

## Agenda of 161th Meeting of State Level Expert Appraisal Committee (SEAC-1) (Day-3)

SEAC Meeting number: 161 Meeting Date February 15, 2019

**Subject:** Environment Clearance for Proposed production capacity enhancement of Coatings & Coatings (India) Pvt. Ltd.

**Is a Violation Case:** No

1.Name of Project	Coatings & Coatings (India) Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Darshak Kantilal Bhayani
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion, Schedule 5(f), Category -B1 under EIA Notification 2006
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. K -32, MIDC Addl. Ambernath , Tal. Ambernath, Dist. Thane
9.Taluka	Ambarnath
10.Village	Anand Nagar
Correspondence Name:	Mr. Darshak Kantilal Bhayani
Room Number:	104
Floor:	1st
Building Name:	Hill View Industrial Estate
Road/Street Name:	Amrut Nagar
Locality:	Ghtakopar
City:	Mumbai
11.Area of the project	MIDC - Additional Ambernath
12.IOD/IOA/Concession/Plan Approval Number	-- IOD/IOA/Concession/Plan Approval Number: -- Approved Built-up Area: 1487.02
13.Note on the initiated work (If applicable)	--
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	7893.00 sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.): 1487.02
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): -- Approved Non FSI area (sq. m.): -- Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	--
21.Estimated cost of the project	47160000

### 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	
<b>23.Number of tenants and shops</b>	Not applicable			
<b>24.Number of expected residents / users</b>	Not applicable			
<b>25.Tenant density per hectare</b>	Not applicable			
<b>26.Height of the building(s)</b>				
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	10 m			
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	9 m			
<b>29.Existing structure (s) if any</b>	Existing plant for blending activities with ancillary facilities is present on project site			
<b>30.Details of the demolition with disposal (If applicable)</b>	Not applicable			
<b>31.Production Details</b>				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Foundry Chemicals (Refractory Coatings)	1000.0 MT/A	--	1000.0 MT/A
2	Wood Coatings	1000.0 MT/A	--	1000.00 MT/A
3	Foundry Binders	--	22000.00 MT/A	22000.00 MT/A
<b>32.Total Water Requirement</b>				



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

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1.2	0.8	2.0	0.2	0	0.2	1	0.8	1.8
Industrial Process	2.3	2.3	4.6	1.5	0	1.5	0.8	10.74	11.54
Cooling tower & thermopack	3.5	99.5	103.0	1.9	84.1	86	1.6	15.4	17.0
Gardening	2.19	10.81	13.0	0	13.0	13.0	0	0	0

  
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<b>34. Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	--	
	<b>Size and no of RWH tank(s) and Quantity:</b>	--	
	<b>Location of the RWH tank(s):</b>	--	
	<b>Quantity of recharge pits:</b>	--	
	<b>Size of recharge pits :</b>	--	
	<b>Budgetary allocation (Capital cost) :</b>	--	
	<b>Budgetary allocation (O &amp; M cost) :</b>	--	
	<b>Details of UGT tanks if any :</b>	Fire fighting water storage tank of 100 KL capacity	
<b>35. Storm water drainage</b>	<b>Natural water drainage pattern:</b>	--	
	<b>Quantity of storm water:</b>	56.80 m <sup>3</sup> /hr. anticipated on the basis of secondary data from IMD	
	<b>Size of SWD:</b>	Width = 0.45 m, Depth = 0.885 m, Length = 370 m, Capacity = 0.45 x 0.885 x 370 = 147.35 m <sup>3</sup>	
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	1.8	
	<b>STP technology:</b>	Sewage will be treated in aeration tank of ETP	
	<b>Capacity of STP (CMD):</b>	--	
	<b>Location &amp; area of the STP:</b>	--	
	<b>Budgetary allocation (Capital cost):</b>	--	
	<b>Budgetary allocation (O &amp; M cost):</b>	--	
<b>36. Solid waste Management</b>			
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction activities are not involved hence construction related waste generation is not anticipated	
	<b>Disposal of the construction waste debris:</b>	NA	
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Dry wastes such as waste papers, stationery materials from administration office are anticipated	
	<b>Wet waste:</b>	--	
	<b>Hazardous waste:</b>	Chemical sludge from waste water treatment = 150.0 kg/M, Wastes & Residues (Paints) = 200.0 kg/M	
	<b>Biomedical waste (If applicable):</b>	--	
	<b>STP Sludge (Dry sludge):</b>	--	
	<b>Others if any:</b>	--	
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Through local waste disposal system
	<b>Wet waste:</b>	--
	<b>Hazardous waste:</b>	Will be sent to Trans Thane Creek Waste Management Association - CHWTSDF at Mahape for further treatment & disposal
	<b>Biomedical waste (If applicable):</b>	--
	<b>STP Sludge (Dry sludge):</b>	--
	<b>Others if any:</b>	--
<b>Area requirement:</b>	<b>Location(s):</b>	Dedicated hazardous waste storage area of 4.0 sq.m. will be provided
	<b>Area for the storage of waste &amp; other material:</b>	Dedicated hazardous waste storage area of 4.0 sq.m will be provided
	<b>Area for machinery:</b>	--
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	--
	<b>O &amp; M cost:</b>	--

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	6.63	7.19	6-8.5
2	TSS	mg/l	86.0	38.0	<2100
3	BOD	mg/l	706.0	39.0	<100
4	COD	mg/l	2400.0	80.0	<250
5	O & G	mg/l	2.4	0.6	<10
Amount of effluent generation (CMD):		29.54			
Capacity of the ETP:		Phenol recovery plant: 19 KLD, Distillation system/Evaporator = 15 CMD, ETP: 37 CMD, RO: 35 CMD			
Amount of treated effluent recycled :		Treated effluent recycled: 26.15 CMD, Boiler condensate recovery: 12.0 CMD			
Amount of water send to the CETP:		--			
Membership of CETP (if require):		Company is having membership of Ambarnath MIDC CETP Company Pvt. Ltd. (AMCCPL)			
Note on ETP technology to be used		Existing: The domestic waste water is subjected to soak pit & the effluent from boiler, cooling tower blow down & process effluent is treated in ETP of 10 CMD capacity comprising of primary, secondary & tertiary treatment scheme & treated effluent is reused. Proposed: Domestic waste water will be subjected to aeration tank of ETP & the effluent from manufacturing process (part will be sent to phenol recovery plant), boiler & cooling tower blow down will be treated in ETP of 35 CMD capacity follo			
Disposal of the ETP sludge		ETP sludge will be disposed off to Trans Thane Creek Waste Management Association - CHWTSDF at Mahape			

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from waste water treatment	35.3	kg/M	15.0	135.0	150.0	Disposal to Trans Thane Creek Waste Management Association - CHWTSDF, Mahape

  
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2	Wastes & Residues (Paints)	21.1	kg/M	80.0	120.0	200.0	Disposal to Trans Thane Creek Waste Management Association - CHWTSDF, Mahape
3	Distillation system/Evaporator residue	37.3	kg/M	--	31.2	31.2	Disposal to Trans Thane Creek Waste Management Association - CHWTSDF, Mahape

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	850 kg/hour steam boiler	Furnace Oil -500 l/day	1	29.0	0.45	134 OC
2	850 kg/hour steam boiler	Furnace Oil -500 l/day	1	29.0	0.45	134 OC
3	850 kg/hour steam boiler	Furnace Oil-500 l/day	2	26.0	0.45	134 OC
4	850 kg/hour steam boiler	Furnace Oil-500 l/day	2	26.0	0.45	134 OC
5	160 kVA Diesel Generator	High Speed Diesel - 40 l/day	3	3.0 (Above roof level)	0.09	174 OC

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	400.0 l/day	1600.0 l/day	2000.0 l/day
2	High speed diesel	40.0 l/day	100.0 l/day	140.0 l/day


41.Source of Fuel  
Furnace Oil: Local supplier providing IOCL/HPCL make, High speed diesel: Local petrol pump

42.Mode of Transportation of fuel to site  
Road

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	2605.0 sq.m.
	<b>No of trees to be cut :</b>	--
	<b>Number of trees to be planted :</b>	311
	<b>List of proposed native trees :</b>	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleicheria oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxyllum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Pongamia pinnata, Neolamarckia cadamba, Pterospermum acerifolium, Dalbergia sissoo, Pongamia pinnata
<b>Timeline for completion of plantation :</b>	1 year after grant of environmental clearance	

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
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1	Cassia fistula	Bahava	15	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	15	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Alstonia scholaris	Saptaparni	15	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Macaranga peltata	Chandwar	15	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kusum	15	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	15	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	15	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	15	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	15	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	15	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	15	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainsadada	15	A native deciduous tree of forest tracts of Sahyadri ranges
13	Butea monosperma	Palash	15	A native brilliantly flowering tree abundant the Thane District visited by large number of birds
14	Oroxylum indicum	Tetu	15	A native ornamental tree
15	Erythrina suberosa	Pangara	15	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
16	Azadirachta indica	Kadulimb	15	A native evergreen tree capable of surviving in comparatively polluted environs
17	Dalbergia sissoo	Shisham	15	A native evergreen tree attracting large number of insects
18	Trema orientalis	Ghol	15	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index
19	Pongamia pinnata	Karanj	15	A native deciduous tree well suited to intense heat and sunlight and drought tolerant
20	Neolamarckia cadamba	Kadamba	15	A native evergreen tree with tremendous blooms attracting large number of insects



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21	Pterospermum acerifolium	Karnikar	11	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation
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**45.Total quantity of plants on ground**

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

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

**47.Energy**

<b>Power requirement:</b>	<b>Source of power supply :</b>	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	<b>During Construction Phase: (Demand Load)</b>	--
	<b>DG set as Power back-up during construction phase</b>	--
	<b>During Operation phase (Connected load):</b>	268 kW
	<b>During Operation phase (Demand load):</b>	252 kVA
	<b>Transformer:</b>	315 kVA
	<b>DG set as Power back-up during operation phase:</b>	1 x 160 kVA
	<b>Fuel used:</b>	High Speed Diesel
	<b>Details of high tension line passing through the plot if any:</b>	--

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

--

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

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

**50.Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
1 x 400 kg/hr. steam boiler	Common of stack of 18 m height	--
2 x 850 kg/hr. steam boliers	Common stack of 18 m height	Stack 1: Common stack of 29 m for 2 boilers of 850 kg/hr.



