

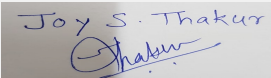
## Agenda for 76th Meeting of SEAC-3 (Day-1)

**SEAC Meeting number: 76 Meeting Date November 15, 2018**

**Subject:** Environment Clearance for Proposed Commercial Project "Avishkar Arista" at S. No.28/3/1, Damodar Nagar , Old Nagar-Mundhwa Road, Off Nagar Road ,Tukaram Nagar ,Kharadi 14. ,Kharadi, Pune By M/s. Avishkar Arista Developers LLP

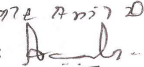
**Is a Violation Case:** No

<b>1.Name of Project</b>	"Avishkar Arista" by Avishkar Arista Developers LLP
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Mr. Mohnish Advani
<b>4.Name of Consultant</b>	VK:e Environmental LLP , Pune
<b>5.Type of project</b>	Commercial Project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	Not applicable
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	S.No.28/3/1, Damodar Nagar , Old Nagar-Mundhwa Road, Off Nagar Road ,Tukaram Nagar ,Kharadi ,Pune. 411014
<b>9.Taluka</b>	Haveli
<b>10.Village</b>	Kharadi
<b>Correspondence Name:</b>	Mr. Mohnish Advani
<b>Room Number:</b>	Office no. T-7
<b>Floor:</b>	-
<b>Building Name:</b>	Jeejeebhoy Towers
<b>Road/Street Name:</b>	S. No. 157A,
<b>Locality:</b>	Ghorpadi Gaon
<b>City:</b>	Pune
<b>11.Area of the project</b>	PMC
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	In process
	<b>IOD/IOA/Concession/Plan Approval Number:</b> In process
	<b>Approved Built-up Area:</b> 00
<b>13.Note on the initiated work (If applicable)</b>	NA
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	NA
<b>15.Total Plot Area (sq. m.)</b>	8094.50 Sq.m
<b>16.Deductions</b>	DP road widening- 522.07, Area for 9 m wide road- 280.27, Gross area of plot- 7292.16, Amenity Space- 1094
<b>17.Net Plot area</b>	6198.34 Sq.m
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> 15782.14
	<b>b) Non FSI area (sq. m.):</b> 14759.47
	<b>c) Total BUA area (sq. m.):</b> 30541.61
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b> 00
	<b>Approved Non FSI area (sq. m.):</b> 00
	<b>Date of Approval:</b> 28-08-2018
<b>19.Total ground coverage (m2)</b>	2614.59
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	42.2 %
<b>21.Estimated cost of the project</b>	800000000.00

  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 1 of 50**

**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

## 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Commercial Bldg.	2 B + LG+UP+2 floor+2 Parking floor+ 6 floors	41.7
<b>23.Number of tenants and shops</b>	Shops- 100 no. Offices- 171 no. Restaurant- 7 no.		
<b>24.Number of expected residents / users</b>	Commercial- Shops- Fixed- 93 no. Floating- 843 no. Offices- Fixed-868 no. Visitors- 87 no. Restaurant- Fixed- 50 no. Floating- 157 no. Fixed- 1011 Floating - 1087 Total- 2098		
<b>25.Tenant density per hectare</b>	NA		
<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>	Width of road from nearest fire station is 30 m wide DP road.		
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	For easy access of fire tender 9m turning radius will be provided.		
<b>29.Existing structure (s) if any</b>	Yes. Old structures present on site		
<b>30.Details of the demolition with disposal (If applicable)</b>	Old structure to be demolished.		

