

## 147th Meeting of State Expert Appraisal Committee (SEAC-1)

**SEAC Meeting number: 147th Meeting Meeting Date February 16, 2018**


**Subject:** Environment Clearance for Environmental clearance for Expansion of Cane Crushing Capacity from 2,500 to 10,000 TCD and Setting up of New 32 MW Co-gen Unit

1.Name of Project	Jarandeshwar Sugar Mills Pvt. Ltd. ( JSMPL)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Prasad D. Rakshe
4.Name of Consultant	Mantras Green Resources Limited, Nashik
5.Type of project	Sugar and Co-gen Plant
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of Existing Cane Crushing Capacity and Setting up of New Co-gen Unit
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Gut No. 803, Post: Chimangaon
9.Taluka	Koregaon
10.Village	Chimangaon
11.Area of the project	No
12.IOD/IOA/Concession/Plan Approval Number	No
	IOD/IOA/Concession/Plan Approval Number: No
	Approved Built-up Area: 34021.31
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	8,34,742.81 m <sup>2</sup>
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
19.Total ground coverage (m <sup>2</sup> )	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	2468530000

### 22.Number of buildings & its configuration


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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	

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

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	2,500	7,500	10,000
2	Co-gen Unit	0	32 MW	32 MW


### 32.Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	Surface water (Tailganga River)
	<b>Fresh water (CMD):</b>	1395 CMD
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	1395 CMD
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable

  
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<b>Wet season:</b>	<b>Source of water</b>	Surface water (Tailganga River)
	<b>Fresh water (CMD):</b>	230 CMD
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	230 CMD
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable

**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	120	0	120	20	0	20	100	0	100
Industrial Process	60	465	525	10	240	250	50	225	275
Cooling tower & thermopack	250	500	750	200	400	600	50	100	150
Fresh water requirement	430	965	1395	230	640	870	200	325	525


  
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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>	75 m. dia & 4.600 m. height (1 No.) of Raw water Tank
	<b>Location of the RWH tank(s):</b>	Near Proposed Office Building
	<b>Quantity of recharge pits:</b>	1
	<b>Size of recharge pits :</b>	120 X 100 X 10 m.
	<b>Budgetary allocation (Capital cost) :</b>	6 Cr.
	<b>Budgetary allocation (O &amp; M cost) :</b>	10 Lac / Year
	<b>Details of UGT tanks if any :</b>	Not applicable
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Semi-dendritic drainage pattern.
	<b>Quantity of storm water:</b>	NA
	<b>Size of SWD:</b>	NA
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	75 KLD
	<b>STP technology:</b>	Latest technology
	<b>Capacity of STP (CMD):</b>	1 and capacity 90 KLD
	<b>Location &amp; area of the STP:</b>	Premises
	<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>	No
	<b>Disposal of the construction waste debris:</b>	No
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Bagasse, Press Mud, Fly Ash and Bottom Ash
	<b>Wet waste:</b>	Sludge from DM Plant, Sludge from ETP
	<b>Hazardous waste:</b>	No
	<b>Biomedical waste (If applicable):</b>	No
	<b>STP Sludge (Dry sludge):</b>	Sludge from STP
	<b>Others if any:</b>	Not applicable

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Bagasse will be used for power generation; Press Mud will be sold immediately to farmers for using as manure; Fly Ash and Bottom Ash will be used for bricks manufacturing .
	<b>Wet waste:</b>	Dewatering in sludge drying bed and dewatering dry sludge will be used as manure for gardening purpose
	<b>Hazardous waste:</b>	No any type hazardous waste generating in this unit
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Will be used as Manure in organic farming
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	NO
	<b>Area for the storage of waste &amp; other material:</b>	NO
	<b>Area for machinery:</b>	NO
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	30.00 lac
	<b>O &amp; M cost:</b>	7.66 lac

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	Not Applicable	4.5 to 6.5	6.5 to 8.5	5.5 to 8.5
2	Oil & Grease	mg/litre	10 to 20	<10	10
3	COD	mg/litre	2500 to 3500	< 250	250
4	BOD	mg/litre	1000 to 2000	< 100	100
5	TSS	mg/litre	500	<100	100
Amount of effluent generation (CMD):		525			
Capacity of the ETP:		1000 KLD			
Amount of treated effluent recycled :		100 %			
Amount of water send to the CETP:		Nil			
Membership of CETP (if require):		No			
Note on ETP technology to be used		UASB technology			
Disposal of the ETP sludge		After dewatering, dry sludge will be sent for landfilling			

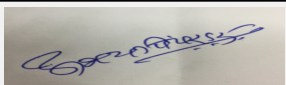

### 38. Hazardous Waste Details

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


### 39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Sugar and co-gen unit	Bagasse	1	82	4.5m	150 degree c

### 40. Details of Fuel to be used


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Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	700 TPD	1632 TPD	2332 TPD
41.Source of Fuel		Own Sugar Unit		
42.Mode of Transportation of fuel to site		Through Conveyer		
<b>43.Green Belt Development</b>	<b>Total RG area :</b>	NA		
	<b>No of trees to be cut :</b>	No		
	<b>Number of trees to be planted :</b>	2,000/Hectare		
	<b>List of proposed native trees :</b>	Aam, Ashok, Bel, Gulmohor, Nandruk, Shisham, Shiris, Silveroak, Neem, Ficus etc.		
	<b>Timeline for completion of plantation :</b>	Five years		
<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	Albizia lebbeck	Shiris	280	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	250	Large tree, good for roadside plantation
3	Saraca asoka	Sita Ashok	295	Shady tree with red-yellow flowers.
4	Ficus	Nandruk	290	Medium sized evergreen tree, Shady tree.
5	Grevillea robusta	silveroak	265	ornamental plant, Windbreak, gum resin,
6	Mangifera indica	Aam	140	Evergreen and erect growing, Anti inflammatory, Anti viral, Anti oxidant, Hepatoprotective
7	Aegle marmelos	Bel	80	Deciduous and aromatic tree with long, strong and axillary spines, Antidiarrheal, Anti dermatitis
8	Delonix regia	Gulmohor	150	Antibacterial, Antioxidant, shade tree
9	Dalbergia sissoo	Shisham	250	Timber tree , abortifacient, anthelmintic, antipyretic, aphrodisiac, expectorant and refrigerant properties.
<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	NA	NA	NA	
<b>47.Energy</b>				

  
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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEB
	<b>During Construction Phase: (Demand Load)</b>	MSEB: 350 KVA
	<b>DG set as Power back-up during construction phase</b>	DG Set: 320 KVA
	<b>During Operation phase (Connected load):</b>	11.5 MW
	<b>During Operation phase (Demand load):</b>	11.5 MW
	<b>Transformer:</b>	During operationh phase MSEB: 132/ 11 KV: 40 MVA
	<b>DG set as Power back-up during operation phase:</b>	1010 KVA X 2 Nos.
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	132 KV and 11 KV

#### 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
Air pollution are: Boiler, Stack emissions, DG set emissions, vehicular movement.	Wet Scrubber	Electrostatic Precipitator (ESP)
Boiler	Wet Scrubber	Electrostatic Precipitator (ESP)
Water Pollution - Sugar Mill	ETP	ETP
noise pollution due to presence of centrifugal pumps, motors, DG sets, EOT Crane	Green Belt (33%)	Green Belt (33%) and there will be provision of acoustic enclosure for DG Set and turbine

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


## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	No	No	No

### 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 equipments	Pollution Control Equipment for air pollution control measures	49.00	16.50
2	Chimney	Stack for air pollution control	25.63	4.00
3	Ash collection system	Proper collection and disposal of ash or dry waste	8.75	2.45
4	Water pollution control treatment	Water treatment plants ETP & STP	100.00	14.00
5	Noise Pollution control	Control measures for noise pollution	6.15	2.34
6	Solid waste Management	solid waste disposal and management in the form of manure and brick manufacturing	30.00	7.66
7	Occupational health	Safety measures in respect to health facilities will be provided to workers	12.85	4.80
8	Safety Management	Safety of workers will be monitored regularly and measures will be taken for the same	18.22	4.90
9	Development of green belt	Plantation of various native and other species developing the greenbelt area in 33% of total area	28.95	1.00
10	Maintenance of pollution control devices	Pollution control devices will be maintained properly	86.66	46.48
11	Expenses of CSR activities	CSR activities includes Education Development, Health management, rural road development, rainwater harvesting, organic farming & plantation	617.13	50.50
12	Total	Total	983.34	154.63

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

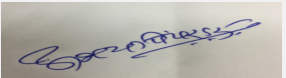
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	No storage involved	No storage involved	Not Applicable	Not Applicable	Not Applicable

## 52.Any Other Information

No Information Available


## 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not applicable
Parking details:	Number and area of basement:	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	20,000 .50 m2
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No any protected areas
	Category as per schedule of EIA Notification sheet	Category 'B' as per Schedule of EIA Notification , Project Activity 5 (j) & 1(d)
	Court cases pending if any	No

  
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	<b>Other Relevant Informations</b>	Not Applicable
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	08-03-2017


### TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
1. PP to submit an undertaking that they have not violated provisions of EIA Notification 2006 and amendments thereof	Absence of undertaking for Non- Violation	Undertaking by the PP having not violated provisions of EIA Notification 2006 attached
2. PP to submit Layout Plan showing internal roads, parking areas, location of pollution control equipment, 33% green belt area, etc.	Absence of internal roads, parking areas, location of pollution control equipment, 33% green belt area, etc.	Revised Layout Plan showing internal roads, parking areas, location of pollution control equipment, 33% green belt area, etc. attached
3. PP to submit to submit agreement signed with competent authority for lifting water from river Tailganga	Absence of agreement signed with competent authority for lifting water from river Tailganga	Water permission letter with competent authority for lifting water from river Tailganga attached
4. PP to submit details of byproducts generation and its use, disposal, etc.	Absence of details of byproducts generation and its use, disposal, etc.	Details of byproducts generation and its use, disposal, etc. is given.
5. PP to submit clarification regarding the proposed product as mentioned in the column no. 31 of Consolidated Statement, in case of any change in the same PP to submit request for the changes in the Consolidated Statement	Absence of clarification regarding the proposed product as mentioned in the column no. 31 of Consolidated Statement, in case of any change in the same PP to submit request for the changes in the Consolidated Statement	Request for change in Consolidated Statement regarding proposed product as mentioned in column no. 31 attached
6. PP to carry out and submit a report on life cycle analysis for activities involved in the manufacturing process within the factory premises	Report on life cycle analysis absent	Life cycle analysis carried out and submitted for manufacturing process within the factory premises is given
7. PP to submit copy of on site / off site emergency plan	On site / off site emergency plan absent	On site / off site emergency plan submitted

  
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8. PP to submit design details of all air pollution control system with respect to the type and quantity of fuel	Design details of all air pollution control system with respect to the type and quantity of fuel not given	Design details of all air pollution control system with respect to the type and quantity of fuel attached
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### Brief information of the project by SEAC

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

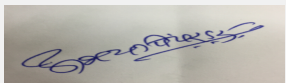
Public Hearing is applicable as per EIA Notification, 2006.

The ToR was granted in the 140th meeting of SEAC-I held on 20th July, 2017 as per standard ToR and additional ToR points as mentioned below,

1. PP to submit an undertaking that they have not violated provisions of EIA Notification, 2006 and amendments thereof.
2. PP to submit lay out plan showing internal roads, parking areas, locations of pollution control equipment, 33% green belt area etc.
3. PP to submit copy of agreement signed with competent authority for lifting water from river Tailganga.
4. PP to submit details of byproducts generation and its use, disposal etc.
5. PP to submit clarification regarding the proposed products as mentioned in the column No. 31 of consolidated statement; In case of any change in the same PP to submit request for the changes in the consolidated statement.
6. PP to carry out and submit a report on life cycle analysis for activities involved in the manufacturing process within the factory premises.
7. PP to submit copy of on site/ Off site emergency plan.
8. PP to submit design details of all air pollution control system with respect to the type and quantity of fuel.

Now PP submitted the Public Hearing report conducted on 10th October, 2017 along with EIA/EMP report for the appraisal.


