	0.5	1.45	Local	By Road
Methanol	Liquid	RM Storage	2500 lit	2500 lit	16	Local	By Road
Mono Chloro Acetic Acid	Liquid	RM Storage	400 lit	400 lit	1.56	Local	By Road
Naphthalene	Solid	RM Storage	8.0	8.0	230	Local	By Road
Phenol	Solid	RM Storage	12.0	12.0	64	Local	By Road
Sodium Cyanide	Solid	RM Storage	4.0	4.0	12.8	Local	By Road
Sodium Hypo Chlorite	Liquid	RM Storage	0.4	0.4	2.4	Local	By Road
Sulfuric Acid	Liquid	RM Storage	25	25	224.5	Local	By Road
Technical BNSA	Solid	RM Storage	0.6	0.6	16.66	Local	By Road
Thionyl Chloride	Liquid	RM Storage	6.0	6.0	64.4	Local	By Road
Toluene	Liquid	RM Storage	200 lit	200 lit	0.7	Local	By Road
n-Ethyl o-toluedine	Liquid	RM Storage	1.0	1.0	7.35	Local	By Road
p-Nitro Aniline	Liquid	RM Storage	1.0	1.0	7.25	Local	By Road
1,2,3,6 Tetra Hydro phthalic Anhydride	Solid	RM Storage	30	30	41.66	Local	By Road
p-methoxyAcetophenone	Solid	RM Storage	1.0	1.0	7.5	Local	By Road
Marpholine	Liquid	RM Storage	1.0	1.0	4.37	Local	By Road
3-Chloro 2- methyl Aniline	Liquid	RM Storage	1.0	1.0	5.33	Local	By Road
Phenophthalene	Solid	RM Storage	1.5	1.5	5	Local	By Road
Di Bezofurane	Solid	RM Storage	1.5	1.5	6.04	Local	By Road
Ferric Chloride	Solid	RM Storage	0.2	0.2	0.2	Local	By Road
Aniline	Liquid	RM Storage	1.0	1.0	5.86	Local	By Road
4- ChloroBenzaldehyde	Liquid	RM Storage	1.0	1.0	93.8	Local	By Road
r-Methyl Phenyl Hydantoin	Solid	RM Storage	1.0	1.0	4	Local	By Road
Sulphur	Solid	RM Storage	0.5	0.5	1.65	Local	By Road
Sodium Hydro sulfide	Solid	RM Storage	1.0	1.0	3.45	Local	By Road
Potassium Hydroxide	Solid	RM Storage	10.0	10.0	110	Local	By Road
Potassium Carbonate	Solid	RM Storage	0.5	0.5	0.725	Local	By Road
Oleum	Liquid	RM Storage	6.0	6.0	23.5	Local	By Road
Calcium Carbonate	Solid	RM Storage	2.5	2.5	11.76	Local	By Road
Nitric Acid	Liquid	RM Storage	25.0	25.0	84	Local	By Road
Sodium Nitrite	Solid	RM Storage	1.0	1.0	4.67	Local	By Road
Xylene	Liquid	RM Storage	25 KL	25 KL	3	Local	By Road


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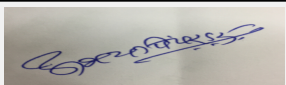
Iso propyl Alcohol	Liquid	RM Storage	200 Lit	200 Lit	0.3	Local	By Road
Acetic Acid	Liquid	RM Storage	250 Lit	250 Lit	0.5	Local	By Road
Di methyl sulphate	Liquid	RM Storage	1.0	1.0	7.1	Local	By Road
Hydrochlric Acid	Liquid	RM Storage	25	25	27.8	Local	By Road
Alluminum Chloride	Solid	RM Storage	20	20	155.8	Local	By Road
Methylene Di Chloride	Liquid	RM Storage	600 Lit	600 Lit	1.88	Local	By Road
Bromine	Liquid	RM Storage	30 Lit	30 Lit	0.09	Local	By Road
Chlorine	Gas	RM Storage	0.05	0.05	0.05	Local	By Road
Ethylene Glycol	Liquid	RM Storage	10	10	47	Local	By Road
Para Tolylsulphonic Acid	Solid	RM Storage	0.1	0.1	0.36	Local	By Road
Diglyme	Solid	RM Storage	0.1	0.1	0.56	Local	By Road
Ethylene Dichloride	Liquid	RM Storage	1.0	1.0	4.3	Local	By Road
Sodium Carbonate	Solid	RM Storage	0.1	0.1	0.5	Local	By Road
Sodium BiCarbonate	Solid	RM Storage	0.1	0.1	0.5	Local	By Road
BT -300	Liquid	RM StorageRM Storage	5000 lit	5000 lit	5	Local	By Road
Gamma Buty Lactone	Liquid	RM Storage	5.0	5.0	46.04	Local	By Road
Sodium Methoxide	Solid	RM Storage	5.0	5.0	34.2	Local	By Road

52.Any Other Information

No Information Available


53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	NA
	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:	Available
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable


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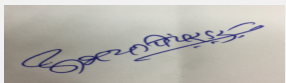

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-04-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC


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PP submitted their application for the grant of ToR under category 5(f)B1 for violation project and expansion as per amended Notification issued by MoEF&CC dated 08.03.2018,

PP earlier applied for the grant of ToR to the MoEF&CC on 13.04.2018 and SEIAA vide Unique ID No1262.. on 13th April, 2018 on SEIAA portal for the grant of ToR as a case of violation and expansion.

DECISION OF SEAC

SEAC-AGENDA-00000000129


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Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below. Public Consultation to be carried out as per procedure stipulated in the EIA Notification, 2006.

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.

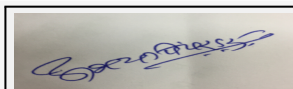
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

PP to refer to the Office Memorandum issued by MoEF&CC dated 19.08.2018 with respect to the standard conditions to be stipulated in the Environment Clearance letter for the Pharmaceutical industry to identify the impact of operations on the environmental attributes and implement appropriate mitigation measures to reduce the impact.

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

Specific Conditions by SEAC:


- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to 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. PP also to carry out heat intergration study to reuse the waste heat generated from the unit operations.
- 4) PP to explore possibilities of process re engineering, re optimisation and intensification so as to reduce the quantities of by products and increase the quantities of the product. PP to include same in the EIA report.
- 5) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 6) PP to submit structural stability certificate to accommodate proposed expansion in the existing units.
- 7) PP to submit year wise comparative of the consumption of the resources like water, energy, raw material etc. with respect to the products manufactured and proposed to be manufactured after expansion.
- 8) PP to submit project site details (location, topo sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
- 9) PP to submit details of Forest and Wild Life ecosensitive zones if any in the study area and within the range of 5 km
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
- 11) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
- 12) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.
- 13) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 14) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
- 15) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 16) PP to provide new and renewable energy sources for the illumination of the office building and street lights



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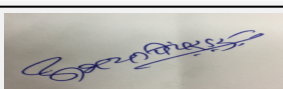
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FINAL RECOMMENDATION

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.

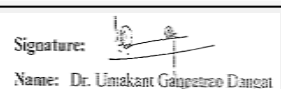
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