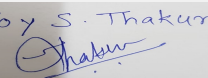
## 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

## 32.Total Water Requirement

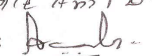
 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 2 of 50</b>	<b>Name: K. Anil Kale</b>  <b>Shri. Anil Kale (Chairman SEAC-III)</b>
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Dry season:	Source of water	PMC							
	Fresh water (CMD):	34							
	Recycled water - Flushing (CMD):	37							
	Recycled water - Gardening (CMD):	7							
	Swimming pool make up (Cum):	0							
	Total Water Requirement (CMD) :	78							
	Fire fighting - Underground water tank(CMD):	200							
	Fire fighting - Overhead water tank(CMD):	20							
	Excess treated water	11							
Wet season:	Source of water	PMC							
	Fresh water (CMD):	34							
	Recycled water - Flushing (CMD):	37							
	Recycled water - Gardening (CMD):	0							
	Swimming pool make up (Cum):	0							
	Total Water Requirement (CMD) :	71							
	Fire fighting - Underground water tank(CMD):	200							
	Fire fighting - Overhead water tank(CMD):	20							
	Excess treated water	18							
Details of Swimming pool (If any)	NA								
<b>33.Details of Total water consumed</b>									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

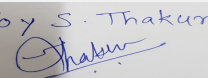
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 3 of 50**

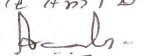
**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Pre monsoon : 20-28 m bgl , Post monsoon : 5-6 m bgl
	<b>Size and no of RWH tank(s) and Quantity:</b>	NA
	<b>Location of the RWH tank(s):</b>	NA
	<b>Quantity of recharge pits:</b>	3 No. of recharge pits
	<b>Size of recharge pits :</b>	2 m x 2 m x 3 m
	<b>Budgetary allocation (Capital cost) :</b>	3,60,000 /-
	<b>Budgetary allocation (O &amp; M cost) :</b>	60,000/-
	<b>Details of UGT tanks if any :</b>	Raw water storage= 34 KLD Treated water storage= 34 KLD Fire fighting water storage = 200 KLD
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The storm water drainage will be designed according to contours
	<b>Quantity of storm water:</b>	169 m <sup>3</sup> /hr
	<b>Size of SWD:</b>	300 mm
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	64
	<b>STP technology:</b>	MBBR Technology
	<b>Capacity of STP (CMD):</b>	64
	<b>Location &amp; area of the STP:</b>	On ground, Area is 64 Sq.mtr
	<b>Budgetary allocation (Capital cost):</b>	15,00,000/-
	<b>Budgetary allocation (O &amp; M cost):</b>	3,00,000/-
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	20 kg/day (Dry waste- 8 kg/day, Wet waste-12 kg/day)
	<b>Disposal of the construction waste debris:</b>	The maximum construction waste will be used within the site for leveling purpose and base course preparation of internal approach roads, surplus shall be led to scrap dealers for recycling.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	325 kg/day
	<b>Wet waste:</b>	251 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	7 kg/ day
	<b>Others if any:</b>	E-waste- 3 kg/day

Joy S. Thakur  
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 4 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Handed over to authorized recycler for further handling & disposal purpose
	<b>Wet waste:</b>	Wet waste will be treated in onsite organic waste converter machine
	<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>	Handed over to authorized recyclers for further handling & disposal purpose
<b>Area requirement:</b>	<b>Location(s):</b>	On ground
	<b>Area for the storage of waste &amp; other material:</b>	8 sq.m
	<b>Area for machinery:</b>	28 sq.m
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	12,75,000/-
	<b>O &amp; M cost:</b>	2,86,668 /-

### 37. Effluent Characteristics

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

### 38. Hazardous Waste Details

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

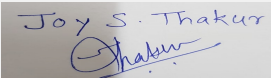
### 39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set	102.7ltr/hr/dg@ 75% loading	3	30	0.254	496

### 40. Details of Fuel to be used

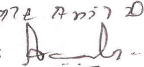
Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	Not applicable	Not applicable