### DECISION OF SEAC




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After deliberations, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the compliance of following points,

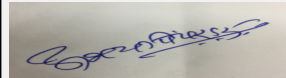
**Specific Conditions by SEAC:**

- 1) PP to submit legible lay out plan mentioning therein area statement.
- 2) PP to submit copy of agreement signed with competent authority for lifting water from river Tailganga and submit detailed water balance calculations.
- 3) PP to submit details of mitigation measures to reduce Global Warming Potential due to anaerobic treatment of the effluent.
- 4) PP to submit need base CSR activity plan to be prepared in consultation with the District Authorities along with funds availability and time limits for its implementation. PP to provide sanitation facilities to all the workers in the factory premises.

**FINAL RECOMMENDATION**


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

SEAC-AGENDA-00000000050

  
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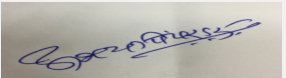
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**Subject:** Environment Clearance for Expansion of sugar mill from 3,500 TCD to 5,500 TCD and cogeneration unit from 12 MW to 27 MW

1.Name of Project	M/s. Kukadi Sahakari Sakhar Karkhana Ltd
2.Type of institution	TOR
3.Name of Project Proponent	M/s. Kukadi Sahakari Sakhar Karkhana Ltd
4.Name of Consultant	Vasantdada Sugar Institute, Majari (Bk)
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gut No. 91 & 92
9.Taluka	Shrigonda
10.Village	Pimpalgaon Pisa
11.Area of the project	Other Area: Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Not Applicable
	<b>Approved Built-up Area:</b>
13.Note on the initiated work (If applicable)	No work has been initiated for said work
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.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.):
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	717600000


### 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)			

  
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<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	9 m wide road
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Not applicable
<b>29.Existing structure (s) if any</b>	Not applicable
<b>30.Details of the demolition with disposal (If applicable)</b>	Not applicable

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	12075	11625	23700
2	Bagasse	28860	27840	56700
3	Molasses	4200	4050	8250
4	Press Mud	4200	4050	8250
5	Power	12 MW	10.15 MW	22.15 MW (During Season)
6	Power	-	11.66 MW	11.66 MW( During Off Season)


### 32.Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	Mohorwadi Reservoir
	<b>Fresh water (CMD):</b>	168
	<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>	168
	<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

  
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<b>Wet season:</b>	<b>Source of water</b>	Mohorwadi Reservoir
	<b>Fresh water (CMD):</b>	65
	<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>	65
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Details of Swimming pool (If any)</b>	Not applicable	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	15	3.5	18.5	1.5	0.15	1.65	13.5	1.35	14.85

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	10 m - 20 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	Size of storage tank : 50 * 60 * 2 m & Capacity: 6000 CM
	<b>Location of the RWH tank(s):</b>	Near Godown No. 102 & 103
	<b>Quantity of recharge pits:</b>	Not any
	<b>Size of recharge pits :</b>	Not any
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 7 .00 Lakhs
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 0.50 Lakhs
	<b>Details of UGT tanks if any :</b>	Not applicable

<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Study area shows highest order of drainage as 7th order.
	<b>Quantity of storm water:</b>	81033 cum/annum
	<b>Size of SWD:</b>	0.6 m * 0.45 m * 12500 m approx.

  
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<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	30 KLD
	<b>STP technology:</b>	Domestic sewage will be treated in septic tank and soak pits
	<b>Capacity of STP (CMD):</b>	Not applicable
	<b>Location &amp; area of the STP:</b>	--
	<b>Budgetary allocation (Capital cost):</b>	Rs. 15.00 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 2.00 lakhs

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	In minor quantity
	<b>Disposal of the construction waste debris:</b>	Top soil will be used for gardening purpose and excavated earth , debris will be used within the plot for re-filling and internal road development
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Ash: 4284 MT (During Season) & 664 MT(During Off Season)
	<b>Wet waste:</b>	ETP Sludge: 80 TPA
	<b>Hazardous waste:</b>	Spent Oil will be very minor
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Domestic sludge will be mixed into soil and disposed off
	<b>Others if any:</b>	Not any
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	The bagasse ash is usually rich in potash; hence, it will be directly applied into agriculture field or sold to the brick manufacturer as per their demand.
	<b>Wet waste:</b>	ETP sludge will be organic in nature; hence it is used as manure as a soil enriching materials.
	<b>Hazardous waste:</b>	Spent oil can be disposed off safely by giving it to authorized hazardous waste oil dealer. Alternatively, it will be burnt in the boiler along with bagasse.
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Domestic sludge will be mixed into soil and disposed off
	<b>Others if any:</b>	Not any
<b>Area requirement:</b>	<b>Location(s):</b>	--
	<b>Area for the storage of waste &amp; other material:</b>	Approx. 1.5 acre
	<b>Area for machinery:</b>	Not applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 140.00 Lakhs
	<b>O &amp; M cost:</b>	Rs. 5.00 Lakhs


### 37.Effluent Charecteristics

Serial Number	Parameters	Unit	Inlet Effluent Charecteristics	Outlet Effluent Charecteristics	Effluent discharge standards (MPCB)
1	pH	-	4 - 5.5	6.5 - 8.5	5.5 - 9.0

  
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2	BOD	mg/lit	1500 - 3000	<30	30
3	COD	mg/lit	2500 - 60000	< 250	250
4	Total Dissolved Solids	mg/lit	1800 - 2500	< 2100	2100
5	Total Suspended Solids	mg/lit	600 - 800	< 100	100
Amount of effluent generation (CMD):		700 CMD			
Capacity of the ETP:		Existing capacity of ETP 500 CM which will be enhanced to treat the effluent of 700 CMD from proposed capacity			
Amount of treated effluent recycled :		Approx. 690 CMD			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Activated Sludge process			
Disposal of the ETP sludge		ETP sludge will be organic in nature; hence it is used as manure as a soil enriching materials.			

### 38.Hazardous Waste Details


Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	lit/annum	110	50	160	Spent oil can be disposed off safely by giving it to authorized hazardous waste oil dealer. Alternatively, it will be burnt in the boiler along with bagasse.

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (Existing 40 TPH X 2)	Bagasse- 12075 MT/M	1	65	3.5 m	90
2	Boiler (Proposed 85 TPH)	Bagasse - 11625 MT/M	2	75	3.5 m	90


### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	12075 MT/M	11625 MT/M	23700 MT/M
41.Source of Fuel		Own sugar gactory		
42.Mode of Transportation of fuel to site		Fuel is available within the factory hence transportation is not required		

  
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<b>43.Green Belt Development</b>	<b>Total RG area :</b>	20 Acre: Existing 19 acre & Proposed 1 acre
	<b>No of trees to be cut :</b>	Not any
	<b>Number of trees to be planted :</b>	Existing: 1600 No. of trees and 1000 no of trees will be planted
	<b>List of proposed native trees :</b>	Babhul, Subhabul, Bel, Shirish, Sita Phal, Kadamba, Neem, Knchan etc trees will be planted in the factory premises
	<b>Timeline for completion of plantation :</b>	Approx. 2 to 3 years


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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Acacia nilotica	Babhul	70	Dust tolerant, very common in the region
2	Acacia leucophloea	Subhaul	110	Tolerant to air pollution, very common in the region
3	Aegal marmalose	Bel	95	Tolerant to air pollution, common in the region
4	Albizia saman	Shirish	130	Tolerant of CO2
5	Anona squamosa	Sita Phal	75	Fly ash tolerant
6	Azadiracta indica	Neem	140	Fly ash tolerant ,Tolerant of alkaline and Saline soil, common in the area
7	Bauhinia purpurea	Kanchan	60	Dust tolerant, cultivated near residential areas
8	Bauhinia variegata	Kachnar	40	Soluble sodium 1.0 to 2.0
9	Butea monosperma	Palas	50	--
10	Cassia fistula	Bahava	70	pH 7.5 to 8.4, cultivated near residential areas
11	Cordia spp	Bokar	50	Dust Tolerant
12	Delonix regia	Gulmohor	50	Fly ash tolerant
13	Emblica officinalis	Avala	60	--

#### 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	Hibiscus	1 X 1 m	25
2	Shankasur	1 X 1 m	20
3	Ixora	1 X 1 m	15
4	Tagar	1 X 1 m	15
5	Powder Puff	1 X 1 m	20
6	Alamanda	1 X 1 m	25
7	Hemalia petans	1 X 1 m	30
8	Chitrak (Plumbago)	1 X 1 m	25
9	Gardenia lucida	1 X 1 m	20
10	Cassia biflora	1 X 1 m	15

  
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## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	Captive
	<b>During Construction Phase: (Demand Load)</b>	From captive source
	<b>DG set as Power back-up during construction phase</b>	Not applicable
	<b>During Operation phase (Connected load):</b>	7.50 MW
	<b>During Operation phase (Demand load):</b>	--
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	DG set will be used only in case of total power failure i.e. captive as well as electricity board power supply
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	NA

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

NA

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

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler	Wet Scrubber	Electro Static Precipitator

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

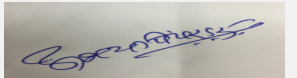
## 51. Environmental Management plan Budgetary Allocation

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

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

### 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 Equipments	Electro Static precipitator	132	-
2	Ash & Bagasse Handling	-	115	-

  
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3	Cooling Tower	-	180	-
4	Fire Proection	-	25	5.0
5	RCC Stack	-	100	-
6	Greenbelt	-	14	1.50

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

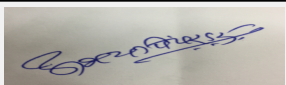
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

### 52.Any Other Information

No Information Available


### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not applicable
Parking details:	Number and area of basement:	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Not applicable
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6 m wide
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	Category B: For Sugar: 5 (j), For Thermal Project: 1 (d)

  
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	<b>Court cases pending if any</b>	Not applicable
	<b>Other Relevant Informations</b>	Not applicable
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	10-07-2017
<b>Brief information of the project by SEAC</b>		

SEAC-AGENDA-00000000050

PP earlier presented proposal to the SEAC-1 in 132nd meeting held on 4th and 5th August, 2016 wherein committee decided to approve the TOR for the preparation of EIA/EMP report. PP conducted Public Hearing on 21st April 2017. The proposal is for increase in the crushing capacity from 3500 TCD to 5500 TCD and cogeneration unit from 12 MW to 27 MW.

PP submitted EIA report to the committee.


The proposal was considered in 141st meeting of SEAC-1 and was deferred till PP submits compliance of following points,

1. PP to submit commitment for achieving 100% drip irrigation for cane farming in their scope.
2. PP to comply with the standard parameters to reuse treated ETP water for on-land irrigation; PP to submit an undertaking in this regard.
3. PP to submit layout plan of the factory approved by District Collector/Competent Authority.
4. PP to submit structural stability of the existing buildings on site.
5. During deliberation PP informed that 500 KLD treated water will be used by the distillery where as the distillery is not existing on site and is proposed activity for which PP has submitted application for prior EC to the MoEF&CC. Looking at the same PP to submit revised water budget showing consumption and reuse of water considering available resources.
6. PP to submit copy of agreement made with Irrigation Department for lifting water from Morwadi Dam.
7. PP to revise EMP costs and include the cost required for ETP installation and operation and maintenance.
8. PP to add clear cut conclusions of the EIA studies carried out including socioeconomic impacts of the proposed activity. (Qualitative and Quantitative)
9. PP to submit point wise reply of the issues raised in the Public Hearing.

The proposal was again considered in the 143rd meeting of SEAC wherein after detailed deliberations SEAC-1 observed that PP has not submitted pointwise and relevant compliance of the issues raised in earlier meetings and also the quality of the compliance submitted is poor and hence decided to defer the proposal till PP submits the compliance of following points,

1. PP to submit methodology to achieve 100% drip irrigation for sugar cane cultivation in their factory jurisdiction. PP to include details of financial arrangements through bank loans, Government subsidy, factory share etc. to achieve the same and submit resolution from the board of directors of the factory in this regard.
2. PP to submit layout plan duly approved by the competent authority indicating therein internal roads, 33% green belt, location of pollution control equipment, parking areas etc.
3. PP to submit structural stability certificate of the existing building to ascertain that existing buildings can take the load of proposed constructions.
4. PP to include in EIA report the socio economic impact of the proposed activity.

Now PP submitted the compliance of above points.

  
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## DECISION OF SEAC

After deliberations, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA.

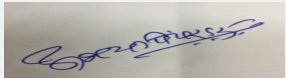
### Specific Conditions by SEAC:

- 1) PP to ensure compliance of the points mentioned in the Structural Stability Certificate.