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2 x 850 kg/hr. stem boilers	--	Stack 2: Common stack of 26 m for 2 boilers of 850 kg/hr.
1 x 160 kVA D.G set	Stack of 3.0 m height (above roof level)	--

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

## 51.Environmental Management plan Budgetary Allocation

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

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

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Stack 1: New common stack of 29 m for 2 boilers of 850 kg/hr. Stack 2: New common stack of 26 m for 2 boilers of 850 kg/hr.	30.0	0.7
2	Water	Up gradation of existing ETP to 37 CMD capacity & installation of Phenol recovery plant of 19 KLD, Distillation system/Evaporator of 15 CMD capacity and R.O system of 35 CMD	140.0	22.0
3	Noise	Purchase of PPE's (ear plugs) for additional work force	--	0.1
4	Occupational health	Purchase of PPS's and health check ups	1.0	2.0
5	Green belt	Development & maintenance of green belt	5.10	2.51
6	Solid waste	Development of hazardous waste storage area & purchase of waste storage bags & containers	3.5	0.5

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

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Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Formaldehyde	Liquid	Tank farm	20 + 25	25	400	Local	Tanker
Phenol	Liquid	Tank farm	100	60	550	Local/Import	Tanker
Oxalic acid	Solid	RM storage area	0.050	5	5	Local	Tanker
NaOH Lye	Liquid	RM storage area	0.2	10	50	Local	Tanker
Urea	Solid	RM storage area	0.050	5	20	Local	Truck
Silane	Liquid	RM storage area	0.2	1.6	5	Local	Truck
Methanol	Liquid	Tank farm	23	16	156	Local	Tanker
Ethanol	Liquid	Tank farm	23	10	20	Local	Truck
Paraformaldehyde	Solid	RM storage area	0.025	10	60	Local	Truck
N- hexane	Liquid	Tank farm	19.5	10	60	Local	Tanker
Aromax (Remax)	Liquid	Tank farm	27	20	91	Local	Tanker
Hexamine	Solid	RM storage area	0.050	18	75	Local	Truck
Methane diisocyanate	Liquid	Drum	0.250	20	100	Import	Container
Tri acetin	Liquid	RM storage area	0.240	20	60	Import	Container
Boric acid	Solid	RM storage area	0.050	0.1	0.5	Local	Truck
Butyl carbitol	Liquid	RM storage area	0.200	1	6	Local	Truck
Calcium stearate	Soild	RM storage area	0.025	6	25	Local	Truck
Caustic potash	Soild	RM storage area	0.050	6	25	Local	Truck
Dibasic ester	Liquid	RM storage area	0.220	20	40	Import	Container
Furfuryl alcohol	Liquid	RM storage area	0.240	40	150	Import	Container
Pine oil	Liquid	RM storage area	0.190	1	2	Local	Truck
Para Toluene Sulfonic Acid	Liquid	RM storage area	0.225	18	125	Local	Truck
Pyridine	Liquid	RM storage area	0.200	1	13	Local	Truck
Triethylamine	Liquid	RM storage area	0.150	10	40	Local	Tanker
Zinc acetate	Solid	RM storage area	0.050	0.1	1	Local	Truck


### 52.Any Other Information

No Information Available

### 53.Traffic Management

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

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Parking details:	Number and area of basement:	--
	Number and area of podia:	--
	Total Parking area:	372.0 sq.m.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	--
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	No
	Other Relevant Informations	1. one existing boiler of 400 kg/hr along with existing stack of 18.0 m will be sold out for expansion
	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



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

### Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 154th meeting of SEAC-1 wherein ToR was granted to the PP for the preparation of EIA/EMP report.

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

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.


Now PP submitted EIA/EMP report for compliance.

### DECISION OF SEAC

  
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After deliberations with the PP and their accredited consultant, SEAC-1 decided to defer the proposal till PP submits compliance of following points.

**Specific Conditions by SEAC:**

- 1) PP to submit revised layout plan showing storm water drains, adequate parking area and contour levels.
- 2) PP to include names and capping quantity of each product in the consolidated statement and Form-II. PP to submit revised Form-II
- 3) PP to prepare and submit copies of protocol/ SOP's for handling of Phenol.
- 4) PP to submit revised reply to the point No. 6 of additional ToR granted on 27.08.2018.
- 5) PP to submit design details and piping diagram of proposed Effluent Treatment Plant.
- 6) PP to submit interpretation of base line data exceeding the prescribed limits laong with proposed mitigation measures if any.
- 7) PP to prepare and submit CER plan in consultation with the District Authorities as per OM issued by MoEF&CC dated 01.05.2018.

**FINAL RECOMMENDATION**

SEAC-I decided to defer the proposal. Kindly find SEAC decision above.

SEAC-AGENDA-0000000216

  
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## Agenda of 161th Meeting of State Level Expert Appraisal Committee (SEAC-1) (Day-3)

SEAC Meeting number: 161 Meeting Date February 15, 2019

**Subject:** Environment Clearance for Production capacity expansion of dyes & dye formulation unit

**Is a Violation Case:** No

1.Name of Project	M/s. Arlex Chemi Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Paharia
4.Name of Consultant	M/s. Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Schedule 5(f), category B-1. industrial project-Expansion
6.New project/expansion in existing project/modernization/diversification in existing project	Production capacity expansion of existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot E-43, Tarapur MIDC, Boisar -401506, Dist. Palghar, Maharashtra.
9.Taluka	Boisar
10.Village	Salwad
Correspondence Name:	Mr. Vinod Paharia
Room Number:	B-1302
Floor:	13
Building Name:	Cello Triumph
Road/Street Name:	I. B. Patel Road
Locality:	Goregaon East
City:	Mumbai
11.Area of the project	Other area- Plot no. E-43, MIDC Tarapur, Boisar,Dist. Palghar,
12.IOD/IOA/Concession/Plan Approval Number	NA for industrial projects
	<b>IOD/IOA/Concession/Plan Approval Number:</b> NA for industrial projects
	<b>Approved Built-up Area:</b> 1800
13.Note on the initiated work (If applicable)	Expansion work will be started after grant of EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	4050 sq m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 2465.26
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 2465.26
	Approved Non FSI area (sq. m.): not applicable
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	65000000

## 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
<b>23.Number of tenants and shops</b>	Not Applicable		
<b>24.Number of expected residents / users</b>	Not applicable		
<b>25.Tenant density per hectare</b>	Not applicable		
<b>26.Height of the building(s)</b>			
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	6 m		
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	9 m		
<b>29.Existing structure (s) if any</b>	Production block, utility block, administration building, warehouse, ETP area		
<b>30.Details of the demolition with disposal (If applicable)</b>	610.52 sq.m area will be demolished and rebuilt. The construction waste will be disposed through municipal system or it will be used for landfilling inside the premise.		

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Vat Dyes	3	17	20
2	Indigosols	0	7.5	7.5
3	Food Colour - Erythrosine	0	4	4
4	Solvent Red 197	0	1	1
5	Pigment Red 122	0	3	3
6	Vat Micro Disperse & Powder Fine Dyes (Formulation)	6	0	6
7	Repacking of Dyes (Formulation)	3	0	3
8	Copper Sulphate (By-product) OR	1.56	16.19	17.75
9	Quinulphos (By-product)	16.67	0	0

### 32.Total Water Requirement

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<b>Dry season:</b>	<b>Source of water</b>	MIDC
	<b>Fresh water (CMD):</b>	173.6
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	173.6
	<b>Fire fighting - Underground water tank(CMD):</b>	2 Lakh litre
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Wet season:</b>	<b>Source of water</b>	MIDC
	<b>Fresh water (CMD):</b>	167
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	173.6
	<b>Fire fighting - Underground water tank(CMD):</b>	2 Lakh litre
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Details of Swimming pool (If any)</b>	Not applicable	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	2	3	5	1	0	1	1	3	4
Industrial Process	22	123	145	2.15	2.35	4.5	19.85	140.55	160.4
Cooling tower & thermopack	1	16	17	0.85	12.55	13.4	0.15	2.45	2.6
Gardening	3	3.6	6.6	3	3.6	6.6	0	0	0

  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	3-4 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	1 tank of 20 KL capacity will be provided
	<b>Location of the RWH tank(s):</b>	under main office
	<b>Quantity of recharge pits:</b>	no recharge pits. RWH tank will be provided
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	300000
	<b>Budgetary allocation (O &amp; M cost) :</b>	30000
	<b>Details of UGT tanks if any :</b>	process water tank -1.5 lakh L capacity , RWH tank- 20 KL capacity and Fire hydrant water tank 2 lakh L capacity
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	storm water drainage line is provided along plot boundary
	<b>Quantity of storm water:</b>	0.98 M3/hr
	<b>Size of SWD:</b>	along the plot boundary connected to MIDC drains.
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	4
	<b>STP technology:</b>	sewage is treated in septic tank. Overflow from septic tank will be treated with effluent in aeration tank.
	<b>Capacity of STP (CMD):</b>	NA
	<b>Location &amp; area of the STP:</b>	NA
	<b>Budgetary allocation (Capital cost):</b>	0
	<b>Budgetary allocation (O &amp; M cost):</b>	0
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction wastes such as left off concrete, stone, aggregates, wooden piles, excavated materials etc
	<b>Disposal of the construction waste debris:</b>	The solid waste generated in the construction phase would be disposed off through local Municipal Corporation or it will be used for landfilling inside premises.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	non hazardous waste will be disposed through scrap dealers
	<b>Wet waste:</b>	Process waste.Please refer hazardous waste.
	<b>Hazardous waste:</b>	The overall operation of the company will involve generation of hazardous waste like ETP Sludge, Process waste, Discarded container, Copper Sludge, Used oil, Distillation residue, waste cloth and MEE residue.
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non hazardous waste will be disposed through authorised recyclers or scrap vendors
	<b>Wet waste:</b>	Hazardous wet waste will be disposed through CHWTSD Facility. no other wet waste will be produced.
	<b>Hazardous waste:</b>	The overall operation of the company will involve generation of hazardous waste like ETP Sludge, Process waste, Distillation residue and MEE residue which will be disposed through CHWTSDF, Taloja or sold to MPCB authorised reprocessor.
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Near ETP
	<b>Area for the storage of waste &amp; other material:</b>	As per plot layout
	<b>Area for machinery:</b>	As per plot layout in Production building and utility building
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	50000
	<b>O &amp; M cost:</b>	500000

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	4.0	5.5-9.5	5.5-9.5
2	TSS	mg/L	250	<100	100
3	BOD	mg/L	1500	<100	100
4	COD	mg/L	5200	<250	250
5	Oil and grease	mg/L	12	<10	10
6	Cyanide	mg/L	BDL	<0.2	0.2
7	Copper	mg/L	<3	<3	3
8	Zinc	mg/L	<15	<15	15

Amount of effluent generation (CMD):	167
Capacity of the ETP:	175
Amount of treated effluent recycled :	Expansion project will be ZLD unit. Max. 147 CMD effluent shall be recycled to plant.
Amount of water send to the CETP:	21 CMD. Expansion project will be ZLD. After commissioning of the new CETP, Tarapur as per CPCB/MPCB norms treated effluent will be discharged to CETP.
Membership of CETP (if require):	Company has membership of existing TIMA CETP no. 368 and contributed to the upcoming new CETP.
Note on ETP technology to be used	The Proposed expansion project will be run as ZLD unit comprising of 3 stage fully fledged ETP, MEE and RO. sewage will be treated in septic tank and overflow will be connected to aeration tank of ETP.
Disposal of the ETP sludge	ETP sludge will be disposed to CHWTSDF, Taloja

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical Sludge from wastewater treatment	35.3	MT/M	3.5	35	38.5	CHWTSDF, Taloja.