41. Source of Fuel: Nearest Diesel Pump Station

  
**Joy S. Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 5 of 50**

**Name: K. Anil Kale**  
**Signature: **  
**Shri. Anil Kale (Chairman SEAC-III)**

42.Mode of Transportation of fuel to site		By Road		
<b>43.Green Belt Development</b>	<b>Total RG area :</b>	R.G. Area- 729.37 Sq.mt.		
	<b>No of trees to be cut :</b>	00		
	<b>Number of trees to be planted :</b>	No. of trees to be planted- 57 no.		
	<b>List of proposed native trees :</b>	Refer Below list:		
	<b>Timeline for completion of plantation :</b>	Till operation phase		
<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	Cassia fistula	Bahava	8	Auspicious, Attracts Birds/Bees/Butterflies, Hanging or weeping growth
2	Lagerstromia speciosa	Taman	8	Creates Shade, Attracts Birds/ Butterflies/Bees, Good for Screening
3	Saraca Asoca	Sita Ashoka	10	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Deep-Green, Shiny foliage
4	Plumeria alba	Chafa	5	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Quick growing, use for pooja
5	Millingtonia hortensis	Buch	12	Fragrant flowers or leaves, Plant for Pooja, Evergreen tree
6	Syzygium cumini	Jamun	6	Fruit plant, Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees
7	Caryota Urens	Fish Tail Palm	8	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Evergreen tree
<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>				

 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 6 of 50</b>	<b>Name: K. Anil Kale</b>  <b>Signature: Shri. Anil Kale (Chairman SEAC-III)</b>
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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	20.21 KVA
	<b>DG set as Power back-up during construction phase</b>	1 X 25 KVA
	<b>During Operation phase (Connected load):</b>	2097.72 KW
	<b>During Operation phase (Demand load):</b>	1409.65 KW
	<b>Transformer:</b>	3 nos. X 630 KVA & 1 no. X 315 KVA
	<b>DG set as Power back-up during operation phase:</b>	3 X 625 KVA
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	NA

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

Solar PV Panels  
 Use of synchronization and variable speed drives  
 Use of LED fittings and copper ballasts  
 Use of BEE certified motors  
 Total Energy Saving 2.4 % Energy saving due to Solar- 1% of connected load

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

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels, Use of synchronization and variable speed drives, Use of LED fittings and copper ballasts, Use of BEE certified motors	1% of connected load

#### 50. Details of pollution control Systems

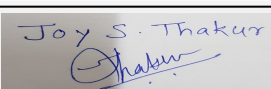
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	16,00,000/-
	<b>O &amp; M cost:</b>	48,000/- per year

### 51. Environmental Management plan Budgetary Allocation

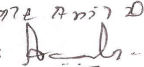
#### a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control - dust suppression measures, barricading and top soil preservation	6.8
2	Land	Labour Camp toilets & sanitation	4.8

  
**Joy S. Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 7 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

3	Health and Safety	Personal Protective Equipment	4.0
4	Health and Safety	Health checkup & Disinfection	0.51
5	Environment Management	Environment management cell	1.75
6	Environmental Monitoring	Environmental Monitoring	1.85

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP-MBBR Technology	15	3
2	Solid Waste Management	OWC	12.75	2.86
3	Landscaping	Development and Maintenance	14	0.91
4	Rain Water Harvesting	2 Recharge pits	3.6	0.6
5	Energy Saving	Solar PV panels	16	0.48
6	Environmental Monitoring	-	-	1.8

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

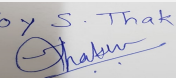
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**52.Any Other Information**

No Information Available

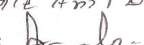
**53.Traffic Management**

<b>Nos. of the junction to the main road &amp; design of confluence:</b>	Proposed site is located at Kharadi. The road network within the site has been designed to cater to the traffic loads of the project.
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*Joy S. Thakur*  
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 8 of 50**

**Name:** *Kale Anil D.*  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**



Parking details:	Number and area of basement:	2 no. of Basement Area is- 5229.18 sq. mtr
	Number and area of podia:	NA
	Total Parking area:	7274.2 sq.m
	Area per car:	30 sq.m
	Area per car:	30 sq.m
	Number of 2-Wheelers as approved by competent authority:	1192
	Number of 4-Wheelers as approved by competent authority:	354
	Public Transport:	NA
	Width of all Internal roads (m):	6 m wide internal road and 9 m Turning radius will be provided .
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) Building & Construction Project
	Court cases pending if any	NA
	Other Relevant Informations	NO
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

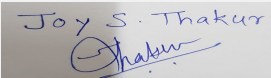
## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorisred in brief information of Project as below.