## FINAL RECOMMENDATION

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

SEAC-AGENDA-00000000050

  
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## 147th Meeting of State Expert Appraisal Committee (SEAC-1)

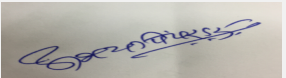
**SEAC Meeting number: 147th Meeting Meeting Date February 16, 2018**

**Subject:** Environment Clearance for Proposed Expansion of Synthetic Organic Chemicals Manufacturing Facility By M/s Deepak Novochem Technologies Ltd, D-27/3/1 & D-27/2, MIDC Lote Parshuram Dist: Ratnagiri , Maharashtra

<b>1.Name of Project</b>	Proposed Expansion of Synthetic Organic Chemicals Manufacturing Facility By M/s Deepak Novochem Technologies Ltd, D-27/3/1 & D-27/2, MIDC Lote Parshuram Dist: Ratnagiri , Maharashtra
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	M/s Deepak Novochem Technologies Ltd
<b>4.Name of Consultant</b>	Aditya Environmental Services Pvt. Ltd.
<b>5.Type of project</b>	Industrial Project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	Expansion within existing facility
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	D-27/3/1 & D-27/2, MIDC Lote Parshuram
<b>9.Taluka</b>	Khed
<b>10.Village</b>	Lote
<b>Correspondence Name:</b>	Mr. Prasad H. Kamble
<b>Room Number:</b>	NA
<b>Floor:</b>	NA
<b>Building Name:</b>	NA
<b>Road/Street Name:</b>	NA
<b>Locality:</b>	NA
<b>City:</b>	NA
<b>11.Area of the project</b>	Maharashtra Industrial Development Corporation- Lote Parshuram
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	Plot plan approval
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Plot plan approval
	<b>Approved Built-up Area:</b> 9157
<b>13.Note on the initiated work (If applicable)</b>	Not applicable
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	Plot plan approval from MIDC
<b>15.Total Plot Area (sq. m.)</b>	54,033 sq.m.
<b>16.Deductions</b>	Not applicable
<b>17.Net Plot area</b>	Not applicable
<b>18.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> 7026.14
<b>19.Total ground coverage (m2)</b>	Not applicable
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	Not applicable
<b>21.Estimated cost of the project</b>	960000000


## 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

  
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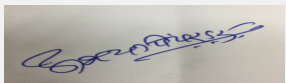
  
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23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	Minimum 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m.
29.Existing structure (s) if any	Existing facility: Production plant, Raw material storage, Storage tanks, Thermic Fluid heater, Boiler, Effluent Treatment plant, Admin Bldg, R & D plant, Green belt,
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	Ortho Cresol	2400 TPA	0	2400 TPA
2	D - Novacan	2400 TPA	0	2400 TPA
3	Xylenol (Trimethyl phenol, higher methylated phenol,mix xylenols)	2400 TPA	0	2400 TPA
4	2,6 Xylenol (2,6 Dimethyl phenol)	1200 TPA	0	1200 TPA
5	2,6 Xylidine (2,6 Dimethyl amine)	3000 TPA	0	3000 TPA
6	Ortho methoxy Toluene (OMT)	192 TPA	0	192 TPA
7	Ortho methyl cyclo hexanol acetate	192 TPA	0	192 TPA
8	Bis phenols - TMBPF/ TMBPA	600 TPA	400 TPA	1000 TPA
9	Glycidyl ether (ortho cresol/Phenol /Mix GE)	600 TPA	0	600 TPA
10	HMP ethoxylate (Ethoxylate of higher methylated phenol)	120 TPA	0	120 TPA
11	Tri methyl Hydroquinone	240 TPA	0	240 TPA

  
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12	Methylated Benzene (Tetra methyl benzene) like tri methyl benzene/ di methyl benzene	0	600 TPA	600 TPA
13	2,6 Dimethyl Cyclohexanone	0	2100 TPA	2100 TPA
14	Methylated Phenol /Benzene like [Cresol (ortho/ meta/ para), 2,6 Xylenol, Xylenol (2,3,6 TMP/ Higher Methylated Phenol/ Mix Xylenol), Tetra methyl benzene, Dimethyl Benzene, Tri methyl benzene]	0	3000 TPA	3000 TPA
15	Bis phenols (Tetra methyl Bisphenol-F, Tetra methyl Bisphenol-A,)	0	5000 TPA	5000 TPA
16	Bis phenols (Dimethyl Bisphenol -A)	0	1200 TPA	1200 TPA
17	Bis phenols (Tetra methyl Bisphenol -S, Dimethyl Bisphenol -C, Bisphenol-E, Bisphenol -Z, Bisphenol -TMC, BIS-OPPFL]	0	600 TPA	600 TPA
18	Bi-phenols (Tetra Methyl Bi phenol, Di Methyl Bi phenol )	0	1200 TPA	1200 TPA
19	Liquor ammonia (By product)	240 KL/A	0	240 KL/A
20	Novalacs (By product)	36 TPA	341 TPA	377 TPA


### 32.Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	MIDC
	<b>Fresh water (CMD):</b>	290 cmd
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	482 cmd
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable

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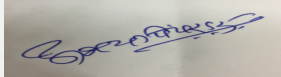
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<b>Wet season:</b>	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>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

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


**33.Details of Total water consumed**

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	14	24	38	8	5	13	6	19	25
Industrial Process	2.9	23.1	26	0	0	0	2.9 + 13 (Reaction water)	23.1 + 19 (Reaction water)	26 + 32 (Reaction water)
Cooling tower & thermopack	120.6	268.4	389	120	160	280	0.6	108.4	109
Gardening	4	25	29	4	25	29	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>	1 No. of 150 cum underground tank & 1 No. of 300 cum underground tank
	<b>Location of the RWH tank(s):</b>	Within plot
	<b>Quantity of recharge pits:</b>	NA
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	15 Lakhs
	<b>Budgetary allocation (O &amp; M cost) :</b>	0.5 Lakhs
	<b>Details of UGT tanks if any :</b>	Yes
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	NA
	<b>Quantity of storm water:</b>	NA
	<b>Size of SWD:</b>	NA
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	25 cmd
	<b>STP technology:</b>	Collection tank > Bar screen > oil & Grease trap > Aeration tank > Tube settler > Activated carbon filter > Sand filter > Disinfection > Final treated water tank
	<b>Capacity of STP (CMD):</b>	1 no. of 25 CMD capacity
	<b>Location &amp; area of the STP:</b>	within plot
	<b>Budgetary allocation (Capital cost):</b>	Refer EMP budget
	<b>Budgetary allocation (O &amp; M cost):</b>	Refer EMP budget
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Minor quantity of Demolition waste
	<b>Disposal of the construction waste debris:</b>	As per rule
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Boiler Ash, Wooden scrap, Plastic scrap, MS/SS/Aluminum Scrap, Paper Waste/card board, Used insulation material, Safety helmet, safety goggles, hand gloves
	<b>Wet waste:</b>	Canteen/Kitchen Waste, STP Sludge,
	<b>Hazardous waste:</b>	Used /Spent Oil Waste /oil soaked Cotton, Spent catalyst, Distillation Residue from Methylated Benzene, Distillation Residue from Bisphenols, Distillation residue (from Bi Phenols), Discarded containers/ barrels/ Liners contaminated with Hazardous Waste/ Chemicals, Flue gas cleaning residue, Chemical sludge arising from Effluent Treatment Plant, Spent Carbon or Filter Media, Used Asbestos /Teflon packing's, E waste, Electrical bulbs, Tubes, Electrical cables, Used lead acid batteries, Reagent bo
	<b>Biomedical waste (If applicable):</b>	Biomedical waste
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA


<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	As per rule
	<b>Wet waste:</b>	As per rule
	<b>Hazardous waste:</b>	As per CHWTSDF rule 2016
	<b>Biomedical waste (If applicable):</b>	as per rule
	<b>STP Sludge (Dry sludge):</b>	As per rule
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	within plot
	<b>Area for the storage of waste &amp; other material:</b>	within plot
	<b>Area for machinery:</b>	within plot
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	5 lakhs
	<b>O &amp; M cost:</b>	100 Lakhs

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	4-9	6.5-7.2	6.5-7.2
2	COD	mg/L	90,000-95,000	250	< 250
3	BOD	mg/L	25,000-30,000	100	< 100
4	TSS	mg/L	2000-5000	100	< 100
5	TDS	mg/L	5000-7000	2100	< 2100
6	O & G	mg/L	1000-2000	10	< 10
Amount of effluent generation (CMD):		Trade effluent: 167 cmd			
Capacity of the ETP:		200			
Amount of treated effluent recycled :		Trade effluent: 167 cmd & Domestic sewage: 25 cmd			
Amount of water send to the CETP:		Proposed project will maintain Zero Liquid discharge facility.			
Membership of CETP (if require):		Yes.			
Note on ETP technology to be used		Process effluent > Stripper > Settler > Neutralization tank > Toluene extraction > Resin Bed > Collection tank (Utilities & Process effluent) > Filtration > RO Unit > MEE unit > Final treated collection tank > Recycle to Utilities/ Green belt/ plant washing			
Disposal of the ETP sludge		To CHWTSDF			


### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used /Spent Oil	5.1	TPA	0	4	4	Approved Oil Re processor
2	Waste /oil soaked Cotton	5.2	TPA	0	1.5	1.5	Sale to registered reprocessor
3	Spent catalyst	18.1	TPA	20	15	35	to CHWTSDF
4	Distillation Residue from Methylated Benzene	20.3	TPA	0	514	514	to CHWTSDF

  
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5	Distillation Residue from Bisphenols	20.3	TPA	0	122	122	to CHWTSDF
6	Distillation residue (from Bi Phenols)	20.3	TPA	0	197	197	to CHWTSDF
7	Discarded containers/ barrels/ Liners contaminated with Hazardous waste chemicals	33.1	No./A	0	10,000	10,000	MPCB Approved Scrap Dealer
8	Flue gas cleaning residue	35.1	TPA	0	2	2	to CHWTSDF
9	Chemical sludge arising from Effluent Treatment Plant	35.3	TPA	0	100	100	to CHWTSDF
10	Spent Carbon or Filter Media	36.2	TPA	0	4	4	to CHWTSDF
11	Used Asbestos /Teflon packing's	B-1	TPA	0	4	4	to CHWTSDF
12	E waste, Electrical bulbs, Tubes, Electrical cables	NA	TPA	0	2	2	Sent to approved reprocessor/Agency
13	Used lead acid batteries	NA	Nos./A	0	100	100	By back / Sent Approved Dealer
14	Biomedical waste from OHC	NA	Kg/A	0	5	5	Disposal MPCB approved agency
15	Reagent bottles	NA	Nos./A	0	500	500	Sale to Autorised Agency.


### 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	30 Lac kcal/hr capacity Thermic fluid heater	Briquette: 24 TPD	4	35	1.0	142
2	Thermic Fluid Heater (6 Lac kcal/hr, 10 Lac Kcal/Hr, 10 Lac Kcal/Hr, 15 Lac Kcal/Hr), Baby Boiler (2 Nos. of 850 Kg/Hr)	Furnace Oil: 12.03 TPD OR Natural Gas: 4605 Nm3/Day	1	44 (Common stack)	0.75	173
3	35 lac kcal/hr Thermic fluid heater	Natural Gas: 9,840 Nm3/Day	7	42	0.6	150
4	5 T/hr capacity Steam Boiler	Furnace Oil: 7.30 TPD OR Natural Gas: 8140 Nm3/day	8	40	0.6	160
5	500 KVA DG sets	HSD: 100 Lit/hr	2	4.5	as per statutory requirement	150
6	500 KVA DG sets (replace with 320 KVA)	HSD: 100 Lit/hr	3	4.5	as per statutory requirement	150
7	500 KVA DG sets	HSD: 100 Lit/hr	9	4.5	as per statutory requirement	150

  
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8	Ammonia Scrubber of Xylidine plant	NA	5	25	as per statutory requirement	ambient temp.
9	Ammonia Scrubber of Novocan plant	NA	6	25	as per statutory requirement	ambient temp.
10	2,6 Dimethyl cyclohexanone (Hydrogenation)	NA	10	25	as per statutory requirement	ambient temp.
11	Methylated Benzene Plant	NA	11	25	as per statutory requirement	ambient temp.
12	MEE Stack	NA	12	25	as per statutory requirement	ambient temp.
13	Methylated Phenol/ Benzene plant	NA	13	25	as per statutory requirement	ambient temp.
14	Bis /Bi phenol Plant	NA	14	25	as per statutory requirement	ambient temp.