  
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2	Process Waste and residue	26.1	MT/M	2.8	23.7	26.5	CHWTSDF, Taloja.
3	Discarded Container	33.1	Nos./M	50	150	200	CHWTSDF, Taloja /Disposal by selling to authorised re-seller
4	Used Oil	5.1	Litre/M	-	5	5	Disposal by selling to authorized reseller/ CHWTSDF, Taloja.
5	Copper Sludge	7.4	MT/M	-	17.75	17.75	Disposal by selling to authorized copper sulphate manufacturer/ CHWTSDF, Taloja
6	Waste filter Cloth	36.2	Kg/M	-	2	2	CHWTSDF, Taloja
7	MEE Residue	37.3	MT/d	-	12.3	12.3	CHWTSDF, Taloja

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG stack	20 L/hr HSD	1	3 m above roof	0.15	200
2	scrubber-1	-	2	8	0.46	60
3	scrubber-2	-	2	8	0.46	60
4	scrubber-3 (Proposed)	-	2	8	0.46	60
5	Boiler (existing)	600 L/day FO	3	15	0.35	240
6	Boiler (Proposed)	600 L/day FO	3	30 (common stack)	0.35	240

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	600 L/day	600 L/day	1200 L/Day
2	HSD	20 L/Hr	0	20 L/Hr
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		

### 43.Green Belt Development

<b>Total RG area :</b>	1320 sqm
<b>No of trees to be cut :</b>	no trees will be cut
<b>Number of trees to be planted :</b>	195
<b>List of proposed native trees :</b>	Bahava, Sawar, Saptaparni, Chandwar, Kusum, Shirali, ain, Kindal, Beheda, Shelu etc.
<b>Timeline for completion of plantation :</b>	1 year after grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
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1	Cassia fistula	Bahava	10	Native ornamental tree having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	9	A native tree with large showy flowers visited by birds.
3	Terminalia arjuna	Arjun	9	A native evergreen tree with large canopy
4	Macaranga peltata	Chandwar	9	A native tree found in abundance across the sahyadri range
5	Schleichera oleosa	Kusum	9	A native tree found in abundance in Sahyadris.
6	Microcos paniculata	Shirali	9	A native evergreen tree abundantly found across the Sahyadri ranges
7	Terminalia elliptica	Ain	9	A native evergreen broad leaved tree common in the Sahyadris.
8	Terminalia paniculata	Kindal	10	Kindal is a tropical tree with a large natural distribution in Western Ghats
9	Terminalia bellirica	Baheda	9	A native medicinally important tree
10	Cordia dichotoma	Shelu	9	Native deciduous tree attracting various insects.
11	Helicteres isora	Murudsheng	9	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds.
12	Holoptelea integrifolia	Ainasadada	9	A native tree abundantly found in Palghar District
13	Butea monosperma	Palash	9	A native brilliantly flowering tree fed by local birds fairly common and abundant across the Palghar District.
14	Oroxylum indicum	Tetu	9	A native ornamental tree.
15	Erythrina suberosa	Pangara	10	A native tree found in abundance in Sahyadris.
16	Azadirachta indica	Kadulimb	9	A native evergreen tree known for plantation in polluted area.
17	Dalbergia sissoo	Shisham	9	A native tree found in abundance in Sahyadris.
18	Azadirachta indica	Neem	10	A native evergreen tree known for plantation in polluted area.
19	Callicarpa tomentosa	Aiser	10	A native evergreen tree with beautiful flowers & thick hairy leaves which helps in dust settling
20	Neolamarckia cadamba	Kadamba	9	A native evergreen tree with thick canopy.
21	Pterospermum acerifolium	Muchkund	9	A native evergreen tree used for ornamental plantations.
<b>45.Total quantity of plants on ground</b>				

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

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

  
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## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	261 KW
	<b>DG set as Power back-up during construction phase</b>	250 KVA
	<b>During Operation phase (Connected load):</b>	261 KW
	<b>During Operation phase (Demand load):</b>	315 KVA
	<b>Transformer:</b>	315 KVA
	<b>DG set as Power back-up during operation phase:</b>	250 KVA
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	No high tension line is passing through the plot

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

NA

## 49. Detail calculations & % of saving:

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

## 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
process emissions	2 alkali scrubbers are installed	1 additional scrubber will be installed.
boiler emissions	stack of 15m is provided to existing stack	one additional boiler will be installed as standby boiler. Both boilers will have common stack 30 m high.
DG set	existing stack is 3.5 m above roof	same as existing.
sewage	septic tank followed by soak pit	sewage will be mixed with effluent in aeration tank
Process effluent	3 stage ETP of 50 CMD is provided. Treated effluent is discharged to CETP. Tarapur	175 CMD capacity ETP consisting primary, secondary, tertiary treatment. Expansion Unit will be operated as ZLD unit by incorporating 3 stage ETP, MEE and RO unit. After commissioning of the new CETP, Tarapur as per CPCB/MPCB norms treated effluent will be discharged to CETP.
Noise	Equipment housing and noise absorbing pads are provided to equipment, green belt around the project boundary	housing and noise absorbing pads will be provided to equipment, green belt around the project boundary
Solid waste management	Hazardous solid waste is disposed to CHWTSDF, Taloja or sold to authorised reprocessors. Non hazardous solid waste is sold to scrap dealers	Hazardous solid waste is disposed to CHWTSDF, Taloja or sold to authorised reprocessors. Non hazardous solid waste is sold to scrap dealers



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

## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	air pollution	water sprinkling , wind barrier to control dust emission	2.0
2	water pollution	mobile toilets will be arranged for construction workers	1.0
3	Noise pollution	PPE for workers. Protective enclosures will be provided to noise producing equipment	0.5
4	occupational health	PPE for workers. First aid facilities	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	A common stack of 30 m high for boiler	30	5
2	water pollution	Upgradation of ETP to 175 CMD capacity comprising of primary, secondary & tertiary treatment alongwith installation of MEE & RO	400	90
3	noise pollution	Installation of anti-vibration pads & enclosures for DG set & boiler.	3	0.45
4	Environmental monitoring and management	Quarterly environment monitoring	-	2.5
5	Occupational health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs & annual health medical check up of workers.	2.5	0.5
6	Green belt development	a green belt of 1336 sq. m. will be provided	6.3	1.8
7	Solid waste management	separate HW storage area development. HW segregation as per category	0.8	0.15
8	water conservation	RWH tank will be provided. the project will be designed as ZLD.	3	0.9

  
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## 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
Acetic Acid	Liquid	Tank	9	4	12.00	Local	Road
Acetylene Chloride	Liquid	Carbouys	0.05	1	2.88	Local	Road
Aluminum Chloride	Solid	Drum	0.24	10	32.20	Local	Road
Anthranilic Acid	Solid	Carbouys	0.05	0.5	0.48	Local	Road
Benzoyl Chloride	Liquid	Drum	0.2	4	7.77	Local	Road
Bleach 5 % Soln.	Liquid	Carbouys	0.05	10	23.36	Local	Road
Calcium Carbonate	Solid	Bags	0.05	1	3.00	Local	Road
Caustic Lye	Liquid	Tank	9	9	33.5	Local	Road
DMSS	Liquid	Drum	0.25	0.5	2.4	Local	Road
Caustic soda flakes	Solid	Bags	0.05	7	41.8	Local	Road
Chalk Powder	Solid	Bags	0.05	3	3.24	Local	Road
Chlorosulphonic Acid	Liquid	Tank	9	7	6.75	Local	Road
Cuprous Chloride	Solid	Drum	0.05	2	5.42	Local	Road
Dimethyl Formide	Liquid	Drum	0.2	1	5.00	Local	Road
EDC	Liquid	Drum	0.25	2	5.00	Local	Road
Fluorescein	Solid	Bags	0.025	2	1.8	Local	Road
Glucose Powder	Solid	Bags	0.05	0.15	0.15	Local	Road
Hydrochloric Acid	Liquid	Tank	9	9	46.97	Local	Road
Indigo	Solid	Bags	0.025	1	1.92	import	Sea
Iodine	Liquid	Carbouys	0.05	3	3.14	Local	Road
Iron Powder	Solid	Bags	0.05	2	2.25	Local	Road
Iso butyl Alcohol	Liquid	Drum	0.16	2	6.0	Local	Road
Liq. Bromine	Liquid	Glass Bottle	0.024	2	5.26	Local	Road
Mono chloro benzene	Liquid	Drum	0.2	4	14.9	Local	Road
Monochloroacetic Acid	Solid	Bags	0.05	3	10.38	Local	Road
Nephthalene	Solid	Bags	0.05	4	6.58	Local	Road
Nitro benzene	Liquid	Drum	0.2	3	10.26	Local	Road
Ortho Toludine Liquid	Liquid	Drum	0.2	3	8.22	Local	Road
Para Phenitidine	Solid	Drum	0.2	2	3.38	Import	sea
Pyridine Base	Liquid	Drum	0.16	8	24	Import	sea
Salt	Solid	Bags	0.05	10	61.04	Local	Road
Soda Ash	Solid	Bags	0.05	5	6.89	Local	Road
Soda Bicarb	Solid	Bags	0.05	5	13.84	Local	Road
Soda Bicarb	Solid	Bags	0.05	5	13.84	Local	Road
Sodium Cyanide	Solid	Drum	0.05	2	7.92	Local	Road
Sodium Hypochlorite	Liquid	Carbouys	0.05	3	8.64	Local	Road
Sodium Nitrate	Solid	Bags	0.05	2	5.67	Local	Road
Sodium Sulphide	Solid	Bags	0.05	5	15	Import	Sea
Sulphur	Solid	Bags	0.05	5	8.72	Local	Road

  
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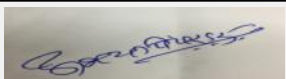
Sulphur Monochloride	Liquid	Drum	0.2	6	31	Local	Road
Sulphuric Acid	Liquid	Tank	9	10	28.92	Local	Road
Vaccum Salt	Solid	Bags	0.05	15	60	Local	Road
Vat Dyes	Solid	Drum	0.025	2	4.5	Local	Road
Yellow Dye	Solid	Drum	0.025	1.5	1.5	Local	Road
Zinc Powder	Solid	Bags	0.05	0.5	0.5	Local	Road
methanol	liquid	Drum	0.2	4	18	Local	Road
para toludine	Liquid	Drum	0.2	1	2.4	Local	Road
Phosphoric acid	Liquid	Drum	0.2	1	2.4	Local	Road
Phosphorous Pentoxide	Solid	Bags	0.2	0.6	1.35	Local	Road

### 52.Any Other Information

No Information Available

### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	Number and area of basement:	--
	Number and area of podia:	--
	Total Parking area:	37.5 sqm.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) 'B1'
	Court cases pending if any	No

  
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SEAC-I)

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(Chairman SEAC-I)



	<b>Other Relevant Informations</b>	No other information
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	16-05-2018

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

## Brief information of the project by SEAC



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

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

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 153rd meeting of SEAC-1 held on 02.07.2018 wherein ToR was granted to the PP for the preparation of EIA/EMP report.

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

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.

Now PP submitted EIA/EMP report for appraisal.

### DECISION OF SEAC

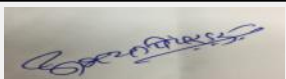
After deliberations with the PP and their accredited consultant, SEAC-1 decided to defer the proposal till PP submits compliance of following points.