### Brief information of the project by SEAC

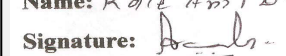
PP submitted their application for prior EC for total plot area of 8094.50 m<sup>2</sup>, BUA of 30541.61 m<sup>2</sup> and FSI area of 15782.14 m<sup>2</sup> and Non FSI area of 14759.47 m<sup>2</sup>.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a)B2.

  
Joy S.Thakur (Secretary  
SEAC-III)

**SEAC Meeting No: 76 Meeting Date: November  
15, 2018**

Page 9 of  
50

Name: K 072 Anil D  
Signature:   
Shri. Anil Kale (Chairman  
SEAC-III)

## DECISION OF SEAC

SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the following conditions:

### Specific Conditions by SEAC:

- 1) PP to explore possibility to relocate the DG set other than basement else PP to submit plan approved by planning authority allowing the same.
- 2) PP to submit tree cutting NOC.

## FINAL RECOMMENDATION

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

SEAC-AGENDA-00000000165

 Joy S.Thakur (Secretary SEAC-III)	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 10 of 50</b>	<b>Name: K 072 Anil D.</b> <b>Signature:</b>  <b>Shri. Anil Kale (Chairman SEAC-III)</b>
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## Agenda for 76th Meeting of SEAC-3 (Day-1)

**SEAC Meeting number: 76 Meeting Date November 15, 2018**

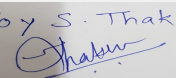
**Subject:** Environment Clearance for 69 Kharadi IT Project

**Is a Violation Case:** No

<b>1.Name of Project</b>	69 Kharadi IT Project
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Mr. Anand Sanghvi
<b>4.Name of Consultant</b>	MITCON Consultancy & Engineering Services Ltd.
<b>5.Type of project</b>	Others: IT Project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	NEW Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	Survey No 69 /4 & 69 /5
<b>9.Taluka</b>	Haveli
<b>10.Village</b>	Kharadi
<b>Correspondence Name:</b>	Mr. Anand Sanghvi
<b>Room Number:</b>	NA
<b>Floor:</b>	4th Floor
<b>Building Name:</b>	Tech Park One, Tower 'E'
<b>Road/Street Name:</b>	Off Airport Road
<b>Locality:</b>	Yerwada
<b>City:</b>	Pune
<b>11.Area of the project</b>	Pune Municipal Corporation
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	IOD
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Applied
	<b>Approved Built-up Area:</b> 51217
<b>13.Note on the initiated work (If applicable)</b>	Not Applicable
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	LOI to be applied
<b>15.Total Plot Area (sq. m.)</b>	16362.00 Sq. m.
<b>16.Deductions</b>	8598 Sq.m.
<b>17.Net Plot area</b>	7764 Sq.m.
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> 29608
	<b>b) Non FSI area (sq. m.):</b> 21609
	<b>c) Total BUA area (sq. m.):</b> 51217
<b>18 (b).Approved Built up area as per DCR</b>	<b>Approved FSI area (sq. m.):</b> 29608
	<b>Approved Non FSI area (sq. m.):</b> 21609
	<b>Date of Approval:</b> 01-01-1900
<b>19.Total ground coverage (m2)</b>	1552.80
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	20 %
<b>21.Estimated cost of the project</b>	1100000000

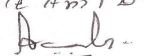
### 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 11 of 50**

**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

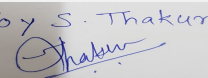
1	One	G+9	41.70
<b>23.Number of tenants and shops</b>	Number of Offices- 18		
<b>24.Number of expected residents / users</b>	Staff - 3932 , Visitors- 175 , Total - 4107		
<b>25.Tenant density per hectare</b>	NA		
<b>26.Height of the building(s)</b>			
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	30 Mt		
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	9 M		
<b>29.Existing structure (s) if any</b>	NA		
<b>30.Details of the demolition with disposal (If applicable)</b>	NA		

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

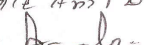
### 32.Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	PMC/Tanker
	<b>Fresh water (CMD):</b>	133.5
	<b>Recycled water - Flushing (CMD):</b>	97.5
	<b>Recycled water - Gardening (CMD):</b>	7.0
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	238.0
	<b>Fire fighting - Underground water tank(CMD):</b>	200
	<b>Fire fighting - Overhead water tank(CMD):</b>	40.0
	<b>Excess treated water</b>	110.5