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

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	100 Lit/Hr	200 Lit/Hr	300 Lit/Hr
2	Furnace oil	7.9 TPD	11.43 TPD	19.33 TPD
3	Briquette	24 TPD	0	24 TPD
4	Natural Gas	0	22,585 Nm3/day	22,585 Nm3/day
41.Source of Fuel		From nearby source		
42.Mode of Transportation of fuel to site		By road		

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	Green Belt Area within plot: 13,391.15 sq.m, Green Belt Area outside plot: 2166.62 sq.m
	<b>No of trees to be cut :</b>	Not applicable
	<b>Number of trees to be planted :</b>	as per green belt area
	<b>List of proposed native trees :</b>	0
	<b>Timeline for completion of plantation :</b>	as pe project completion phase


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

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

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


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

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

  
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## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	from MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	750 KVA for expansion
	<b>DG set as Power back-up during construction phase</b>	Existing 350 KVA DG set will be replaced with 500 KVA DG set. Total 3 nos. of 500 KVA DG set will be available.
	<b>During Operation phase (Connected load):</b>	750 KVA for expansion
	<b>During Operation phase (Demand load):</b>	750 KVA for expansion
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	Existing 350 KVA DG set will be replaced with 500 KVA DG set. Total 3 nos. of 500 KVA DG set will be available.
	<b>Fuel used:</b>	HSD: 300 Lit/Hr
	<b>Details of high tension line passing through the plot if any:</b>	NA

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

solar panels will be installed on Admin building roof top.

## 49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

## 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
From Fuel burning sources	Multi-cyclone dust collector, Adequate stack height	Adequate stack height
From Process emission	Process scrubber	Process scrubber, Seal pot
Effluent from utilities & process, Domestic sewage	Effluent treatment plant, Soak pit	Effluent treatment plant, RO, MEE, Sewage treatment plant
Hazardous waste from process operations	to CHWTSDF, Authorized recyclers	to CHWTSDF, Authorized recyclers

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	10 lakhs
	<b>O &amp; M cost:</b>	0.5 lakhs



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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	NA	NA	NA

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Process scrubber, Adequate stack	5	2
2	Environment Monitoring	Environment Monitoring	5	2
3	Water Pollution Control	ETP, RO, MEE, STP	250	25
4	Hazardous waste & Solid waste management	Hazardous waste disposal	5	100
5	Green Belt Development	Green Belt Development	25	5
6	Occupational Health & Safety	Occupational Health & Safety	200	50
7	Green Initiatives	Rain Water Harvesting	15	0.5
8	Green Initiatives	Solar Power	10	0.5
9	Green Initiatives	Energy Conservation (LED)	0	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
O-cresol	Existing	within plot	20 KL	20 KL	as per requirement	from nearby source	from nearby source
Phenol	2 No. of Existing	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Methanol	Existing	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Acetonitrile	Existing	within plot	15 KL	15 KL	as per requirement	from nearby source	from nearby source
NaOH	Existing	within plot	20 KL	20 KL	as per requirement	from nearby source	from nearby source
Liq NH3	Existing	within plot	20 KL	20 KL	as per requirement	from nearby source	from nearby source


  
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Furnace Oil	Existing	within plot	60 KL	60 KL	as per requirement	from nearby source	from nearby source
2, 6 DMCHnone	2 Nos. of Existing	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
2,6 Xylidine	2 Nos. of Existing	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
M-Cresol	2 Nos. of Existing	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Mix Xylenol	Existing	within plot	65 KL	65 KL	as per requirement	from nearby source	from nearby source
Acetic Acid	Existing	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Toluene	Proposed	within plot	25 KL	25 KL	as per requirement	from nearby source	from nearby source
Acetone	Proposed	within plot	25 KL	25 KL	as per requirement	from nearby source	from nearby source
Benzene	Proposed	within plot	25 KL	25 KL	as per requirement	from nearby source	from nearby source
Methanol	Proposed	within plot	50 KL	50 KL	as per requirement	from nearby source	from nearby source
2,6 Xylenol	Proposed	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Hydrogen cylinder Trolley	Proposed	within plot	300 cylinder	300 cylinder trolley	as per requirement	from nearby source	from nearby source
Hydrogen Cylinder	Proposed	within plot	100 KL	100 KL	as per requirement	from nearby source	from nearby source
Ammonia Tonner (400 kg each)	15 Nos. Proposed	within plot	0	0	as per requirement	from nearby source	from nearby source
Dry HCl Tonner (600 kgs each)	6 Nos. Proposed	within plot	0	0	as per requirement	from nearby source	from nearby source
Dry HCL Cylinder (32 kgs each)	72 Nos. Proposed	within plot	0	0	as per requirement	from nearby source	from nearby source
O-cresol	Proposed	within plot	20 KL	20 KL	as per requirement	from nearby source	from nearby source
Phenol	Proposed	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Sulphuric acid	Proposed	within plot	15 KL	15 KL	as per requirement	from nearby source	from nearby source
Acetone	Proposed	within plot	20 KL	20 KL	as per requirement	from nearby source	from nearby source

  
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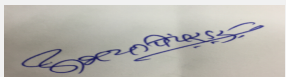
Methanol	Proposed	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
Toluene	Proposed	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source
6 T-Butyl 2 methyl phenol	Proposed	within plot	20 KL	20 KL	as per requirement	from nearby source	from nearby source
3,3,5 Trichlorohexanone	Proposed	within plot	15 KL	15 KL	as per requirement	from nearby source	from nearby source
Furnace oil	Proposed	within plot	60 KL	60 KL	as per requirement	from nearby source	from nearby source
2,6 Xylenol	Proposed	within plot	80 KL	80 KL	as per requirement	from nearby source	from nearby source

### 52.Any Other Information

No Information Available


### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	3,412 sq.m.
	Area per car:	as per norms
	Area per car:	as per norms
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable

  
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	<b>Category as per schedule of EIA Notification sheet</b>	5(f)- B Synthetic Organic chemical manufacturing facility
	<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>	Yes
	<b>Date of online submission</b>	01-01-1900


### TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
12.IOD/IOA/Concession/Plan Approval Number	Plot plan approval IOD/IOA/Concession/Plan Approval Number: Plot plan approval Approved Built-up Area: 9157	Plot plan approval IOD/IOA/Concession/Plan Approval Number: Plot plan approval Approved Built-up Area: 9577.5
18.Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): Not applicable Non FSI area (sq. m.): Not applicable Total BUA area (sq. m.): 7026.14	FSI area (sq. m.): Not applicable Non FSI area (sq. m.): Not applicable Total BUA area (sq. m.): 11379
31.Production Details	14 Methylated Phenol /Benzene like [Cresol (ortho/ meta/ para), 2,6 Xylenol, Xylenol (2,3,6 TMP/ Higher Methylated Phenol/ Mix Xylenol), Tetra methyl benzene, Dimethyl Benzene, Tri methyl benzene] 0 3000 TPA 3000 TPA	14 Methylated Phenol /Benzene like [Cresol (ortho/ meta/ para), 2,6 Xylenol, Xylenol (2,3,6 TMP/ Higher Methylated Phenol/ Mix Xylenol), Tetra methyl benzene, Dimethyl Benzene, Tri methyl benzene] 0 2400 TPA 2400 TPA
31.Production Details	15 Bis phenols (Tetra methyl Bisphenol-F, Tetra methyl Bisphenol-A,) 0 5000 TPA 5000 TPA	15 Bis phenols (Tetra methyl Bisphenol-F, Tetra methyl Bisphenol-A,) 0 1956 TPA 1956 TPA
31.Production Details	20 Novalacs (By product) 36 TPA 341 TPA 377 TPA	20 Novalacs (By product) 36 TPA 149 TPA 185 TPA
32.Total Water Requirement	Dry season: Source of water MIDC Fresh water (CMD): 290 cmd Recycled water - Flushing (CMD): Not applicable Recycled water - Gardening (CMD): Not applicable Swimming pool make up (Cum): Not applicable Total Water Requirement (CMD) : 482 cmd Fire fighting - Underground water tank(CMD): Not applicable Fire fighting - Overhead water tank(CMD): Not applicable Excess treated water Not applicable	Dry season: Source of water MIDC Fresh water (CMD): 258 cmd Recycled water - Flushing (CMD): Not applicable Recycled water - Gardening (CMD): Not applicable Swimming pool make up (Cum): Not applicable Total Water Requirement (CMD) : 409 cmd Fire fighting - Underground water tank(CMD): Not applicable Fire fighting - Overhead water tank(CMD): Not applicable Excess treated water Not applicable
33.Details of Total water consumed	Particula rs Consumption (CMD) Loss (CMD) Effluent (CMD) Water Require ment Existing Proposed Total Existing Proposed Total Existing Proposed Total Domestic 14 24 38 8 5 13 6 19 25 Industrial Process 2.9 23.1 26 0 0 0 2.9 + 13 (Reaction water) 23.1 + 19 (Reaction water) 26 + 32 (Reaction water) Cooling tower & thermopa ck 120.6 268.4 389 120 160 280 0.6 108.4 109 Gardening 4 25 29 4 25 29 0 0 0	Particula rs Consumption (CMD) Loss (CMD) Effluent (CMD) Water Require ment Existing Proposed Total Existing Proposed Total Existing Proposed Total Domestic 14 24 38 8 5 13 6 19 25 Industrial Process 2.9 22.0 25 0 0 0 2.9 + 13 (Reaction water) 22.0 + 9 (Reaction water) 25 + 22 (Reaction water) Cooling tower & thermopa ck 120.6 196.0 317.0 120 118 238 0.6 78.0 78.6 Gardening 4 25 29 4 25 29 0 0 0


  
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38.Effluent Charecterestics	<p>Serial Number Parameters Unit Inlet Effluent Charecterestics Outlet Effluent Charecterestics Effluent discharge standards (MPCB) 1 pH -- 4-9 6.5-7.2 6.5-7.2 2 COD mg/L 90,000-95,000 250 &lt; 250 3 BOD mg/L 25,000-30,000 100 &lt; 100 4 TSS mg/L 2000-5000 100 &lt; 100 5 TDS mg/L 5000-7000 2100 &lt; 2100 6 O &amp; G mg/L 1000-2000 10 &lt; 10 Amount of effluent generation (CMD): Trade effluent: 167 cmd Capacity of the ETP: 200 Amount of treated effluent recycled : Trade effluent: 167 cmd &amp; Domestic sewage: 25 cmd Amount of water send to the CETP: Proposed project will maintain Zero Liquid discharge facility. Membership of CETP (if require): Yes. Note on ETP technology to be used Process effluent &gt; Stripper &gt; Settler&gt; Neutralization tank &gt; Toluene extraction &gt; Resin Bed &gt; Collection tank (Utilities &amp; Process effluent) &gt; Filtration &gt; RO Unit &gt; MEE unit &gt; Final treated collection tank &gt; Recycle to Utilities/ Green belt/ plant washing Disposal of the ETP sludge To CHWTSDF</p>	<p>Serial Number Parameters Unit Inlet Effluent Charecterestics Outlet Effluent Charecterestics Effluent discharge standards (MPCB) 1 pH -- 4-9 6.5-7.2 6.5-7.2 2 COD mg/L 90,000-95,000 250 &lt; 250 3 BOD mg/L 25,000-30,000 100 &lt; 100 4 TSS mg/L 2000-5000 100 &lt; 100 5 TDS mg/L 5000-7000 2100 &lt; 2100 6 O &amp; G mg/L 1000-2000 10 &lt; 10 Amount of effluent generation (CMD): Trade effluent: 126 cmd Capacity of the ETP: 200 Amount of treated effluent recycled : Trade effluent: 126 cmd &amp; Domestic sewage: 25 cmd Amount of water send to the CETP: Proposed project will maintain Zero Liquid discharge facility. Membership of CETP (if require): Yes. Note on ETP technology to be used Process effluent &gt; Stripper &gt; Settler&gt; Neutralization tank &gt; Toluene extraction &gt; Resin Bed &gt; Collection tank (Utilities &amp; Process effluent) &gt; Filtration &gt; RO Unit &gt; MEE unit &gt; Final treated collection tank &gt; Recycle to Utilities/ Green belt/ plant washing Disposal of the ETP sludge To CHWTSDF</p>
44.Green Belt Development	<p>Total RG area : Green Belt Area within plot: 13,391.15 sq.m, Green Belt Area outside plot: 2166.62 sq.m No of trees to be cut : Not applicable Number of trees to be planted : as per green belt area List of proposed native trees : 0 Timeline for completion of plantation : as pe project completion phase</p>	<p>Total RG area : Green Belt Area within plot: 18,000 sq.m, No of trees to be cut : Not applicable Number of trees to be planted : as per green belt area List of proposed native trees : 0 Timeline for completion of plantation : as pe project completion phase</p>
45.Number and list of trees species to be planted in the ground	<p>Serial Number Name of the plant Common Name Quantity Characteristics &amp; ecological importance 1 NA NA NA NA</p>	<p>Serial Number Name of the plant Common Name Quantity Characteristics &amp; ecological importance 1 Anona squamosa Custard apple 50 Evergreen, Tall 2 Mimusops elengi Bakuli 80 Evergreen, 3 Lagerstroemia speciosa Queen Crape Myrtle 100 Evergreen, 4 Polyalthia longifolia Ashok 105 Evergreen, Tall 5 Careya arborea Kumbhi 100 Evergreen, 6 Mangifera indica Mango 75 Evergreen, Tall 7 Ficus glomerata Umber 75 Evergreen, Tall 8 Hardwickia binata Anjan 125 Evergreen, Tall 9 Aegle marmelos Bel 75 Evergreen, 10 Feronia elephantum Kawath 60 Evergreen, 11 Cochlospermum religiosum Ganeri 75 Evergreen, 12 Holoptelea integrifolia Ainsadada/ Vavla 50 Evergreen, 13 Balaniles roxburghii Hinganbet/Hingu 25 Evergreen, 14 Helicteris isora Murad sheng 75 Evergreen, 15 Gymnosporia montana Henkal 20 Evergreen, 16 Holarrhena puboscens Pandhra-Kuda 25 Evergreen, 17 Bauhinia racemosa Astha 60 Evergreen, 18 Gardenia jasminoides Anant 35 Evergreen, 19 Bauhinia purpurea Butterfly Tree 30 Deciduous 20 Nyctanthus arbor-tristic Parijatak 10 Deciduous</p>