#### Specific Conditions by SEAC:

- 1) PP to provide adequate parkign area and submit revised layout.
- 2) PP to submit note on adequacy of propsoed space for the expansion activities considering manufactruing quantities, space required for storage of raw materials, finished products, space required for equipment placing and safe working area around each equipment etc.
- 3) PP to submit details of purchase of raw material from doemstic /local market to reduce Green House Potential due to transportation activity.
- 4) PP to prepare and submit CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
- 5) PP to include monitoring of water and carbon foot print in the EMP

### FINAL RECOMMENDATION

SEAC-I decided to defer the proposal. Kindly find SEAC decision above.

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

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

## Agenda of 161th Meeting of State Level Expert Appraisal Committee (SEAC-1) (Day-3)

SEAC Meeting number: 161 Meeting Date February 15, 2019

**Subject:** Environment Clearance for Proposed Manufacturing chemical unit of Ethyl propionate (120 MT/A) by M/s. Beetachem Industries

**Is a Violation Case:** No

1.Name of Project	Proposed Manufacturing chemical unit of Ethyl propionate (120 MT/A) by M/s. Beetachem Industries at Pawane , Thane, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Mr. Arun Surendra Rao
4.Name of Consultant	ABC Techno labs India Private Limited
5.Type of project	Not applicable
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	NA
8.Location of the project	Plot no. W-177, T T C Industrial Area, Thane Belapur Road, Navi mumbai
9.Taluka	Thane
10.Village	Pawane village
Correspondence Name:	Mr.Arun Surendra Rao
Room Number:	25
Floor:	Ground floor
Building Name:	Shireesh Co Op Hsg. Society
Road/Street Name:	Veer Savarkar Marg
Locality:	Mahim (West)
City:	Mumbai-400016
11.Area of the project	Navi Mumbai Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	700 sq m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.):
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: 29-10-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	9000000


## 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))	0		
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	Methylal/Ethylal	120 MT/A	0	120
2	Methyl Formate/ Ethyl Formate	120 MT/A	0	120
3	Iso Propyl Acetate / Iso Propyl Formate	240 MT/A	0	240
4	Ethyl Acetate / Methyl Acetate	120 MT/A	0	120
5	Methyl Iso Butyl Carbinol	300 MT/A	0	300
6	Rectification/Purification of solvents from waste process under schedule I (Cat. No. 1.4/1.6/20.1/20.2/20.3/28.6) and all other categories from which solvent recovery is possible (Quantity to be filled -4000 MT/A)	3500 MT/A	0	3500
7	Copper Sulphate and Nickel Sulphate and process under schedule- I (cat no.1.7/17.2/18.1/35.2) (Quantity to be handled 250 MT/A)	150 MT/A	0	150



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8	Ethyl Propionate	0	120 MT/A	120
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### 32.Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	TTC MIDC
	<b>Fresh water (CMD):</b>	5.35 KLD
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	0.5 KLD
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	5.35 KLD
	<b>Fire fighting - Underground water tank(CMD):</b>	50 KLD
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Wet season:</b>	<b>Source of water</b>	TTC MIDC
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not applicable
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Details of Swimming pool (If any)</b>	Not applicable	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Industrial Process	3.55	0	3.55	1.45	0	1.45	1.6	0.5	2.1
Domestic	1.3	0	1.3	0.2	0	0.2	1.1	0	1.1
Gardening	0.5	0	0.5	0	0	0	0	0	0

  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	NA
	<b>Size and no of RWH tank(s) and Quantity:</b>	NA
	<b>Location of the RWH tank(s):</b>	NA
	<b>Quantity of recharge pits:</b>	NA
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	NA
	<b>Budgetary allocation (O &amp; M cost) :</b>	NA
	<b>Details of UGT tanks if any :</b>	Not applicable
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Not applicable
	<b>Quantity of storm water:</b>	0
	<b>Size of SWD:</b>	0
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	1.3
	<b>STP technology:</b>	The generated Sewage will be disposed to soak pit
	<b>Capacity of STP (CMD):</b>	NA
	<b>Location &amp; area of the STP:</b>	NA
	<b>Budgetary allocation (Capital cost):</b>	NA
	<b>Budgetary allocation (O &amp; M cost):</b>	NA
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	NA
	<b>Disposal of the construction waste debris:</b>	NA
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	8 Kg per day
	<b>Wet waste:</b>	12 Kg per day
	<b>Hazardous waste:</b>	Total hazardous waste is 520.6 MT/A,
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Chemical sludge from ETP-10 MT/A, Sludge from treatment of waste water arising out of cleaning /disposal of barrels/ containers-2.50 MT/A
	<b>Others if any:</b>	NA

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	handed over to authorised vendor
	<b>Wet waste:</b>	compost
	<b>Hazardous waste:</b>	will be handed over to CHWTSDF
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	will be handed over to CHWTSDF
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Nil
	<b>Area for the storage of waste &amp; other material:</b>	0
	<b>Area for machinery:</b>	0
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	0
	<b>O &amp; M cost:</b>	0

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	--	7.9	6.0 to 8.5
2	Oil and Grease	mg/l	--	6.0	10 mg/l
3	suspended solid	mg/l	--	40.0	100 mg/l
4	BOD	mg/l	--	44	30 mg/l
5	COD	mg/l	--	159	250 mg/l
6	TDS	mg/l	--	653	05 mg/l
Amount of effluent generation (CMD):		Trade Effluent-2.1			
Capacity of the ETP:		5 KLD			
Amount of treated effluent recycled :		No			
Amount of water send to the CETP:		2.1			
Membership of CETP (if require):		Yes			
Note on ETP technology to be used		Primary Treatment is given and after treatment , the generated effluent would be send it to CETP			
Disposal of the ETP sludge		It would be used as manure			

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Cu/Ni catalyst Molecular sieves (from petrochemical process)	1.6	MT/A	25	0	0	Sent to CHWTSDF
2	spent Cu/Ni Catalyst (from production of acid)	17.2	MT/A	25	0	0	Sent to CHWTSDF
3	spent Cu/Ni Catalyst (From production of nitrogenous & complex fertilizers )	18.1	MT/A	25	0	0	Sent to CHWTSDF

  
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4	Spent Cu/Ni catalyst (from purification process of organic compounds /solvents)	36.1	MT/A	25	0	0	Sent to CHWTSDF
5	Organic Residues	1.4	MT/A	480	0.6	480.06	Sent to CHWTSDF
6	Still bottom from distillation Process	1.2	MT/A	480	0	0	Sent to CHWTSDF
7	contaminated Aromatic , Aliphatic or Naphenic solvents not fit for originally intended use.	20.1	MT/A	480	0	0	Sent to CHWTSDF
8	Spent Solvents,Distillation Residue	20.2,20.3	MT/A	480	0	0	Sent to CHWTSDF
9	Chemical sludge from ETP	35.3	MT/A	10	0	0	Sent to CHWTSDF
10	Chemical containing residue arising from decontamination	34.1	MT/A	2.50	0	0	Sent to CHWTSDF
11	Sludge from treatment of waste water arising out of cleaning /disposal of barrels/ containers	34.2	MT/A	2.50	0	0	Sent to CHWTSDF

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Thermic Heating System	PNG 15 kg/day	1	30.0	0	0
2	DG set	Diesel 100 lit/M	1	0	0	0

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA

41.Source of Fuel NA

42.Mode of Transportation of fuel to site NA

43.Green Belt Development	Total RG area :	55 Sq. M.
	No of trees to be cut :	NO
	Number of trees to be planted :	0
	List of proposed native trees :	0
	Timeline for completion of plantation :	--

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

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Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	nil	nil	nil	nil
<b>45.Total quantity of plants on ground</b>				
<b>46.Number and list of shrubs and bushes species to be planted in the podium RG:</b>				
Serial Number	Name	C/C Distance	Area m2	
1	nil	nil	nil	
<b>47.Energy</b>				
<b>Power requirement:</b>	Source of power supply :	MSEDCL		
	During Construction Phase: (Demand Load)	NA		
	DG set as Power back-up during construction phase	NA		
	During Operation phase (Connected load):	51 KVA		
	During Operation phase (Demand load):	0		
	Transformer:	NA		
	DG set as Power back-up during operation phase:	125		
	Fuel used:	Diesel		
	Details of high tension line passing through the plot if any:	NA		
<b>48.Energy saving by non-conventional method:</b>				
NA				
<b>49.Detail calculations &amp; % of saving:</b>				
Serial Number	Energy Conservation Measures	Saving %		
1	NIL	0		
<b>50.Details of pollution control Systems</b>				
Source	Existing pollution control system	Proposed to be installed		
Effluent	primary treatment is done and after that effluent sent to CETP	--		
sewage	treated in soak pit	--		
Air emission	adequate stack is provided	--		
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	Capital cost:	0		
	O & M cost:	0		



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## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	0	NIL	0

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	air pollution control	air pollution control	1	0.5
2	solid waste	solid waste	0.3	0.1
3	environment monitoring and management	environment monitoring and management	1	0.5
4	occupational health	occupational health	0.5	1

## 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
flammable/ hazardous	Occupied	Underground	12 KL-2 Nos & 10 KL 1 Nos	50KL	200 MT	ARSS Bio Fual Pvt Ltd, Aroma Organic Ltd,	By Tanker/Drums

### 52.Any Other Information

No Information Available


### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Nil
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Parking details:	Number and area of basement:	0
	Number and area of podia:	0
	Total Parking area:	0
	Area per car:	0
	Area per car:	0
	Number of 2-Wheelers as approved by competent authority:	0
	Number of 4-Wheelers as approved by competent authority:	0
	Public Transport:	Nil
	Width of all Internal roads (m):	0
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	schedule 5 (f) and category B
	Court cases pending if any	No
	Other Relevant Informations	NIL
	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



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

### Brief information of the project by SEAC

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

### DECISION OF SEAC

PP requested to postpone the proposal.

Hence deferred

**Specific Conditions by SEAC:**

### FINAL RECOMMENDATION

SEAC-I decided to defer the proposal. Kindly find SEAC decision above.