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**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 12 of 50**

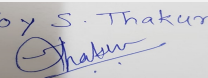
**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

<b>Wet season:</b>	<b>Source of water</b>	PMC/Tanker
	<b>Fresh water (CMD):</b>	133.5
	<b>Recycled water - Flushing (CMD):</b>	97.5
	<b>Recycled water - Gardening (CMD):</b>	0.0
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	231.0
	<b>Fire fighting - Underground water tank(CMD):</b>	200
	<b>Fire fighting - Overhead water tank(CMD):</b>	40.0
	<b>Excess treated water</b>	117.5
<b>Details of Swimming pool (If any)</b>	NA	

### 33.Details of Total water consumed

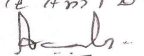
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Water Requirement									
Domestic	0	238	238	0	11.9	11.9	0	226.1	226.1
Gardening	0	7	7	0	7	7	0	0	0
Fresh water requirement	0	133.5	133.5	0	6.7	6.7	0	126.8	126.8

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	As per Report
	<b>Size and no of RWH tank(s) and Quantity:</b>	3 nos each 2.5m x 2.5m.
	<b>Location of the RWH tank(s):</b>	N.A.
	<b>Quantity of recharge pits:</b>	3 Nos
	<b>Size of recharge pits :</b>	2.5 x 2.5 x 2.25 m
	<b>Budgetary allocation (Capital cost) :</b>	1.5 lac/Annum
	<b>Budgetary allocation (O &amp; M cost) :</b>	0.15 lac/Annum
	<b>Details of UGT tanks if any :</b>	NA

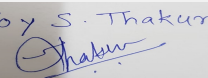
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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 13 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	NA
	<b>Quantity of storm water:</b>	8.72 Cum/Min
	<b>Size of SWD:</b>	450mm dia. Pipe
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	219 KLD
	<b>STP technology:</b>	MBBR
	<b>Capacity of STP (CMD):</b>	220 CMD
	<b>Location &amp; area of the STP:</b>	NA
	<b>Budgetary allocation (Capital cost):</b>	90.0 lac (Including Civil)
	<b>Budgetary allocation (O &amp; M cost):</b>	14 lac/Annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Excavation in soft strata- 16767 Cum Excavation in hard rock strata-41222 Cum
	<b>Disposal of the construction waste debris:</b>	Will be used on site for levelling & back filing
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	431 Kg / Day
	<b>Wet waste:</b>	185 Kg/ Day
	<b>Hazardous waste:</b>	Spent oil: 1000 lit/annum
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	30 Kg/d
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Will be handed over to authorized recycler/vendor- SWaCH
	<b>Wet waste:</b>	Wet waste will be treated in OWC & manure will be used for landscaping & gardening
	<b>Hazardous waste:</b>	Will be handed over to authorized vendor
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Used as manure for landscape development
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Ground
	<b>Area for the storage of waste &amp; other material:</b>	100 Sq Mt
	<b>Area for machinery:</b>	3 M x 4 M for Composting Machine
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	8 Lac
	<b>O &amp; M cost:</b>	0.50 Lac/ Annum
<b>37.Effluent Charecterestics</b>		

Joy S. Thakur  
  
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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 14 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

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

### 38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	Litre/annum	0	1000	1000	Will be handed to MPCB authorized vendor

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set- 1250 KVA	HSD 165 ltrs/ Day	3	15	0.4	562 Deg.C.