  
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54. Traffic Management	Nos. of the junction to the main road & design of confluence: NA Parking details: Number and area of basement: NA Number and area of podia: NA Total Parking area: 3,412 sq.m. Area per car: as per norms Area per car: as per norms Number of 2- Wheelers as approved by competent authority: NA Number of 4- Wheelers as approved by competent authority: NA Public Transport: NA Width of all Internal roads (m): Minimum 6 m CRZ/ RRZ clearance obtain, if any: Not applicable Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries Not applicable Category as per schedule of EIA Notification sheet 5(f)- B Synthetic Organic chemical manufacturing facility Court cases pending if any Not applicable Other Relevant Informations NA Have you previously submitted Application online on MOEF Website Yes Date of online submission 01-01-1900	Nos. of the junction to the main road & design of confluence: NA Parking details: Number and area of basement: NA Number and area of podia: NA Total Parking area: 6,500 sq.m. Area per car: as per norms Area per car: as per norms Number of 2- Wheelers as approved by competent authority: NA Number of 4- Wheelers as approved by competent authority: NA Public Transport: NA Width of all Internal roads (m): Minimum 6 m CRZ/ RRZ clearance obtain, if any: Not applicable Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries Not applicable Category as per schedule of EIA Notification sheet 5(f)- B Synthetic Organic chemical manufacturing facility Court cases pending if any Not applicable Other Relevant Informations NA Have you previously submitted Application online on MOEF Website Yes Date of online submission 01-01-1900
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### Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 129th meetin g of SEAC-1 wherein ToR was granted for proposed expansion of the project on existing plot No. D-27/3/1 and newly purchased plot No. D-27/2.

PP submitted EIA/EMP report for appraisal in 145th meeting wherein following decision was taken,

*During deliberation PP informed that they have purchased new plot No. D-27/2 on which expansion of earlier activities on old plot is proposed.*

*Committee observed that though PP is proposing expansion of existing activities on newly purchsaed plot but MIDC has not yet issued an order in respect of the amalgamation of both plots.*

*PP advised to obtain amalgamation order from the MIDC and then PP may submit integrated proposal to SEAC for further appraisal.*

Now PP informed that they have amalgamated both plots.

### DECISION OF SEAC

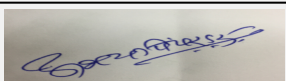
After detailed deliberations, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the compliance of following points,

#### Specific Conditions by SEAC:

1) PP to submit need base CSR activity plan in consultation with the District Authorities along with time schedule for its implementation. PP to maintain separate account for CSR/EMP funds.

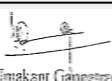
### FINAL RECOMMENDATION

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

  
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## 147th Meeting of State Expert Appraisal Committee (SEAC-1)

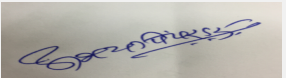
**SEAC Meeting number: 147th Meeting Meeting Date February 16, 2018**

**Subject:** Environment Clearance for SAND MINING - DISTRICT SOLAPUR

1.Name of Project	SAND MINING- DISTRICT SOLAPUR
2.Type of institution	Government
3.Name of Project Proponent	DISTRICT COLLECTOR SOLAPUR
4.Name of Consultant	STATE GOVERNMENT PROJECT
5.Type of project	SAND MINING
6.New project/expansion in existing project/modernization/diversification in existing project	NEW PROJECT
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NEW PROJECT
8.Location of the project	Ardhnari -38p, 29,28 and 26, Bathan- 102/1 to 106, 108 to 111, 114-119, 122 to 124, 129 to 132, 135, 139 to 174
9.Taluka	MOHOL-MANGALWEDHA
10.Village	ARDHNARI-BATHAN
Correspondence Name:	MOHOL-MANGALWEDHA
Room Number:	MOHOL-MANGALWEDHA
Floor:	NOT APPLICABLE
Building Name:	NOT APPLICABLE
Road/Street Name:	MOHOL-MANGALWEDHA
Locality:	MOHOL-MANGALWEDHA
City:	MOHOL-MANGALWEDHA
11.Area of the project	GOVERNMENT
12.IOD/IOA/Concession/Plan Approval Number	District collector has consented to grant a mining lease after getting E.C for Ordinary sand vide their letter number REV/WS-2/MB/RR-274/18 dated 20/01/2018
	<b>IOD/IOA/Concession/Plan Approval Number:</b> District collector has consented to grant a mining lease after getting E.C for Ordinary sand vide their letter number REV/WS-2/MB/RR-274/18 dated 20/01/2018
	<b>Approved Built-up Area:</b>
13.Note on the initiated work (If applicable)	SAND MINING PROJECT
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	N.O.C GIVEN BY GROUND WATER SURVEY AND DEVELOPMENT AGENCY
15.Total Plot Area (sq. m.)	24.59 HEC. FOR SAND MINING
16.Deductions	NOT APPLICABLE
17.Net Plot area	24.59 HEC.
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NOT APPLICABLE (SAND MINING PROJECT)
	b) Non FSI area (sq. m.): NOT APPLICABLE (SAND MINING PROJECT)
	c) Total BUA area (sq. m.): 24.59
19.Total ground coverage (m2)	245871
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	SAND MINING PROJECT
21.Estimated cost of the project	33675000


### 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT

  
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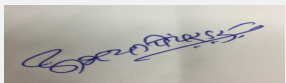
2	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT
3	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT
4	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT	NOT APPLICABLE- SAND MINING PROJECT

<b>23.Number of tenants and shops</b>	NO ANY TENANTS AND SHOPS NEAR THIS SAND MIINING PROJECT
<b>24.Number of expected residents / users</b>	NO ANY RESIDENTS NEAR THIS SAND MINING PROJECT
<b>25.Tenant density per hectare</b>	NOT APPLICABLE- SAND MINING PROJECT
<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>	NO FIRE PROBLEM (35KM MOHOL CITY)
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	NO FIRE PROBLEM
<b>29.Existing structure (s) if any</b>	NO ANY RIVERINE/RESIDENTIAL STRUCTURE NEAR BY TO PROJECT
<b>30.Details of the demolition with disposal (If applicable)</b>	NO ANY DEMOLITION WITH DISPOSAL

### 31.Production Details


Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	NATURAL ORDINARY SAND	339700 BRASS	101910 BRASS	441610 BRASS

### 32.Total Water Requirement

  
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<b>Dry season:</b>	<b>Source of water</b>	NO WATER REQUIRED								
	<b>Fresh water (CMD):</b>	NO WATER REQUIRED								
	<b>Recycled water - Flushing (CMD):</b>	NO WATER REQUIRED								
	<b>Recycled water - Gardening (CMD):</b>	NO WATER REQUIRED								
	<b>Swimming pool make up (Cum):</b>	NO WATER REQUIRED								
	<b>Total Water Requirement (CMD) :</b>	NO WATER REQUIRED								
	<b>Fire fighting - Underground water tank(CMD):</b>	NO WATER REQUIRED								
	<b>Fire fighting - Overhead water tank(CMD):</b>	NO WATER REQUIRED								
	<b>Excess treated water</b>	NO WATER REQUIRED								
<b>Wet season:</b>	<b>Source of water</b>	NO IN STREAM MINING								
	<b>Fresh water (CMD):</b>	NO IN STREAM MINING								
	<b>Recycled water - Flushing (CMD):</b>	NO IN STREAM MINING								
	<b>Recycled water - Gardening (CMD):</b>	NO IN STREAM MINING								
	<b>Swimming pool make up (Cum):</b>	NO IN STREAM MINING								
	<b>Total Water Requirement (CMD) :</b>	NO IN STREAM MINING								
	<b>Fire fighting - Underground water tank(CMD):</b>	NO IN STREAM MINING								
	<b>Fire fighting - Overhead water tank(CMD):</b>	NO IN STREAM MINING								
	<b>Excess treated water</b>	NO IN STREAM MINING								
<b>Details of Swimming pool (If any)</b>	NO IN STREAM MINING									
<b>33.Details of Total water consumed</b>										
<b>Particulars</b>	<b>Consumption (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent (CMD)</b>			
<b>Water Requirement</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	
Industrial Process	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	NO WATER REQUIRED	


  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Size and no of RWH tank(s) and Quantity:</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Location of the RWH tank(s):</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Quantity of recharge pits:</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Size of recharge pits :</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Budgetary allocation (Capital cost) :</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Budgetary allocation (O &amp; M cost) :</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Details of UGT tanks if any :</b>	NO MINING WHEN SAND SPOT UNDER WATER
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	DENDRITIC
	<b>Quantity of storm water:</b>	NO MINING WHEN SAND SPOT UNDER WATER
	<b>Size of SWD:</b>	NO MINING WHEN SAND SPOT UNDER WATER
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	NOW SEWAGE GENERATED WHILE SAND MINING
	<b>STP technology:</b>	NOW SEWAGE GENERATED WHILE SAND MINING
	<b>Capacity of STP (CMD):</b>	NOW SEWAGE GENERATED WHILE SAND MINING
	<b>Location &amp; area of the STP:</b>	NOW SEWAGE GENERATED WHILE SAND MINING
	<b>Budgetary allocation (Capital cost):</b>	NOT APPLICABLE
	<b>Budgetary allocation (O &amp; M cost):</b>	NOT APPLICABLE
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Disposal of packing material, carried by the workers. This packing material would include used sachet/gutka/pan masala pouches.
	<b>Disposal of the construction waste debris:</b>	No foreign material like polythene bag, jute bag and useless articles should be allowed to remain/spill in river bed and catchment area, or no pits/pockets will be allowed to be filled with such material.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Disposal of packing material, carried by the workers LIKE sachet/gutka/pan masala pouches
	<b>Wet waste:</b>	NO WET WASTE
	<b>Hazardous waste:</b>	NO ANY HAZARDOUS WASTE
	<b>Biomedical waste (If applicable):</b>	NO ANY BIOMEDICAL WASTE
	<b>STP Sludge (Dry sludge):</b>	NOT APPICABLE
	<b>Others if any:</b>	N.A.