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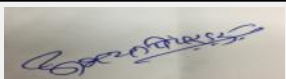
## Agenda of 161th Meeting of State Level Expert Appraisal Committee (SEAC-1) (Day-3)

SEAC Meeting number: 161 Meeting Date February 15, 2019

**Subject:** Environment Clearance for Environment Clearance for proposed expansion of 46966.0 KL capacity of pol terminal and proposed 3X8 bays gantry by HPCL Vashi Terminal

**Is a Violation Case:** No

1.Name of Project	Proposed expansion of 46966.0 KL capacity of POL terminal and proposed 3X8 bays gantry by HPCL Vashi Terminal
2.Type of institution	Semi Government
3.Name of Project Proponent	Hindustan Petroleum Corporation Limited (HPCL)
4.Name of Consultant	ABC Techno Labs India Pvt. Ltd. ; Head office : No. 2, 2nd street, Thangam Colony, Anna Nagar West, Chennai - 600 040 ; Regional Office : A-355, Balaji Bhavan, Plot 42 A, Sect 11, CBD Belapur, Navi Mumbai 400614 ;Tel : 022-2758 0044/55; Email ID: chaitanyasathe@abctechlab.com
5.Type of project	Others
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of 46966.0 KL capacity in POL depot , Existing capacity is 63483 KL and after expansion the capacity would be 110449 KL
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot no D-99, D-501 & TT1, TTC Industrial Area, Turbhe, Navi Mumbai, Thane, Maharashtra
9.Taluka	Thane
10.Village	Turbhe
Correspondence Name:	Mr. Avinash Khandetod
Room Number:	1
Floor:	1st floor
Building Name:	Vashi terminal
Road/Street Name:	Plot no D-99, D-501 & TT1
Locality:	TTC Industrial Area
City:	Navi mumbai
11.Area of the project	Other Area - MIDC
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.): Not applicable Approved Non FSI area (sq. m.): Not applicable Date of Approval: 29-06-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	600000000

  
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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 Vashi)		
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	It is an expansion project and the proposed expansion will occur in the existing plant premises.		
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	MS	16800 KL	10381 KL	27181 KL
2	HSD	40982.4 KL	8871.6 KL	49854 KL
3	SKO	5700.6 KL	89.40 KL	5790 KL
4	Slop	00	702 KL	702 KL
5	ATF	00	25965 KL	25965 KL
6	Bio-Diesel	00	90 KL	90 KL
7	Ethanol	00	867 KL	867 KL

## 32. Total Water Requirement



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

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	8	0	8	2	0	2	6	0	6

  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Not Applicable
	<b>Size and no of RWH tank(s) and Quantity:</b>	Not Applicable
	<b>Location of the RWH tank(s):</b>	Not Applicable
	<b>Quantity of recharge pits:</b>	2 in Nos.
	<b>Size of recharge pits :</b>	10.0 m X 5.0 m X 2.5 m = 125 m <sup>3</sup>
	<b>Budgetary allocation (Capital cost) :</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost) :</b>	Not Applicable
	<b>Details of UGT tanks if any :</b>	-

<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	--
	<b>Quantity of storm water:</b>	--
	<b>Size of SWD:</b>	--

<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	6
	<b>STP technology:</b>	STP will be provided
	<b>Capacity of STP (CMD):</b>	10 KLD
	<b>Location &amp; area of the STP:</b>	Not Applicable
	<b>Budgetary allocation (Capital cost):</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not Applicable

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	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.
	<b>Disposal of the construction waste debris:</b>	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.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	negligible
	<b>Wet waste:</b>	negligible
	<b>Hazardous waste:</b>	5 KL /tank : sludge from cleaning of petroleum product storage tanks (once in 5 years)
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	-
	<b>Others if any:</b>	Not Applicable



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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Handed over to authorized vendor for further handling and disposal.
	<b>Wet waste:</b>	The composted waste will be used as manure for landscape development.
	<b>Hazardous waste:</b>	Tank bottom sludge is disposed by selling to authorized vendor, Mumbai
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	-
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Within the plant premises
	<b>Area for the storage of waste &amp; other material:</b>	-
	<b>Area for machinery:</b>	-
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	--
	<b>O &amp; M cost:</b>	--

### 37. Effluent Characteristics

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

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Oil Sludge Emulsion	1.3	KL/ 5 years	15	20	35	Handed over to authorized vendor for further handling and disposal.
2	Oil containing cargo residue, wash water, sludge	3.1	KL/Years	3	5	8	Handed over to authorized vendor for further handling and disposal.
3	Used spent oil	3.1	KL/Years	40	0	40	Reused as lubricants

### 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	Diesel 150 lit/M	1	3.5 above the ground	--	-



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2	D.G. Set	Diesel 150 lit/M	2	3.5 above the ground	--	-
3	D.G. Set	Diesel 150 lit/M	3	3.5 above the ground	--	--
4	D.G. Set	Diesel 150 lit/M	4	3.5 above the ground	--	--

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

Serial Number	Type of Fuel	Existing	Proposed	Total	
1	Diesel	150 lit/M	0	150 lit/M	
41.Source of Fuel		From petroleum retail outlets			
42.Mode of Transportation of fuel to site		By Road			

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	48562 sq. m.
	<b>No of trees to be cut :</b>	-
	<b>Number of trees to be planted :</b>	50
	<b>List of proposed native trees :</b>	Cassia fistula, Neolamarckia cadamba, Butea monosperma, Holoptelea integrifolia, Schleicheria oleosa, Xylia xylocarpa, Bombax ceiba, Terminalia elliptica,
	<b>Timeline for completion of plantation :</b>	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	Cassia Fistula	Bahava	6	Medicinal value, Drought tolerant species, ornamental, flowering plant
2	Neolamarckia Cadamba	Kadam	4	--
3	Butea Monosperma	Palas	12	--
4	Bombax Ceiba	Kate-Sawar	7	--
5	Schleicheria Oleosa	Kusum	10	--
6	Terminalia Elliptica	Asan	3	Indigenous, Pollution resistant, gives shade
7	Azadirachta Indica	Kadulimb	5	Native, Medicinal value, to control soil erosion, Evergreen
8	Mangifera Indica	Mango	3	Fruit plant, fragrant flowers or leaves, attracts birds/butterflies/bees

#### 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



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## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	1800 kva
	<b>DG set as Power back-up during construction phase</b>	2X320 kva, 1X200 kva and 1X14 kva
	<b>During Operation phase (Connected load):</b>	--
	<b>During Operation phase (Demand load):</b>	--
	<b>Transformer:</b>	--
	<b>DG set as Power back-up during operation phase:</b>	2X320 kva, 1X200 kva and 1X14 kva
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	--

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

--

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

Serial Number	Energy Conservation Measures	Saving %
1	--	-

### 50. Details of pollution control Systems

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

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	300000
	<b>O &amp; M cost:</b>	100000

## 51. Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	Dust control	5
2	Site Sanitation, Safety & Disinfection	Workers Health	3
3	Environmental Monitoring	Air, Water, Soil, Noise sampling & testing	3
4	Health Check-up	Routine health checkup for workers	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	Green belt development	Green Belt	12	6
2	Water Management	RWH	15	1
3	Waste Water Management	Provision of STP	10	2
4	Sinages for EMP	Sinages	3	0.5
5	Noise control measures	--	1	0.5
6	Environmental monitoring and management	Air, Water, Noise and Soil analysis	1	0.5
7	Training & awareness	Environment awareness training	--	2

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


Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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:	-
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<b>Parking details:</b>	<b>Number and area of basement:</b>	Not Applicable
	<b>Number and area of podia:</b>	Not Applicable
	<b>Total Parking area:</b>	16340.18 sq.m.
	<b>Area per car:</b>	Not Applicable
	<b>Area per car:</b>	Not Applicable
	<b>Number of 2-Wheelers as approved by competent authority:</b>	Not Applicable
	<b>Number of 4-Wheelers as approved by competent authority:</b>	Not Applicable
	<b>Public Transport:</b>	Not Applicable
	<b>Width of all Internal roads (m):</b>	--
	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not Applicable
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	None in 10 km distance
	<b>Category as per schedule of EIA Notification sheet</b>	B
	<b>Court cases pending if any</b>	None
	<b>Other Relevant Informations</b>	-
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

<b>Environmental Impacts of the project</b>	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.
<b>Water Budget</b>	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
<b>Waste Water Treatment</b>	PP to provide oil and grease separator for the treatment of waste water. PP also to provide adequate capacity of STP for the treatment of domestic sewage.
<b>Drainage pattern of the project</b>	PP considered the contour levels while designing the internal drains.
<b>Ground water parameters</b>	As per data submitted by PP ground water parameters are within the prescribed limits at project site.



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<b>Solid Waste Management</b>	PP proposes to handover hazardous waste to the authorized vendors. Spent oil will be reused as lubricant.
<b>Air Quality &amp; Noise Level issues</b>	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 equipments, etc.
<b>Energy Management</b>	PP proposes 2 nos. of 320 KVA and 1 no. of 14 KVA DG set.
<b>Traffic circulation system and risk assessment</b>	PP to provide adequate parking space for the vehicles to avoid parking on public roads.
<b>Landscape Plan</b>	PP proposes to provide 33% green belt.
<b>Disaster management system and risk assessment</b>	PP informed that they are following OISD guidelines to handle emergency situations.
<b>Socioeconomic impact assessment</b>	PP has carried out socio economic impact study and included in the EIA report.
<b>Environmental Management Plan</b>	PP proposes EMP cost of Rs. 9.8 Lakhs as capital cost and Rs. 4.6 Lakhs of EMP cost for the maintenance of environmental parameters.
<b>Any other issues related to environmental sustainability</b>	Not Applicable

**Brief information of the project by SEAC**

SEAC-AGENDA-0000000216



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PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 154th meeting of SEAC-1 wherein ToR was granted to the PP for the preparation of EIA/EMP report.

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

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.

Now PP submitted EIA/EMP report for appraisal.

### DECISION OF SEAC


After deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal to the SEIAA for prior Environment Clearance subject to the following conditions.

#### Specific Conditions by SEAC:

- 1) PP to provide STP of capacity 10 KLD for the treatment of domestic sewage.
- 2) PP to provide adequate parking within the plot area.
- 3) PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.


### FINAL RECOMMENDATION

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

  
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## Agenda of 161th Meeting of State Level Expert Appraisal Committee (SEAC-1) (Day-3)

SEAC Meeting number: 161 Meeting Date February 15, 2019

**Subject:** Environment Clearance for Proposed 26 MW bagasse based Co-generation unit

**Is a Violation Case:** No

1.Name of Project	Proposed 26 MW bagasse based co-generation unit by M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd, Plot No 52/2, Limpangaon Village, Tal- Shrigonda, Dist- Ahmednagar, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.
4.Name of Consultant	M/s SGM Corporate Consultants Pvt. Ltd.
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	It is a Proposed New Project of 26 MW bagasse based Co-generation Plant with 180 Operational days
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Gat. No. 52/2
9.Taluka	Shrigonda
10.Village	Limpangaon
Correspondence Name:	Mr. R.S.Naik
Room Number:	Gat. No. 52/2
Floor:	Not Applicable
Building Name:	M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.
Road/Street Name:	Not Applicable
Locality:	Village- Limpangaon, Tal- Shrigonda, District- Ahmednagar
City:	Shrigonda
11.Area of the project	Grampanchayat Limpangaon
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area: 5545
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.)	331800
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.): 5545
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA Approved Non FSI area (sq. m.): NA Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	1304350000

## 22.Number of buildings & its configuration



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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Not applicable	Not applicable	Not applicable	
2	Not applicable	Not applicable	Not applicable	
<b>23.Number of tenants and shops</b>	Not applicable			
<b>24.Number of expected residents / users</b>	Not applicable			
<b>25.Tenant density per hectare</b>	Not applicable			
<b>26.Height of the building(s)</b>				
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	9 m			
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	9 m			
<b>29.Existing structure (s) if any</b>	Existing Sugar & Distillery Unit is present at site. Adequate space is available for proposed Co-gen Unit.			
<b>30.Details of the demolition with disposal (If applicable)</b>	Not applicable			
<b>31.Production Details</b>				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Proposed 26 MW bagasse based cogeneration unit	0	26 MW	26 MW
<b>32.Total Water Requirement</b>				