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	4500 Lts/ Month	4500 Lts/ Month

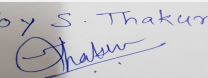
41.Source of Fuel Authorized Vendor

42.Mode of Transportation of fuel to site By Road

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	776.0 Sq. m.
	<b>No of trees to be cut :</b>	0
	<b>Number of trees to be planted :</b>	135
	<b>List of proposed native trees :</b>	Attached
	<b>Timeline for completion of plantation :</b>	At the time of completion of project

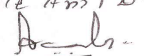
### 44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	MIMUSOPS ELENGI	BAKUL	86	ORNAMENTAL,EVERGREEN,MECICINAL USE.
2	BARINGTONIA ACUTANGULA	NEVAR	25	EVERGREEN , WOOD FOR CONSTRUCTION

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 Joy S.Thakur (Secretary SEAC-III)

SEAC Meeting No: 76 Meeting Date: November 15, 2018

Page 15 of 50

Name: K. Anil Kale  
  
 Shri. Anil Kale (Chairman SEAC-III)

3	STERCULIA FOETIDA	JUNGLI BADAM	24	ORNAMENTAL,DECIDUOUS,MEDICIAL USES
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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	LAWN	-	882.013
2	MURRAYA PANICULATA	300mm C/C	474.976
3	WADELIA	-	592.790

**47.Energy**

<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	250 kW
	<b>DG set as Power back-up during construction phase</b>	320 kVA
	<b>During Operation phase (Connected load):</b>	4777 kW
	<b>During Operation phase (Demand load):</b>	3017 kVA
	<b>Transformer:</b>	2 X 1600 kVA
	<b>DG set as Power back-up during operation phase:</b>	3 x 1250 kVA
	<b>Fuel used:</b>	HSD
<b>Details of high tension line passing through the plot if any:</b>	NA	

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

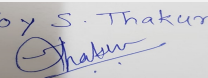
Conventional T8 FTL with Magnetic Ballasts (2x36W) . VS. Energy Efficient T5 FTL with HF Electronic Ballasts (2x28W)= 20 %  
 Conventional Transformer against Low loss Transformer= 20 %

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

Serial Number	Energy Conservation Measures	Saving %
1	Conventional T8 FTL with Magnetic Ballasts (2x36W) . VS. Energy Efficient T5 FTL with HF Electronic Ballasts (2x28W), Conventional Transformer against Low loss Transformer	40 %

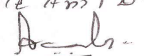
**50.Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	220 CMD
OWC	Not applicable	Model 60 (200-300 Kg/ day)
DG Set	Not applicable	3X1250 KVA

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 Joy S.Thakur (Secretary SEAC-III)

SEAC Meeting No: 76 Meeting Date: November 15, 2018

Page 16 of 50

Name: K. Anil Kale  
  
 Shri. Anil Kale (Chairman SEAC-III)



<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	30.0 lakhs
	<b>O &amp; M cost:</b>	0.5 lakhs/annum

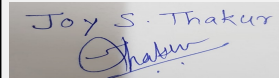
## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environmental monitoring	PM10, PM2.5, SO2, NOx, CO, Equivalent noise level, Analysis of water for physical, chemical, biological parameters.	5.44
2	Air Environment	Water For Dust Suppression	6.00
3	Air Environment	Air & Noise monitoring	4.84
4	Water Environment	Tanker water for construction	0.96
5	Water Environment	Water monitoring	0.04
6	Land Environment	Site Sanitation	7.56
7	Land Environment	Gardening	4.00
8	Socio- Economic Environment	Disinfection- Pest Control	7.20
9	Socio- Economic Environment	First Aid Facilities	0.18
10	Socio- Economic Environment	Health Check Up	3.30
11	Socio- Economic Environment	Crèche for children	4.2
12	Socio- Economic Environment	Personal protective equipment	2.44

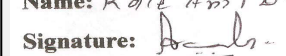
### b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	0	12.74
2	Water	RWH	1 lac/Annum	0.25 lac
3	Water	STP	90.0 lac (Including Civil)	5.0 lac
4	Energy	Solar PV Cells	30	0.15
5	Land Environment	Gardening	20	2.0
6	Solid waste	Solid waste management	5.22 Lac	0.50 Lac/ Annum
7	Solid waste	E-waste management	2	0.5
8	Solid waste	Top soil management	2	0.5

  
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SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November  
15, 2018**

**Page 17  
of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman  
SEAC-III)**

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

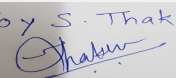
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## 52.Any Other Information