  
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	MITIGATING MEASURES WILL TAKE AS PER EMP
	<b>Wet waste:</b>	NO WET WASTER, IF ANY, MITIGATING MEASURES WILL TAKE AS PER EMP
	<b>Hazardous waste:</b>	NO HAZARDOUS WASTER, IF ANY, MITIGATING MEASURES WILL TAKE AS PER EMP
	<b>Biomedical waste (If applicable):</b>	NO BIOMEDICAL WASTER, IF ANY, MITIGATING MEASURES WILL TAKE AS PER EMP
	<b>STP Sludge (Dry sludge):</b>	NOT APPLICABLE
	<b>Others if any:</b>	NOT APPLICABLE
<b>Area requirement:</b>	<b>Location(s):</b>	NOT REQUIRED AS NO SUCH HUGE SOLID WASTE GENERATE IN SAND MINING PROJECT, IF ANY, MITIGATING MEASURE WILL TAKE AS PER EMP PREPARED BY MINE OWNER
	<b>Area for the storage of waste &amp; other material:</b>	NOT APPLICABEL
	<b>Area for machinery:</b>	NOT APPLICABEL
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NOT APPLICABEL
	<b>O &amp; M cost:</b>	NOT APPLICABEL

### 37. Effluent Charecteristics


Serial Number	Parameters	Unit	Inlet Effluent Charecteristics	Outlet Effluent Charecteristics	Effluent discharge standards (MPCB)
1	NO ANY EFFLUENT	NO ANY EFFLUENT	NO ANY EFFLUENT	NO ANY EFFLUENT	NO ANY EFFLUENT
Amount of effluent generation (CMD):		NO ANY EFFLUENT WHILE SAND MINING			
Capacity of the ETP:		NO ANY EFFLUENT WHILE SAND MINING			
Amount of treated effluent recycled :		NO ANY EFFLUENT WHILE SAND MINING			
Amount of water send to the CETP:		NO ANY EFFLUENT WHILE SAND MINING			
Membership of CETP (if require):		NO ANY EFFLUENT WHILE SAND MINING			
Note on ETP technology to be used		NO ANY EFFLUENT WHILE SAND MINING			
Disposal of the ETP sludge		NO ANY EFFLUENT WHILE SAND MINING			

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING	NO ANY HAZARDOUS WASTE GENERATE WHILE SAND MINING


### 39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
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1	NO STACK EMISSION IN SAND MINING	NO STACK EMISSION IN SAND MINING	NO STACK EMISSION IN SAND MINING	NO STACK EMISSION IN SAND MINING	NO STACK EMISSION IN SAND MINING	NO STACK EMISSION IN SAND MINING
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**40.Details of Fuel to be used**

Serial Number	Type of Fuel	Existing	Proposed	Total
1	DIESEL ( FOR VEHICLE AND GENERATOR)	AS PER REQUIREMENT	AS PER REQUIREMENT	AS PER REQUIREMENT
41.Source of Fuel		NEAREST PETROL PUMP		
42.Mode of Transportation of fuel to site		AS PER CONVENIENCE		

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	To stabilize the river bank erosion the plantation of native species of that area along the river bank.
	<b>No of trees to be cut :</b>	NO ANY TREES WILL BE CUT
	<b>Number of trees to be planted :</b>	AS PER MINE LEASE AREA
	<b>List of proposed native trees :</b>	PEEPAL, MANGO, NEEM, TAMARIND, BANYAN AND ANY OTHER SUITABLE TREES FOR THE LAND
	<b>Timeline for completion of plantation :</b>	FROM DATE OF ISSUING ORDER TO 30 SEP 2018

**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	PEEPAL	PEEPAL	AS PER MINE LEASE AREA	GREEN BELT DEVELOPMENT
2	MANGO	MANGO	AS PER MINE LEASE AREA	GREEN BELT DEVELOPMENT
3	NEEM	NEEM	AS PER MINE LEASE AREA	GREEN BELT DEVELOPMENT

**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	NO ANY SHRUBS AND BUSHES	NO ANY SHRUBS AND BUSHES	NO ANY SHRUBS AND BUSHES

**47.Energy**

<b>Power requirement:</b>	<b>Source of power supply :</b>	POWER GENERATOR
	<b>During Construction Phase: (Demand Load)</b>	AS PER REQUIREMENT
	<b>DG set as Power back-up during construction phase</b>	AS PER REQUIREMENT
	<b>During Operation phase (Connected load):</b>	AS PER REQUIREMENT
	<b>During Operation phase (Demand load):</b>	AS PER REQUIREMENT
	<b>Transformer:</b>	AS PER REQUIREMENT
	<b>DG set as Power back-up during operation phase:</b>	AS PER REQUIREMENT
	<b>Fuel used:</b>	DIESEL
	<b>Details of high tension line passing through the plot if any:</b>	NO ANY HIGH TENSION LINE PASSING THROUGH THE SAND SPOT

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

SOLAR PANEL

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

Serial Number	Energy Conservation Measures	Saving %
1	AS PER REQUIREMENT	AS PER REQUIREMENT

#### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY


<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	AS PER REQUIREMENT OF MINE OWNER
	<b>O &amp; M cost:</b>	AS PER REQUIREMENT OF MINE OWNER

### 51. Environmental Management plan Budgetary Allocation

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


Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY

#### 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	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY	MINE OWNER WILL SUBMIT EMP BEFORE COMMENCING MINING ACTIVITY

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

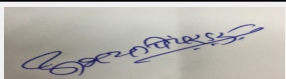
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING	NO ANY CHEMICALS REQUIRED FOR SAND MINING

### 52.Any Other Information

No Information Available


### 53.Traffic Management

	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	ONLY TWO ROADS ARE ALLOWED (ONE FOR ENTRY AND OTHER FOR EXIT)
<b>Parking details:</b>	<b>Number and area of basement:</b>	AS PER REQUIREMENT
	<b>Number and area of podia:</b>	AS PER REQUIREMENT
	<b>Total Parking area:</b>	AREA ADJACENT TO ALLOTTED RIVER BED REGION
	<b>Area per car:</b>	AS PER REQUIREMENT
	<b>Area per car:</b>	AS PER REQUIREMENT
	<b>Number of 2-Wheelers as approved by competent authority:</b>	AS PER REQUIREMENT
	<b>Number of 4-Wheelers as approved by competent authority:</b>	DEPENDS UPON STAKE HOLDER CAPACITY
	<b>Public Transport:</b>	AS PER REQUIREMENT
	<b>Width of all Internal roads (m):</b>	AS PER REQUIREMENT
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NO CRZ CLEARANCE REQUIRED
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NOT APPLICABLE

  
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	<b>Category as per schedule of EIA Notification sheet</b>	B2 category of Minor Mineral Mining
	<b>Court cases pending if any</b>	PRESENTLY NO ANY COURT CASES ARE PENDING REGARDING THIS SAND SPOT
	<b>Other Relevant Informations</b>	MINING ACTIVITY WILL BE STRICTO-SENSO ACCORDING TO THE SUSTAINABLE SAND MINING GUIDELINES, ALL NGT ORDERS AND DIRECTIONS WILL FOLLOW, SUBMISSION OF SCHEMATIC APPROVED MINING PLAN AND ENVIRONMENTAL MANAGEMENT PLAN WILL BE COMPULSORY OF MINE OWNER PRIOR TO TAKE POSSESSION OF SAND SPOT FOR FURTHER ACTIVITY.
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

### Brief information of the project by SEAC

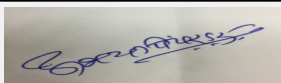
The District Collector ,Solapur through an auction process had allotted the Sand Ghat /River Bed Sand Mine to Shri. Raghunath Ananda Nagane for the mining and transport over an area of 24.59 Ha in Bhima River at Mouze - Ardhanari-Bathan, Tehsil Mohol-Mangalwedha, District Solapur for the sand deposits of 104256 Brass vide Order No. MASHA/KARYA-3/GAUKHA/SR/85/17 dated 11.12.2017 for the period of Seven Months Twenty Days from date 27.02.2017 to 30.09.2017.

On date 17.03.2017 vide order No. MASHA/KARYA-2/85/17; The District Collector has given letter to the applicant to stop the mining activity till the Honble National Green Tribunal, New Delhi's next decision.

In view of above the District Collector of Solapur vide Order No. MASHA/KARYA-1/GOKH/RR/2620/17 dated 19.12.2017 directed the applicant to prepare a mining plan for an area of 24.59 Ha and get approved the same from the Directorate of Geology and Mining and also obtain the Environment Clearance.


Now District Collector submitted the application for Environment Clearance along with the copies of Mining Plan, EMP, District Survey Report , Prefeasibility report etc.

### DECISION OF SEAC

  
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During discussion District Mining Officer, the representative of the District Collector informed that the sand ghat area applied for is having deposit of 104256 brass sand. But now Government in Revenue and Forest Department has given permission to the lessee to mine his balance of 101910 Brass sand subject to the Environment Clearance.

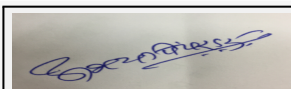
After detailed deliberations, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA for total 101910 Brass of sand subject to the compliance of following points.

**Specific Conditions by SEAC:**

- 1) PP to ensure that lessee shall not use any mechanical means for sand mining like JCB, Suction Pump etc. Sand mining shall strictly be carried out manually.
- 2) PP to carry out 10 m x10 m grid survey of sand ghat before giving possession to the lessee so as to ensure proper monitoring of sand excavation.
- 3) PP to ensure that the excavation of sand shall not be more than 2.1 meter depth as approved by GSDA.
- 4) PP to use closed vehicles for the transportation of sand to avoid air pollution.
- 5) PP to develop and put in place a proper mechanism and methodology to ensure sand mining is carried out strictly as per Sand Mining Policy issued by Government in the Revenue and Forest Department through Govt. resolution dated 03.01.2018
- 6) PP to ensure compliance of various orders passed by Hon'ble National Green Tribunal and Hon'ble High Courts in the Sand Mining cases.

**FINAL RECOMMENDATION**

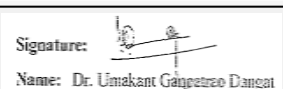
SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions



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## 147th Meeting of State Expert Appraisal Committee (SEAC-1)


**SEAC Meeting number: 147th Meeting Meeting Date February 16, 2018**

**Subject:** Environment Clearance for Common User POL Terminal ( Petroleum Storage ) of IOT Infrastructure & Energy Services Limited at Village Borkhedi Railway District Nagpur

1.Name of Project	Common User POL Terminal ( Petroleum Storage ) of IOT Infrastructure & Energy Services Limited at Village Borkhedi Railway District Nagpur.
2.Type of institution	Private
3.Name of Project Proponent	IOT Infrastructure & Energy Services Limited
4.Name of Consultant	Ultra Tech
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Mouza Borkhedi Railway, Tehsil - Rural Nagpur, District - Nagpur , Survey Nos. 108,112,113,120,121,122, 123,124,125,126/1, 126/2,127 & 130/2
9.Taluka	Nagpur Rural (Gramin)
10.Village	Borkhedi Railway
Correspondence Name:	IOT Infrastructure & Energy Services Limited
Room Number:	Plot Y2
Floor:	NA
Building Name:	Near Nahur railway Station
Road/Street Name:	Ceat Tyre Road
Locality:	Bhandup West
City:	Mumbai-400078
11.Area of the project	Nagpur Metropolitan Area
12.IOD/IOA/Concession/Plan Approval Number	Terminal will be PESO approved <b>IOD/IOA/Concession/Plan Approval Number:</b> PESO Approval Number: A/P/HQ/MH/15/7202(P400199) <b>Approved Built-up Area:</b> 15533
13.Note on the initiated work (If applicable)	Not Applicable, work will be initiated after receipt of Environmental Clearance .
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Collector NOC & approval from Chief Controller of Explosives (Petroleum & Explosives Safety Organization)
15.Total Plot Area (sq. m.)	56.43 Acres
16.Deductions	NA
17.Net Plot area	56.43 Acres
18.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.): 00
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	2790000000


## 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

  
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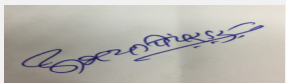
  