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<b>Dry season:</b>	<b>Source of water</b>	Ghod canal
	<b>Fresh water (CMD):</b>	938.4
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	5111.6
	<b>Fire fighting - Underground water tank(CMD):</b>	Proposed underground water tank of 1000 m3
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not Applicable
	<b>Excess treated water</b>	Recycled water for industrial use= 4120.2 m3
<b>Wet season:</b>	<b>Source of water</b>	Ghod canal
	<b>Fresh water (CMD):</b>	938.4
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	5111.6
	<b>Fire fighting - Underground water tank(CMD):</b>	Proposed underground water tank of 1000 m3
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not Applicable
	<b>Excess treated water</b>	Recycled water for industrial use= 4120.2 m3
<b>Details of Swimming pool (If any)</b>	Not applicable	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	6	6	0	1	1	0	5	5
Industrial Process	0	5111.6	5111.6	0	Loss= 938.4 m3, Recycle = 4120.2 m3	Loss= 938.4 m3, Recycle = 4120.2 m3	0	53	53

  
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<b>34. Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Around 50 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	Will be detailed & given in EIA report
	<b>Location of the RWH tank(s):</b>	Will be detailed & given in EIA report
	<b>Quantity of recharge pits:</b>	Will be detailed & given in EIA report
	<b>Size of recharge pits :</b>	Will be detailed & given in EIA report
	<b>Budgetary allocation (Capital cost) :</b>	20 Lacs
	<b>Budgetary allocation (O &amp; M cost) :</b>	2 Lac
	<b>Details of UGT tanks if any :</b>	Existing water reservoir capacity = 88500 m <sup>3</sup>
<b>35. Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Will be detailed in EIA report
	<b>Quantity of storm water:</b>	Will be detailed in EIA report on the basis of on site meteorological data & maximum rainfall data
	<b>Size of SWD:</b>	Will be detailed in EIA report
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	5
	<b>STP technology:</b>	Septic tank & Soak Pit
	<b>Capacity of STP (CMD):</b>	NA
	<b>Location &amp; area of the STP:</b>	
	<b>Budgetary allocation (Capital cost):</b>	15 Lac
	<b>Budgetary allocation (O &amp; M cost):</b>	1.5 Lac
<b>36. Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction waste debris
	<b>Disposal of the construction waste debris:</b>	To Authorized dealers
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Boiler Ash= 19.6 MT/D
	<b>Wet waste:</b>	Canteen waste
	<b>Hazardous waste:</b>	Not applicable
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Not applicable
	<b>Others if any:</b>	Not applicable

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Boiler Ash- Biocomposting
	<b>Wet waste:</b>	canteen waste- As manure in factory green belt area
	<b>Hazardous waste:</b>	Not applicable
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Not applicable
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Not applicable
	<b>Area for the storage of waste &amp; other material:</b>	0.5 Acre for Storage of Boiler Ash
	<b>Area for machinery:</b>	BUA= 5545 sq.m.
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	25 Lakh
	<b>O &amp; M cost:</b>	1.25 Lakh

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	6-6.5	5.5-8.5	5.5-8.5
2	SS	mg/lit	250-300	<100	<100
3	BOD	mg/lit	650-750	<100	<100
4	COD	mg/lit	1200-1400	<250	<250
5	TDS	mg/lit	800-950	<2100	<2100
Amount of effluent generation (CMD):		53			
Capacity of the ETP:		Existing sugar ETP capacity of 1000 CMD will accommodate the effluent from proposed co-gen unit also.			
Amount of treated effluent recycled :		53 CMD			
Amount of water send to the CETP:		Nil			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		ETP technofeasibility report is attached			
Disposal of the ETP sludge		Solid waste generated from Existing sugar ETP (Primary & secondary sludge) is being dried on separated sludge drying beds. Dried sludge is used as manure in company's farm land for cultivation.			

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	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	Proposed cogeneration unit boiler of 140 TPH	Bagasse requirement for 180 operational days = 228786.75 MT	1	73 m	4	150 Degree.C

### 40. Details of Fuel to be used

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Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse requirement for 180 operational days	0	228786.75 MT	228786.75 MT
41.Source of Fuel		Bagasse From Existing Sugar Unit		
42.Mode of Transportation of fuel to site		Bagasse From Existing Sugar Unit - Inline conveyor system. Through RBC (Return bagasse carrier)		
<b>43.Green Belt Development</b>	<b>Total RG area :</b>	109494 sq.m.		
	<b>No of trees to be cut :</b>	0		
	<b>Number of trees to be planted :</b>	Industry have already planted 2260 No. of trees. In future industry will plant about 19781 trees.		
	<b>List of proposed native trees :</b>	Refer Point v) below		
	<b>Timeline for completion of plantation :</b>	Green belt development plan is attached		
<b>44.Number and list of trees species to be planted in the ground</b>				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Aegle marmelos	Bel	1679	Native, deciduous shrub, cleans atmosphere by absorbing harmful gases.
2	Eucalyptus	Nilgiri	789	Evergreen, sturdy, fast growing graceful tree. It is particularly good in sequestering carbon.
3	Cocos nucifera	Nariyal	715	Native, coconut palms are medium sized, solitary herbaceous plant.
4	Mangifera indica	Mango	4489	Large evergreen tree with dense dome shaped crown.
5	Azadirachta indica	Neem	1056	Evergreen deciduous plant, helps to control soil erosion, effective for odour management.
6	Ficus racemosa	Umbar	953	Evergreen deciduous plant
7	Samanea saman	Rain Tree	878	Rain tree is an attractive, large spreading deciduous tree with low, dense, dome shaped crown. The dome-shaped, low crown provides a very strong shade even at low sun positions. The leaves fold up during rain, allowing more moisture to reach the crops below.
8	Tamarindus indica	Chinch	980	Tamarind is a long lived and beautiful fruiting tree, growing up to 30 metres tall with a dense, spreading crown. The deep roots make it very resistant to storms and suitable for windbreaks.

  
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9	Casuarina equisetifolia	Suru	798	Evergreen tree with a finely branched, feathery crown, usually growing from 6 - 35 metres tall. With high productivity and properties that enhance soil fertility, it shows promise as an agroforestry species for arid and semi-arid areas.
10	Banyan	Wad	983	Has the ability to survive & grow for centuries. Helpful in prevention of soil erosion.
11	Ficus religiosa	Peepal	982	Deciduous, evergreen, used as traditional medicine.
12	Acacia nilotica	Babul	754	Medium sized, thorny, nearly evergreen. Useful fodder source particularly in dry regions.
13	Tabernaemontana divaricata	Tagar	745	Native, Antioxidant, Antitumor, anti-infection, analgesic
14	Delonix regia	Gulmohar	935	Native, flowering plant, ornamental tree.
15	Plumeria	Chafa	746	Small ornamental tree, evergreen shrub.
16	Manilkara zapota	Chiku	528	Grow well in wide range of climatic conditions. Medically useful.
17	Terminalia catappa	Badam	987	Fast growing, deciduous or semi-evergreen tree. Its vast roots binds together both sands & poor soils. It has heavy leaf fall & so is a good provider of mulch for the protection of the soil.
18	Ziziphus mauritiana	Bor	784	Plants have an extensive root system and can be used to aid in the fixation of sand.

**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	0

**47.Energy**



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<b>Power requirement:</b>	<b>Source of power supply :</b>	Startup with MSEDCL & Susequently through own TG set.
	<b>During Construction Phase: (Demand Load)</b>	500 KW
	<b>DG set as Power back-up during construction phase</b>	Proposed DG sets- 1 x 750
	<b>During Operation phase (Connected load):</b>	Proposed DG sets- 1 x 750 KVA
	<b>During Operation phase (Demand load):</b>	7 MW for Sugar Unit, Distillery Unit, Boiler & Utilities
	<b>Transformer:</b>	Existing transformer of 500 KVA.
	<b>DG set as Power back-up during operation phase:</b>	Proposed DG sets- 2 x 900 KVA
	<b>Fuel used:</b>	HSD for Proposed DG sets (1 x 750 KVA) - 200 lit/h
	<b>Details of high tension line passing through the plot if any:</b>	Not Applicable

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

-

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

Serial Number	Energy Conservation Measures	Saving %
1	Recovery of Energy from condensate, Flue Gases	Will be detailed in EIA report
2	Variable Frequency Drives for fans & motors	Will be detailed in EIA report

#### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Stack of Proposed co-gen unit boiler of 140 TPH	NA	Electrostatic Precipitator

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

### 51. Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Noise, Water & Soil Pollution control & Occupational health & safety	-	2 Lacs

#### 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	Electrostatic Precipitator will be provided to the stack	The boiler will be equipped with high efficiency three field Electro Static Precipitator, which will remove the suspended particles and ash particles from the flue gas.	70	02
2	ETP	Existing sugar ETP of 1000 CMD will accomodate the effluent from co-gen unit also	150	10
3	Rainwater Harvesting	-	20	02
4	Occupational Health & Safety	-	15	03
5	Laboratory Equipment, Monitoring & Environmental Audit	-	15	03
6	Green belt development	-	20	04
7	Fire fighting for co-gen unit	-	45	2.5
8	Proposed Boiler Stack of co-gen unit	-	100	-
9	Ash handling system	-	100	03
10	Environmental Monitoring	-	-	02

### 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 application

### 52.Any Other Information

No Information Available

### 53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Not applicable
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<b>Parking details:</b>	<b>Number and area of basement:</b>	Not applicable
	<b>Number and area of podia:</b>	Not applicable
	<b>Total Parking area:</b>	Adequate space for parking will be provided
	<b>Area per car:</b>	Not applicable
	<b>Area per car:</b>	Not applicable
	<b>Number of 2-Wheelers as approved by competent authority:</b>	Not applicable
	<b>Number of 4-Wheelers as approved by competent authority:</b>	Not applicable
	<b>Public Transport:</b>	Not applicable
	<b>Width of all Internal roads (m):</b>	6 m
	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not applicable
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Not applicable
	<b>Category as per schedule of EIA Notification sheet</b>	Category B, Sr. No. 1 (d)
	<b>Court cases pending if any</b>	Not applicable
	<b>Other Relevant Informations</b>	NA
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

<b>Environmental Impacts of the project</b>	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.
<b>Water Budget</b>	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
<b>Waste Water Treatment</b>	PP proposes fullfledged effluent treatment plant. Treated effluent will be used in the farms owned by the PP and for the deveopment of green belt. PP to provide adequate capaccity of sewage treatment plant.
<b>Drainage pattern of the project</b>	PP considered the contour level in designing of the storm drains.



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<b>Ground water parameters</b>	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
<b>Solid Waste Management</b>	PP proposes fly ash conversion in to the biocomposting fertilizer.
<b>Air Quality &amp; Noise Level issues</b>	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
<b>Energy Management</b>	PP proposes 26 MW bagasse based Co-generation plant.
<b>Traffic circulation system and risk assessment</b>	PP proposes to provide minimum width of internal roads as six meter with nine meter turning radius.
<b>Landscape Plan</b>	PP proposes to provide 33% green belt.
<b>Disaster management system and risk assessment</b>	PP has prepared an Emergency Plan for handling emergency situations.
<b>Socioeconomic impact assessment</b>	PP has carried out socio economic impact study and included in the EIA report.
<b>Environmental Management Plan</b>	PP proposes EMP cost of Rs. 535 lakhs as capital cost and Rs. 31.5 lakhs as operation & maintenance cost to maintain environmental parameters.
<b>Any other issues related to environmental sustainability</b>	Not Applicable

### Brief information of the project by SEAC



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PP submitted their application for the grant of TOR under category 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 for installation of 26 MW cogeneration plant based on baggase in 150th meeting of SEAC-1 wherein ToR was granted to the PP.

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.

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

PP to carry out Public Consultation as per EIA Notification, 2006 and submit point wise compliance of all the issues raised during Public Consultation.

Public Hearing was conducted on 01.12.2018.

Now PP submitted EIA/EMP report for appraisal.

### DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal to the SEIAA for prior Environment Clearance subject to the following conditions.

#### Specific Conditions by SEAC:

- 1) PP to upload agreement/ permission obtained from the competent Authority to draw water from Ghod canal.
- 2) PP to ensure that no waste either liquid or solid shall be disposed off outside the premises without adequate treatment.
- 3) PP to prepare and implement CER plan in consultation with the District Collector as per OM issue dby MoEF&CC dated 01.05.2018.
- 4) PP to use new and renewable energy source for the illumination of street lights and office buildings.

  
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## FINAL RECOMMENDATION

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

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## Agenda of 161th Meeting of State Level Expert Appraisal Committee (SEAC-1) (Day-3)

**SEAC Meeting number: 161 Meeting Date February 15, 2019**

**Subject:** Environment Clearance for Proposed Kotgal Barrage Project across Wainganga River, Village Kotgal, Taluka and District Gadchiroli, Maharashtra by Vidarbha Irrigation Development Corporation (VIDC) Nagpur

**Is a Violation Case:** No

<b>1.Name of Project</b>	Proposed Kotgal Barrage Project across Wainganga River, Village Kotgal, Taluka and District Gadchiroli, Maharashtra by Vidarbha Irrigation Development Corporation (VIDC) Nagpur. Capacity: 7780 Ha CCA
<b>2.Type of institution</b>	Government
<b>3.Name of Project Proponent</b>	Executive Engineer, Gadchiroli Irrigation Division, Gadchiroli, by Chandrapur Irrigation Project Circle, Chandrapur under Vidarbha Irrigation Development Corporation (VIDC), Nagpur,
<b>4.Name of Consultant</b>	SMS Envocare Ltd. Pune MH
<b>5.Type of project</b>	Other (Barrage Project for Irrigation)
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not Applicable
<b>8.Location of the project</b>	Across Wainganga River, Village Kotgal
<b>9.Taluka</b>	Gadchiroli
<b>10.Village</b>	Kotgal
<b>Correspondence Name:</b>	Mr. A. A. Meshram, Executive Engineer Gadchiroli Irrigation Division, Gadchiroli
<b>Room Number:</b>	Complex Area
<b>Floor:</b>	-
<b>Building Name:</b>	-
<b>Road/Street Name:</b>	Mul-Chandrapur Road
<b>Locality:</b>	Gadchiroli
<b>City:</b>	Gadchiroli
<b>11.Area of the project</b>	Rural Area (Village Kotgal, Taluka and District Gadchiroli)
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	MWRRRA Approval (MWRRRA/2009/PRCL/VIDC/57/477) dated 29/07/2011. Original Administrative approval from Water Resource Department, Government of Maharashtra has been secured Vide Letter No. ????. ?????? ????. ????.???.???. - ????.???.???.(???.???.???) / ?..??.?., ?????????, ??????, ??????-???./???.?. 1st Revised Administrative Approval from VIDC, Nagpur vide L. No. VIDC/EDT-6(2)/Kotgal Barrage 1st RAA/2018 Dt, 31.12.2018 <b>IOD/IOA/Concession/Plan Approval Number:</b> As Above <b>Approved Built-up Area:</b> 7780
<b>13.Note on the initiated work (If applicable)</b>	Work has not be initiated
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	MWRRRA Approval (MWRRRA/2009/PRCL/VIDC/57/477) dated 29/07/2011. Original Administrative approval from Water Resource Department, Government of Maharashtra has been secured Vide Letter No. ????. ?????? ????. ????.???.???. - ????.???.???.(???.???.???) / ?..??.?., ?????????, ??????, ??????-???./???.?. 1st Revised Administrative Approval from VIDC, Nagpur vide L. No. VIDC/EDT-6(2)/Kotgal Barrage 1st RAA/2018 Dt, 31.12.2018
<b>15.Total Plot Area (sq. m.)</b>	Not applicable
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not applicable
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> Not applicable
	<b>b) Non FSI area (sq. m.):</b> Not applicable
	<b>c) Total BUA area (sq. m.):</b>
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b>
	<b>Approved Non FSI area (sq. m.):</b>
	<b>Date of Approval:</b> 31-12-2018
<b>19.Total ground coverage (m2)</b>	Not applicable

  
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20. Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21. Estimated cost of the project	964800000

## 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))	Minimum 6.5 to 9.0 meter width with required turning radius will be provided for proper transportation in the project area and connected road from project site to main road.		
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	As above		
29. Existing structure (s) if any	No any existing Structure available		
30. Details of the demolition with disposal (If applicable)	Not applicable		

## 31. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not Application as this is Barrage Project for Irrigation	Not Application as this is Barrage Project for Irrigation	Not Application as this is Barrage Project for Irrigation	Not Application as this is Barrage Project for Irrigation

## 32. Total Water Requirement

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<b>Dry season:</b>	<b>Source of water</b>	The water availability studies for Kotgal Barrage Project has been certified by C.E. Hydrology Project (SW), Nasik Vide certificate no. 561 dated 14.05.2010.
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	The water availability studies for Kotgal Barrage Project has been certified by C.E. Hydrology Project (SW), Nasik Vide certificate no. 561 dated 14.05.2010.
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Wet season:</b>	<b>Source of water</b>	The water availability studies for Kotgal Barrage Project has been certified by C.E. Hydrology Project (SW), Nasik Vide certificate no. 561 dated 14.05.2010.
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	The water availability studies for Kotgal Barrage Project has been certified by C.E. Hydrology Project (SW), Nasik Vide certificate no. 561 dated 14.05.2010.
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Details of Swimming pool (If any)</b>	Not applicable	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	NA	708	708	NA	142	142	NA	566	566


  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	4.10 m to 15.30 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	Not applicable
	<b>Location of the RWH tank(s):</b>	Not applicable
	<b>Quantity of recharge pits:</b>	Not applicable
	<b>Size of recharge pits :</b>	Not applicable
	<b>Budgetary allocation (Capital cost) :</b>	Not applicable
	<b>Budgetary allocation (O &amp; M cost) :</b>	Not applicable
	<b>Details of UGT tanks if any :</b>	Not applicable
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	From N direction to S direction
	<b>Quantity of storm water:</b>	Not applicable
	<b>Size of SWD:</b>	Not applicable
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	3.6
	<b>STP technology:</b>	Facility or Modular STP with modular Toilets will be provided during construction phase by selected contractor. Waste water treatment facility will also be provided during construction phase.
	<b>Capacity of STP (CMD):</b>	1
	<b>Location &amp; area of the STP:</b>	Within project site near shed
	<b>Budgetary allocation (Capital cost):</b>	21 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	2.5 lakhs/Annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	The spoil material will be stored or dumped properly in safe place. Thesame will be used for filling and internal road development. No miningwork is involved with the project. The average per capita solid waste generated will be of the order of about 250 gm./day/person. About 42.00 kg/day of Solid waste is expected to be generated by the construction labors.
	<b>Disposal of the construction waste debris:</b>	The spoil material will be stored or dumped properly is safe place. Thesame will be used for filling and internal road development. Adequatefacilities for collection conveyance of domestic waste duringconstruction shall be provided for safe disposal. Domestic solid waste shall be stored Separately into organic and inorganic material. Organic material will be managed by composting whereas inorganic material will be segregated into metallic and non-metallic material and shall be managed as per dir

  
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<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Total 700 kg of domestic waste will be generated. Thus the Volume of solid waste will be 2.5 m3.
	<b>Wet waste:</b>	Very less amount of wet waste will be generated.
	<b>Hazardous waste:</b>	Empty drums and containers, waste oil and soil collected near to DG set which may contain oil and grease will be generated during maintenance of project.
	<b>Biomedical waste (If applicable):</b>	Biomedical waste will only be generated if any injury or accident may happen. Whatever Biomedical Waste generated from the treatment of such causality will be stored as per New Biomedical Waste Management Rule, 2016.
	<b>STP Sludge (Dry sludge):</b>	35-40 kg/month
	<b>Others if any:</b>	Not applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Domestic solid waste shall be stored Separately into organic and inorganic material. Organic material will be managed by composting whereas inorganic material will be segregated into metallic and non-metallic material and shall be managed as per directives of MPCB and appointed authorized vendor.
	<b>Wet waste:</b>	Wet waste will be stored and shall manage by composting. Composted material shall be used as manure for plantation work.
	<b>Hazardous waste:</b>	Hazardous waste is generated shall be handled and stored at site as per Hazardous and Other Wastes (Management and Trans-boundary Movement) Rule, 2016. Ultimately this hazardous waste shall be sent to nearest TSD facility so that can be treated scientifically and can be disposed properly as per prevailing rule and directives.
	<b>Biomedical waste (If applicable):</b>	All bio-medical waste shall be managed as per Bio-medical Waste Management Rule, 2016. All the waste will be stored as per category of waste. The same shall be sent to nearest CBWTF.
	<b>STP Sludge (Dry sludge):</b>	Used as an manure
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Proper required storage facility will be provide for storage of Domestic waste, Biomedical waste and Hazardous waste. It shall be the responsibility of selected contractor to manage all kind of waste as per direction of CPCB/MPCB.
	<b>Area for the storage of waste &amp; other material:</b>	As above
	<b>Area for machinery:</b>	Not Applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Cost of the same is included in the total Capital cost of EMP
	<b>O &amp; M cost:</b>	Cost of the same is included in the total cost of EMP

### 37. Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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			

  
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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	Waste Oil & Grease	20	Kg/day	NA	As per Actual	As per Actual	Sent to CHWTSDF/ Authorized vendor
2	Biomedical Waste	BMW Cat. No. 9	Kg/day	NA	As per Actual	As per Actual	Sent to CBWTF

### 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 160 Kva	HSD	1	8.0	115 mm	195

### 40. Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not Applicable	As per actual	As per Actual

41. Source of Fuel

Local market

42. Mode of Transportation of fuel to site

Local market by road transportation

### 43. Green Belt Development

<b>Total RG area :</b>	Not applicable
<b>No of trees to be cut :</b>	It shall be ensured not to remove tree of other vegetation. If at it is required, it shall be removed scientifically so that can be be planted at another place.
<b>Number of trees to be planted :</b>	Various activities are proposed in the project area such as developing approach roads, quarrying for construction material, construction activities at barrage site and other infrastructure facilities etc. These project activities lead to degradation of the project area and increased pollution around different components of the Kotgal Barrage Project. Development of Green belt is essential to check this and also to reduce siltation of reservoir. Therefore, it is proposed that all along the roads,
<b>List of proposed native trees :</b>	Alstoniascholaris, Albizialebbeck, Azadirachta indica, Ficus religiosa, Melia azedarach, Mimosa pudica, Polyalthia longifolia, Terminalia arjuna, Azadirachta indica, Butea monosperma, Grevillea pterodifolia, Tamarindus indica, Terminalia arjuna, Lagerstroemia flosreginae, Anthocephalus cadamba, Bauhinia purpurea, Cassia fistula, Cassia siamea, Melia azedarach, Michelia champaca, Pongamia pinnata.
<b>Timeline for completion of plantation :</b>	Up to four year from construction period will be continue till completion of Total planned plantation programme