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23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 80-90 nos. users including workers and visitors
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	20 m NH-7
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Available
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	HSD	-	38495 KL	38495 KL
2	MS	-	15950 KL	15950 KL
3	ATF	-	15116KL	15116KL
4	FO	-	10026 KL	10026 KL
5	SKO	-	5140 KL	5140 KL
6	LDO	-	5140 KL	5140 KL
7	Ethanol	-	4670 KL	4670 KL
8	Biodiesel	-	1190 KL	1190 KL


### 32.Total Water Requirement




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Dry season:	Source of water	Ground water
	Fresh water (CMD):	30 KL
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	30 KL
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	9358 KL
	Excess treated water	Not applicable
Wet season:	Source of water	Ground Water
	Fresh water (CMD):	30 KL
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	30 KL
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	9358 KL
	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	00	30	30	00	20	20	00	10	10

  
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	8.65 m (SWL)	
	<b>Size and no of RWH tank(s) and Quantity:</b>	04, 36 cum	
	<b>Location of the RWH tank(s):</b>	N-W, W, E & S towards low terrain	
	<b>Quantity of recharge pits:</b>	4 Nos	
	<b>Size of recharge pits :</b>	As per requirement of CGWA	
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 10,00,000/-	
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 25,000/- per annum	
<b>Details of UGT tanks if any :</b>	MS -UG Tank - 50 KL Ethanol - 2 UG tank - 70 KL each HSD - UG Tank - 50 KL SKO - UG Tank - 50 KL Bio Diesel - UG Tank - 70 KL FO - UG Tank - 50 KL ATF-50 KL LDO UG Tank - 50 KL		
<b>35.Storm water drainage</b>			
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The storm water drains are intercepted at strategic locations	
	<b>Quantity of storm water:</b>	1036 cum / 15 minutes	
	<b>Size of SWD:</b>	0.35M X 0.5M X 0.5M	
<b>Sewage and Waste water</b>			
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	25 KLD	
	<b>STP technology:</b>	Package type STP	
	<b>Capacity of STP (CMD):</b>	1 no. 30 KLD	
	<b>Location &amp; area of the STP:</b>	Within plot area	
	<b>Budgetary allocation (Capital cost):</b>	Rs.20 lacs	
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 2.00 lacs per annum	
<b>36.Solid waste Management</b>			
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction waste, debris, Metal Chips (Negligible)	
	<b>Disposal of the construction waste debris:</b>	debris will be used in road makind and metal chips will be sold to authorized vendor	
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	NA	
	<b>Wet waste:</b>	Domestic waste	
	<b>Hazardous waste:</b>	Oily Sludge, Used oil, grease and empty drums, used paint containers and other metallic containers	
	<b>Biomedical waste (If applicable):</b>	NA	
	<b>STP Sludge (Dry sludge):</b>	Yes	
	<b>Others if any:</b>	No	
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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	NA
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	Disposed of through registered vendors approved by MPCB as per Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008 & subsequent amendments.
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Used as manure
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Within plant area
	<b>Area for the storage of waste &amp; other material:</b>	200 sq.m.
	<b>Area for machinery:</b>	NA
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NA
	<b>O &amp; M cost:</b>	1 Lac PA

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		OWS capacity 2 x 150 Cum/Hr			
Amount of treated effluent recycled :		As recovered from OWS			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Oil Water Separator			
Disposal of the ETP sludge		Through MPCB authorised vendor			


### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Oil containing cargo residue, sludge	3.1	MT / A	NA	10	N	Disposed of through registered vendors approved by MPCB as per Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008 & subsequent amendments

  
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2	Discarded containers / Barrels	33.3	Pcs / A	NA	100	N	Disposed of through registered vendors approved by MPCB as per Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008 & subsequent amendments
3	Used/ Spent Oil	5.1	KL / A	NA	1.8	N	Disposed of through registered vendors approved by MPCB as per Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008 & subsequent amendments

### 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	Engine driven fire fighting pumps	HSD	3	10	0.2	100-200
2	DG sets	HSD	3	10	0.2	100-200

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	100 Litres / Day	100 Litres / Day
2	Electricity	NA	2237 KVA	2237 KVA


41.Source of Fuel Fuel for DG set will be brought in Barrels.

42.Mode of Transportation of fuel to site Transported through truck

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	26497Sqm
	<b>No of trees to be cut :</b>	250-300 trees to be cut including shrubs, possibility will be explored to replant these trees either along with compound wall and or avenue plantation. If any tree has to be cut then three plant will be plant for one cut tree.
	<b>Number of trees to be planted :</b>	1600 trees per hector will be planted in consultation with the local forest department.
	<b>List of proposed native trees :</b>	Ashoka, Pipal, Gulmohar, Neem, Acacia, Peltophorum
	<b>Timeline for completion of plantation :</b>	NA


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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	SaracaAsoca	Ashoka	600	Evergreen, Tall
2	Azardiractaindica	Neem	200	Evergreen, Tall

  
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3	Delomix Regia	Gulmohar	200	Deciduous, Large
4	Ficus religiosa	Pipal	100	Deciduous, Semi evergreen
5	Peltophorum	Peltophorum	500	Evergreen, Tall

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

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

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

**47.Energy**

<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	500 KVA approx.
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2237 KW
	During Operation phase (Demand load):	2028 KVA
	Transformer:	1 Nos 1600 KVA & 1 Nos 1000 KVA
	DG set as Power back-up during operation phase:	2 Nos 750 KVA & 1 Nos 600 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	2 Nos

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

Variable frequency drives, LED lights in buildings.


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

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

**50.Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
Loading and unloading operation	NA	VAPOUR RECOVERY UNIT,
Oily Water	NA	Oil Water separator

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

  
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## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution Control	PM10, PM 2.5	2.00

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Vapour recovery Unit	870	7.00
2	Water Pollution	Oil Water Separator	200	2.00
3	Noise Pollution	Green belt, Ear muff/plug	10	1.00
4	Solid waste Management	Out source	10	1.50
5	EMP Plan	Out Source	5	2.00

## 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
HSD	Proposed	Within Premises	38495KL	38495KL	NA	NA	By rail / Tank truck
MS	Proposed	Within Premises	15950KL	15950KL	NA	NA	By rail / Tank truck
ATF	Proposed	Within Premises	15116KL	15116KL	NA	NA	By rail / Tank truck
FO	Proposed	Within Premises	10026KL	10026KL	NA	NA	By rail / Tank truck
SKO	Proposed	Within Premises	5140KL	5140KL	NA	NA	By rail / Tank truck
LDO	Proposed	Within Premises	5140KL	5140KL	NA	NA	By rail / Tank truck
Ethanol	Proposed	Within Premises	4670 KL	4670 KL	NA	NA	By rail / Tank truck
Biodiesel	Proposed	Within Premises	1190 KL	1190 KL	NA	NA	By rail / Tank truck

## 52.Any Other Information

No Information Available


## 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	One & As per NHAI norms
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<b>Parking details:</b>	<b>Number and area of basement:</b>	NA
	<b>Number and area of podia:</b>	NA
	<b>Total Parking area:</b>	4.1 Acers
	<b>Area per car:</b>	NA
	<b>Area per car:</b>	NA
	<b>Number of 2-Wheelers as approved by competent authority:</b>	NA
	<b>Number of 4-Wheelers as approved by competent authority:</b>	NA
	<b>Public Transport:</b>	200 to 220 trucks/day will be operated after commissioning of proposed unit for transportation.
	<b>Width of all Internal roads (m):</b>	6.0 m
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	Category B1 6(b)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	Public Hearing proceedings and Annexures are incorporated in EIA Report.
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-
<b>Brief information of the project by SEAC</b>		

  
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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 the 119th meeting of SEAC-1 held on 15th to 16th January ,2016 wherein ToR was granted.

PP submitted EIA/EMP report for appraisal in the 144th meeting wherein the proposal was deferred till the submission of compliance of following points,

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2. PP to submit copy of contour map of the site.
3. PP to submit plan layout showing 33% green belt.
4. The baseline data shows few parameters are exceeding the limits; PP to submit its reason and proposed mitigation measures.
5. PP to carry out VOC monitoring for baseline data and include the same in the EIA report.
6. PP to propose rain water harvesting and submit its design details along with details of storm water drain.
7. PP to submit details of hazardous waste generation like tank bottom waste etc, its collection, storage and disposal mechanism.
8. PP to provide Sewage Treatment Plant for treatment of domestic sewage and submit its details.
9. PP to provide Lightening arrestor.
10. PP to submit an undertaking for keeping reserve water required for fire fighting all the time on the site.
11. It was observed that PP has not submitted point wise compliance of points raised by SEAC in their 119th meeting as additional ToR. PP to submit point wise compliance of the same.

Now PP submitted the compliance of above points to the committee.

## DECISION OF SEAC


After detailed deliberations, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA.

### Specific Conditions by SEAC:

- 1) PP to obtain permission/NOC from competent Authority for drawing ground water.

## FINAL RECOMMENDATION

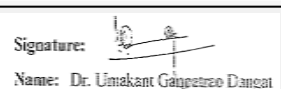
SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions



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

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

## 147th Meeting of State Expert Appraisal Committee (SEAC-1)

**SEAC Meeting number: 147th Meeting Meeting Date February 16, 2018**

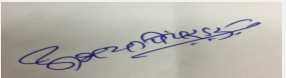
**Subject:** Environment Clearance for Proposed Expansion from 15 MW Co-gen Power Plant to 20 MW Co-gen Power Plant by addition of 5 MW.

1.Name of Project	Manas Agro Industries & Infrastructure Limited-Unit-3
2.Type of institution	Private
3.Name of Project Proponent	Manas Agro Industries & Infrastructure Limited-Unit-3
4.Name of Consultant	Pollution & Ecology Control Services, Nagpur
5.Type of project	Industrial
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	Not Applicable
8.Location of the project	109, 110, 50, 51, 52.
9.Taluka	Seloo
10.Village	Jamni
Correspondence Name:	Manas Agro Industries & Infrastructure Limited-Unit-3
Room Number:	--
Floor:	5th Floor
Building Name:	Gupta Tower
Road/Street Name:	Civil Lines
Locality:	Civil Lines
City:	Nagpur
11.Area of the project	Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 7000
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.)	574732.741
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 7000
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	220000000

### 22.Number of buildings & its configuration


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

23.Number of tenants and shops	Not applicable
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24. Number of expected residents / users	Not applicable
25. Tenant density per hectare	Not applicable
26. Height of the building(s)	
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	15 m. Tar road is existing attached to 20 m. SH.
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	Yes, Sugar Plant of 3000 TCD and 15 MW Co-gen Power Plant are in operation.
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	Electricity	15 MW	5 MW	20 MW


### 32. Total Water Requirement

Dry season:	Source of water	Madan Unnai Dam
	Fresh water (CMD):	2200
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD):	2206
	Fire fighting - Underground water tank (CMD):	5
	Fire fighting - Overhead water tank (CMD):	Not applicable
	Excess treated water	Not applicable

  
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<b>Wet season:</b>	<b>Source of water</b>	Madan Unnai Dam
	<b>Fresh water (CMD):</b>	2200
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	5
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	2206
	<b>Fire fighting - Underground water tank(CMD):</b>	5
	<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	4.5	1.5	6.0	1.0	0.5	1.5	3.5	1.0	4.5
Industrial Process	1650	550	2200	990	330	1320	660	220	880

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Will be elaborated in final EIA report.
	<b>Size and no of RWH tank(s) and Quantity:</b>	Will be elaborated in final EIA report.
	<b>Location of the RWH tank(s):</b>	Will be elaborated in final EIA report.
	<b>Quantity of recharge pits:</b>	Will be elaborated in final EIA report.
	<b>Size of recharge pits :</b>	Will be elaborated in final EIA report.
	<b>Budgetary allocation (Capital cost) :</b>	An underground tank will be constructed if required.
	<b>Budgetary allocation (O &amp; M cost) :</b>	An underground tank will be constructed if required.
	<b>Details of UGT tanks if any :</b>	An underground tank will be constructed if required.

  
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<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Storm water will be constructed around the plant area
	<b>Quantity of storm water:</b>	Will be elaborated in final EIA report.
	<b>Size of SWD:</b>	Will be elaborated in final EIA report.