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Black Board tree	As per Requirement	Sulphur Dioxide Absorbing species
2	Albizia lebeck	Fry wood	As per Requirement	Sulphur Dioxide Absorbing species
3	Azadirachta indica	Neem	As per Requirement	Sulphur Dioxide Absorbing species

  
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4	Ficus religiosa	Banyan Tree	As per Requirement	Sulphur Dioxide Absorbing species
5	Melia azedarach	White Cedar	As per Requirement	Sulphur Dioxide Absorbing species
6	Mimusops Elengi	Spanish Cherry	As per Requirement	Sulphur Dioxide Absorbing species
7	Polyalthia longifolia	Ashoka	As per Requirement	Sulphur Dioxide Absorbing species
8	Terminalia arjuna	Arjuna Tree	As per Requirement	Sulphur Dioxide Absorbing species
9	Azadirachta indica	Neem	As per Requirement	Reduce Noise Pollution
10	Butea monosperma	Palash	As per Requirement	Reduce Noise Pollution
11	Grevillea ptehdifolia	Silky grevillea	As per Requirement	Reduce Noise Pollution
12	Melia azedarach	White Cedar	As per Requirement	Reduce Noise Pollution
13	Tamarindus indica	Tamarind	As per Requirement	Reduce Noise Pollution
14	Terminalia arjuna	Arjuna Tree	As per Requirement	Reduce Noise Pollution
15	Lagerstroemia flosreginae	Pride of India	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant
16	Anthocephalus cadamba	Kadam	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant
17	Bauhinia purpurea	Orchid Tree	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant
18	Cassia fistula	Golden Shower tree	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant
19	Cassia siamea	Kassod Tree	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant
20	Michelia champaca	Orange champak	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant
21	Pongamia pinnata	Indian beech	As per Requirement	Suspended Pollutant controlling Plant/Other Ornamental plant

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

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

Serial Number	Name	C/C Distance	Area m2
1	Proper plantation including Shrubs and small plants shall be planted at every available place and along with both the side of canal of all three LIS project	Proper plantation including Shrubs and small plants shall be planted at every available place and along with both the side of canal of all three LIS project	Proper plantation including Shrubs and small plants shall be planted at every available place and along with both the side of canal of all three LIS project

**47.Energy**



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<b>Power requirement:</b>	<b>Source of power supply :</b>	Maharashtra State Electricity Distribution Corporation Limited(MSEDCL)
	<b>During Construction Phase: (Demand Load)</b>	DG sets shall be provided as per requirement
	<b>DG set as Power back-up during construction phase</b>	DG sets shall be provided as per requirement
	<b>During Operation phase (Connected load):</b>	Total Power requirement for proposed scheme is estimated as 1.0 MVA and the same shall be sourced from MSEDCL.
	<b>During Operation phase (Demand load):</b>	Total Power requirement for proposed scheme is estimated as 1.0 MVA and the same shall be sourced from MSEDCL.
	<b>Transformer:</b>	Substation to be provided
	<b>DG set as Power back-up during operation phase:</b>	DG sets shall be provided as per requirement
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	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
Loss of vegetation	NA	Green Belt Development
Dust emission due to construction activities	NA	Regular Water Sprinkling
Emission from Transportation services	NA	Transportation of Raw material through closed trucks & Regular Water sprinkling
Generation of Solid, Hazardous, Biomedical and Construction waste	NA	Solid Waste management, Hazardous waste management, Construction waste management, Biomedical waste management etc.
Emission from DG set	NA	Stack with required height with DS sets
Diversion of forest and loss of forest land	NA	Compensatory Afforestation

  
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<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Not applicable
	<b>O &amp; M cost:</b>	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	Biodiversity & Wildlife Management Plan	Compensatory afforestation	20.0
2	Green Belt Development Plan	Plantation, Nursery development, maintenance etc.	7.25
3	Solid Waste & Sanitation Management Plan	Solid waste management, Haz. Waste Management, Biomedical waste management, Facility for sanitation, drinking water facility, health check-up and assistance etc.	21.20
4	Fisheries Management Plan	Hatchery formation and maintenance etc.	25.00
5	Health Management Plan	Medical and health support, vaccination, distribution of medicine, arrangement of mobile van, first aid post, PPEs etc.	43.75
6	Air Pollution Management	Transportation of Raw material through closed trucks, Maintenance of roads, plantation, regular water sprinkling etc.	5.00
7	Environmental Monitoring Plan	AAQ, GW/SW monitoring, inventory of Solid and hazardous waste, monitoring of plantation, ensuring use of PPEs, regular submission of Compliance report, ensuring the compliance of consent/ EC condition.	5.00

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


Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Biodiversity & Wildlife Management Plan	Compensatory afforestation	20.0	5.00
2	Green Belt Development Plan	Plantation, Nursery formation, maintenance etc.	7.25	2.00



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3	Solid Waste & Sanitation Management Plan	Solid waste management, Haz. Waste Management, Biomedical waste management, Facility for sanitation, drinking water facility, health check-up and assistance etc.	21.20	5.00
4	Fisheries Management Plan	Hatchery formation and maintenance etc.	25.00	5.00
5	Health Management Plan	Medical and health support, vaccination, distribution of medicine, arrangement of mobile van, first aid post, PPEs etc.	43.75	3.00
6	Air Pollution Management	Transportation of material through closed trucks, Maintenance of roads, plantation	5.00	5.00
7	Environmental Monitoring Plan	AAQ, GW/SW monitoring, inventory of Solid and hazardous waste, monitoring of plantation, ensuring use of PPEs, regular submission of Compliance report, ensuring the compliance of consent/ EC condition.	5.00	4.00

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

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

### 52.Any Other Information

No Information Available

### 53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Minimum 6.5 to 9.0 meter width with required turning radius will be provided for proper transportation in the project area and connected road from project site to main road.
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<b>Parking details:</b>	<b>Number and area of basement:</b>	Not applicable
	<b>Number and area of podia:</b>	Not applicable
	<b>Total Parking area:</b>	Approx. 50 sq. m
	<b>Area per car:</b>	Adequate area will be provided during construction phase for vehicle required for transportation of construction material and staff vans. Additional separate area will be identified to personal 4 wheeler and two wheeler vehicle. Parking facility will be provide during operation phase of the project near to admin building.
	<b>Area per car:</b>	Adequate area will be provided during construction phase for vehicle required for transportation of construction material and staff vans. Additional separate area will be identified to personal 4 wheeler and two wheeler vehicle. Parking facility will be provide during operation phase of the project near to admin building.
	<b>Number of 2-Wheelers as approved by competent authority:</b>	Not applicable
	<b>Number of 4-Wheelers as approved by competent authority:</b>	Not applicable
	<b>Public Transport:</b>	Public Transport facility are available at approachable distance at Kotgal Village. Rajuli Railway Station is also located at 28.63 km distance.
	<b>Width of all Internal roads (m):</b>	Minimum 6.5 to 9.0 meter width will be provided for proper transportation in the project area and connected road from project site to main road.
	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not Applicable
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Not within 10 km radius area from project site
	<b>Category as per schedule of EIA Notification sheet</b>	1 (c) as per EIA Notification, 2006 & as amended Category: "B" Category
	<b>Court cases pending if any</b>	There is no case pending against project and land



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	<p><b>Other Relevant Informations</b></p>	<p>1st Revised Administrative Approval from VIDC, Nagpur vide L. No. VIDC/EDT-6(2)/Kotgal Barrage 1st RAA/2018 Dt, 31.12.2018 In Principal Approval for Diversion of 56.86 ha forest land has been granted under Forest Conservation Act 1980 on dated 8th January, 2018.</p> <p>The detailed estimate for Kotgal Barrage Project is framed on the basis of General layout prepared. The rates for different items are adopted as per Irrigation CSR 2009-2010 &amp; PWD CSR 2009-2010 (Civil &amp; Mechanical). For RCC items separate analysis for Batching plant, Staging etc. are done. Provisions for Dewatering, de-silting &amp; Cofferdam are also being made in the estimate. Provision under 'A' Preliminary and 'B' Land etc. are also being considered in the estimate. The total original cost of the scheme is worked out to be Rs. 365.71 Cr. Inclusive of Direct and indirect Charges.</p> <p>The revised cost of the project is worked out to be Rs. 696.96 Cr. Total 1819.36 ha of area within River bank &amp; nearby low line areas will be submergence including 379.96 Ha of private land and 56.86 ha. of forest land. Total 56.86 ha of forest area will be submergence. Proposal for seeking prior approval of Central Government under the Forest (Conservation) Act 1980 has been submitted on 5th June, 2017 and Stage I Clearance has been granted by MOEFCC, Govt. of India vide letter Dated 08.01.2018.</p> <p>4 numbers of sluice gates of size 1.2X1.2 m are proposed for releasing controlled discharged of water for downstream requirements. River bed width at site is measured about 750 m (RD 690 to RD 1440 m). So 42 gates of 15.0 m each opening is proposed with pier width 3.0 m. and 4 number of piers are of 4.5 m width to accommodate the sluice gates. This arrangement covers the entire width of River. This way the gates shall be total 42 numbers of sizes 15.0 X 9.0 m each. End piers shall have width of 1.50 m.</p> <p>The left side 105 m portion of Barrage shall have foundation on RL 179.00, in middle 510 m of Barrage 183.00 &amp; rest Right side 105 m the foundation level proposed at RL 181.00 m. Foundation RL of protection work (Divide wall, Guide wall etc.) on L/S and R/S is proposed at RL 179.00 m and 181.00 m respectively. However these levels may be revised during execution as per actual strata met with.</p> <p>The Sill level of Barrage is proposed at RL 188.900 m which coincides with average bed level of the river.</p> <p>To store maximum yield and fulfill the requirements, the FRL is fixed at RL 197.900 m, which is well within the banks of River. Thus the live storage up to F.R.L. shall be 59.524 Mm<sup>3</sup>.</p> <p>The HFL at barrage site, considering the Designed discharge of river, worked out as 201.830 m.</p> <p>The AHFL calculations are done. Thus the afflux of 0.5 m is worked out. This way AHFL is fixed at RL 202.330 m.</p> <p>The gross catchment area up to the project site is 44200 sq. km. (17065.65 sq. miles) of which 14903 sq. km. lies in MP &amp; remaining 29297 sq. km. lies in Maharashtra State. The free catchment area considered for yield calculations are 4979.18 sq. km.</p>
	<p><b>Have you previously submitted Application online on MOEF Website.</b></p>	<p>Yes</p>
	<p><b>Date of online submission</b></p>	<p>02-02-2019</p>
<p><b>SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS</b></p>		
<p><b>Environmental Impacts of the project</b></p>	<p>Not Applicable</p>	
<p><b>Water Budget</b></p>	<p>Not Applicable</p>	



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

**Brief information of the project by SEAC**

**DECISION OF SEAC**

PP requested to delist the application as UID No. 660 is already uploaded for the same project.

Hence, SEAC decided to delist the application.

Specific Conditions by SEAC:

**FINAL RECOMMENDATION**

Kindly find SEAC decision above.



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