<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	8.0
	<b>STP technology:</b>	STP shall be provided
	<b>Capacity of STP (CMD):</b>	1 No. and 10 KLD capacity
	<b>Location &amp; area of the STP:</b>	With in Plant Premises
	<b>Budgetary allocation (Capital cost):</b>	Rs. 20 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs.2 Lacs per annum

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction Waste Derbis
	<b>Disposal of the construction waste debris:</b>	Will be utilized in making of internal road

<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Fly Ash
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Yes
	<b>Others if any:</b>	NA


<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Fly Ash will be given to Brick manufacturers.
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Will be used as manure
	<b>Others if any:</b>	NA

<b>Area requirement:</b>	<b>Location(s):</b>	With in Project premises
	<b>Area for the storage of waste &amp; other material:</b>	1000
	<b>Area for machinery:</b>	NA

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


### 37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		880			
Capacity of the ETP:		1000			
Amount of treated effluent recycled :		880			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Settling tank will be constructed for treatment of waste water			
Disposal of the ETP sludge		NA			

### 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	Boiler	Bagass	1	60	1.5	NA

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagass	676 TPD	676 TPD	2704 TPD


41.Source of Fuel Sugar Plant, Market

42.Mode of Transportation of fuel to site By Loader

<b>43.Green Belt Development</b>	Total RG area :	1400 Sq. m.
	No of trees to be cut :	NA
	Number of trees to be planted :	500
	List of proposed native trees :	Ashoka, Neem, Nandruk, Palash, Gulmohar, Mango
	Timeline for completion of plantation :	NA

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca Asoca	Ashoka	100	Shady tree , deciduous
2	Azardirachta indica	Neem	100	Large tree, good for roadside plantation.
3	Butea monosperma	Palash	100	Medium sized deciduous tree. beautiful flowers tree
4	Delonix regia	Gulmohar	100	Deciduous, large tree with beautiful flowers
5	Mangifera indica	Mango	100	large tree, long-lived tree.


  
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45.Total quantity of plants on ground			
<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	NA	NA	NA
<b>47.Energy</b>			
<b>Power requirement:</b>	Source of power supply :	Captive Source and MSEDCL	
	During Construction Phase: (Demand Load)	100 KVA	
	DG set as Power back-up during construction phase	1 No. 50 KVA	
	During Operation phase (Connected load):	1.5 MW	
	During Operation phase (Demand load):	1.35 MW	
	Transformer:	Yes	
	DG set as Power back-up during operation phase:	50 KVA	
	Fuel used:	Diesel	
	Details of high tension line passing through the plot if any:	NA	
<b>48.Energy saving by non-conventional method:</b>			
Solar Light will be installed for internal roads in plant area.			
<b>49.Detail calculations &amp; % of saving:</b>			
Serial Number	Energy Conservation Measures	Saving %	
1	NA	NA	
<b>50.Details of pollution control Systems</b>			
Source	Existing pollution control system	Proposed to be installed	
Boiler	ESP	Existing ESP will be used.	
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.500000/-	
	O & M cost:	Rs.10000/-	
<b>51.Environmental Management plan Budgetary Allocation</b>			
<b>a) Construction phase (with Break-up):</b>			
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution	Particulate Matter	Rs.1.5 Lacs
<b>b) Operation Phase (with Break-up):</b>			

  
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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	ESP, Water Sprinkler System, Stack	Rs.100 Lacs	Rs. 8 Lacs
2	Water Pollution Control	STP & ETP	Rs. 25 Lacs and Rs. 20 Lacs	Rs.2 Lacs and Rs. 1 Lac
3	Solid Waste Management	Fly ash	Rs.4.0 Lacs	Rs. 2.0 Lacs
4	Greenbelt	Plantation	Rs.1.0 Lacs	Rs. 0.3 Lacs
5	Environmental Monitoring	Air quality, Water and Wastewater Quality, Noise levels, Soil quality	--	Rs. 5 Lacs

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


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

### 52.Any Other Information

No Information Available

### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	Number and area of basement:	NA
	Number and area of podia:	500 Sq.m.
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m.
	CRZ/ RRZ clearance obtain, if any:	NA

  
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	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	NA
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	Application For ToR
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

### Brief information of the project by SEAC

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.

### DECISION OF SEAC

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

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

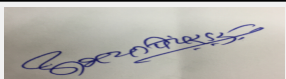
PP to carry out Public Hearing as per EIA Notification, 2006 and submit the report.

#### Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit an undertaking for not violating any requirement of EIA Notification ,2006 amended time to time.
- 3) PP to submit lay out plan showing internal roads having six meter width and nine meters turning radius, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc
- 4) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 5) PP to submit detailed bagess balance calculation indicating quantity generated, used for power plant and quantity remains as excess and its disposal.
- 6) PP to submit detailed water balance calculations for the proposed project.
- 7) PP to submit agreement signed with the competent authority for lifting of water from Madan Unnai Dam
- 8) PP to include a technical note on proposed expansion in the EIA report.
- 9) PP to carry out socioeconomic survey report in the study area and submit need base CSR activity plan along with funds availability and schedule for its implementation. PP to maintain separate accounts for CSR and EMP funds.
- 10) PP to submit chemical analysis report of the fly ash and press mud and its suitability to use as manure.
- 11) PP to submit technical adequacy report on the proposed modification of ESP.


### FINAL RECOMMENDATION

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

  
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## 147th Meeting of State Expert Appraisal Committee (SEAC-1)

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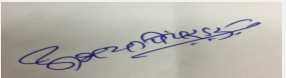
**Subject:** Environment Clearance for Proposed 20 MW Co-gen power plant

1.Name of Project	Manas Agro Industries & Infrastructure Limited Unit- 4
2.Type of institution	Private
3.Name of Project Proponent	Manas Agro Industries & Infrastructure Limited Unit- 4
4.Name of Consultant	Pollution & Ecological Control Services, Nagpur
5.Type of project	Industry
6.New project/expansion in existing project/modernization/diversification in existing project	New Preoject
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Devhada
9.Taluka	Mohadi
10.Village	Devhada
Correspondence Name:	Manas Agro Industries & Infrastructure Limited
Room Number:	-
Floor:	5th Floor
Building Name:	Gupta Tower
Road/Street Name:	Civil Lines
Locality:	Civil Lines
City:	Nagpur
11.Area of the project	Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Not Applicable
	<b>Approved Built-up Area:</b> 7000
13.Note on the initiated work (If applicable)	Not Allicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Allicable
15.Total Plot Area (sq. m.)	645400 Sqm
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 7000
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	960000000

### 22.Number of buildings & its configuration


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

23.Number of tenants and shops	Not applicable
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24.Number of expected residents / users	120
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	15 m Tar Road is existing attached to 20 m SH
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	8 MTR
29.Existing structure (s) if any	Sugar Plant of 3500 TCD
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	ELECTRICITY	0	20 MW	20 MW


### 32.Total Water Requirement

Dry season:	Source of water	Vainganga River
	Fresh water (CMD):	2200
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD):	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

  
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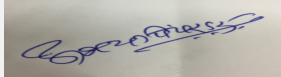
<b>Wet season:</b>	<b>Source of water</b>	Vainganga River
	<b>Fresh water (CMD):</b>	2200
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	5
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not applicable
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable

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

**33.Details of Total water consumed**


Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	00	6.0	6.0	00	1.5	1.5	00	4.5	4.5
Industrial Process	00	2200	2200	00	1320	1320	00	880	880

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Will be elaborated in Final EIA Report
	<b>Size and no of RWH tank(s) and Quantity:</b>	Will be elaborated in Final EIA Report
	<b>Location of the RWH tank(s):</b>	Will be elaborated in Final EIA Report
	<b>Quantity of recharge pits:</b>	Will be elaborated in Final EIA Report
	<b>Size of recharge pits :</b>	Will be elaborated in Final EIA Report
	<b>Budgetary allocation (Capital cost) :</b>	Will be elaborated in Final EIA Report
	<b>Budgetary allocation (O &amp; M cost) :</b>	Will be elaborated in Final EIA Report
	<b>Details of UGT tanks if any :</b>	An underground tank will be constructed if required

  
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<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Storm water will be constructed around the plant area
	<b>Quantity of storm water:</b>	Will be elaborated in final EIA report.
	<b>Size of SWD:</b>	Will be elaborated in final EIA report.

<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	8.0
	<b>STP technology:</b>	Package type STP shall be provided
	<b>Capacity of STP (CMD):</b>	1 No. and 10 KLD capacity
	<b>Location &amp; area of the STP:</b>	With in Plant Premises
	<b>Budgetary allocation (Capital cost):</b>	Rs. 20 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs.2 Lacs per annum

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction Waste Derbis
	<b>Disposal of the construction waste debris:</b>	Will be utilized in making of internal road

<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Fly Ash
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Yes
	<b>Others if any:</b>	NA


<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Fly Ash will be given to Brick manufacturers
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Will be used as manure
	<b>Others if any:</b>	Na

<b>Area requirement:</b>	<b>Location(s):</b>	With in project premises
	<b>Area for the storage of waste &amp; other material:</b>	1000
	<b>Area for machinery:</b>	NA

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


### 37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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1	Na	NA	NA	NA	NA
Amount of effluent generation (CMD):		880			
Capacity of the ETP:		1000			
Amount of treated effluent recycled :		880			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Settling tank will be constructed for treatment of waste water			
Disposal of the ETP sludge		NA			

### 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	Boiler	Bagasse	1	60	1.5	NA

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	None	2700	2700


41.Source of Fuel Sugar Plant, Market

42.Mode of Transportation of fuel to site By Loader

<b>43.Green Belt Development</b>	Total RG area :	3000 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	500
	List of proposed native trees :	Ashoka, Neem, Palash, Gulmohar, Mango
	Timeline for completion of plantation :	NA


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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca Asoca	Ashoka	100	Shady tree , deciduous
2	Azardirachta Indica	Neem	100	Large tree, good for roadside plantation.
3	Butea monosperma	Palash	100	Medium sized deciduous tree. beautiful flowers tree
4	Delonix regia	Gulmohar	100	Deciduous, large tree with beautiful flowers
5	Mangnifera Indica	Mango	100	large tree, long-lived tree.

  
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45.Total quantity of plants on ground

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

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

**47.Energy**

<b>Power requirement:</b>	Source of power supply :	Captive Source and MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	1 No. 50 KVA
	During Operation phase (Connected load):	1.5 MW
	During Operation phase (Demand load):	1.35 MW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	50 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

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

Solar Light will be installed for internal roads in plant area.

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

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

**50.Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
Boiler	None	ESP

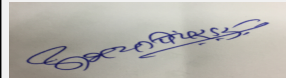

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	Capital cost:	Rs.500000/- for Energy Conservation measures.
	O & M cost:	Rs.10000/- O & M for Energy Conservation measures.

**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	Particulate Matter	Rs.1.5 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	Air Pollution Control	ESP, Water Sprinkler System, Stack	Rs.100 Lacs	Rs. 8 Lacs
2	Water Pollution Control	STP & ETP	Rs. 25 Lacs and Rs. 20 Lacs	Rs.2 Lacs and Rs. 1 Lac
3	Solid Waste Management	Fly ash	Rs.4.0 Lacs	Rs. 2.0 Lacs
4	Greenbelt	Plantation	Rs.1.0 Lacs	Rs. 0.3 Lacs
5	Environmental Monitoring	Air quality, Water and Wastewater Quality, Noise levels, Soil quality	--	Rs. 5 Lacs

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

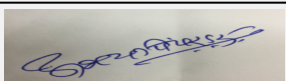
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

### 52.Any Other Information

No Information Available

### 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	500
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 M
	CRZ/ RRZ clearance obtain, if any:	NA

  
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	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	NA
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	Application for ToR
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

### Brief information of the project by SEAC

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.

### DECISION OF SEAC

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

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


PP to carry out Public Hearing as per EIA Notification, 2006 and submit the report.

#### Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit an undertaking for not violating any requirement of EIA Notification ,2006 amended time to time.
- 3) PP to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc
- 4) PP to carry out HAZOP and QRA and submit report.
- 5) PP to submit detailed bagass balance calculation indicating quantity generated, used for power plant and quantity remains as excess and its disposal.
- 6) PP to submit detailed water balance calculations for the proposed project.
- 7) PP to submit agreement signed with the competent authority for lifting of water from Wainganga River
- 8) PP to carry out socioeconomic survey in the study area and submit need base CSR activity plan along with funds availability and schedule for its implementation. PP to maintain separate accounts for CSR and EMP funds.
- 9) PP to submit chemical analysis report of the fly ash and press mud to ensure its use as manure.


### FINAL RECOMMENDATION

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

  
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