No Information Available

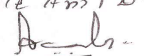
## 53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	One
Parking details:	Number and area of basement:	3 Nos Area - 18309 Sq Mt
	Number and area of podia:	NA
	Total Parking area:	10679 Sq Mt
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1416
	Number of 4-Wheelers as approved by competent authority:	590
	Public Transport:	Nearest bus stop
	Width of all Internal roads (m):	6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) Building and Construction projects
	Court cases pending if any	NA
	Other Relevant Informations	NA

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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 18 of 50**

Name: K. Anil Kale  
  
**Shri. Anil Kale (Chairman SEAC-III)**

	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-
<b>SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS</b>		
Summarised in brief information of Project as below.		
<b>Brief information of the project by SEAC</b>		
<p>PP submitted their application for prior EC for total plot area of 16362.00 m<sup>2</sup>, BUA of 51217 m<sup>2</sup> and FSI area of 29608 m<sup>2</sup> and Non FSI area of 21609 m<sup>2</sup>.</p> <p>PP proposes to construct 1 no. IT building. The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a) B2.</p>		
<b>DECISION OF SEAC</b>		
<p>SEAC decided to <b>recommend</b> the proposal for prior environmental Clearance, subject to PP complying with the following conditions:</p> <p><b>Specific Conditions by SEAC:</b></p> <p>1) PP to submit / upload undertaking regarding sustainable water supply.  2) PP informed that there are no trees on the plot. PP to submit / upload undertaking for the same.</p>		
<b>FINAL RECOMMENDATION</b>		
SEAC-III have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions		

 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 19 of 50</b>	<b>Name: Kote Anil D.</b> <b>Signature: </b> <b>Shri. Anil Kale (Chairman SEAC-III)</b>
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## Agenda for 76th Meeting of SEAC-3 (Day-1)

**SEAC Meeting number: 76 Meeting Date November 15, 2018**

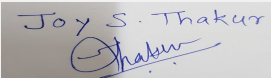
**Subject:** Environment Clearance for Proposed hill station type area development "The Green Butterfly" project at villages Telbaila, Majgaon and Saltar by Satind Infrastructures Pvt. Ltd.

**Is a Violation Case:** No

1.Name of Project	The Green Butterfly
2.Type of institution	Private
3.Name of Project Proponent	Smt. Taranjit Anand Director Satind Infrastructures Pvt. Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Hill station type area development.
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	List of survey number is attached as Annexure 1
9.Taluka	Mulshi
10.Village	Villages Telbaila, Majgaon and Saltar
11.Area of the project	Other area
12.IOD/IOA/Concession/Plan Approval Number	Approval from Urban Development, Department Govt. Of Maharashtra, vide notification no TPS1813/3302/CR-573 and TPS -1895/2247/CR-26/95/UD-13 declaring the specified area, three villages as a hill station development. <b>IOD/IOA/Concession/Plan Approval Number:</b> Approval from Urban Development, Department Govt. Of Maharashtra, vide notification no TPS1813/3302/CR-573 and TPS -1895/2247/CR-26/95/UD-13 declaring the specified area, three villages as a hill station development. <b>Approved Built-up Area:</b> 2096820
13.Note on the initiated work (If applicable)	No work has been initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	TPS1813/3302/CR-573 and TPS -1895/2247/CR-26/95/UD-13
15.Total Plot Area (sq. m.)	97,94,100 m <sup>2</sup>
16.Deductions	4,55,100 m <sup>2</sup>
17.Net Plot area	93,39,000 m <sup>2</sup>
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 18,96,829 m <sup>2</sup>
	b) Non FSI area (sq. m.): 1,99,992 m <sup>2</sup>
	c) Total BUA area (sq. m.): 20,96,820 m <sup>2</sup>
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m <sup>2</sup> )	1170372
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12 %
21.Estimated cost of the project	94650000000

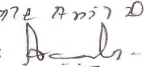
## 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Small Villa Plots ( 525 sq m ) 2000 unit	G + 1	9

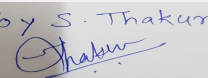
  
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SEAC-III)

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

Page 20  
of 50

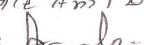
Name: K. Anil Kale  
Signature:   
Shri. Anil Kale (Chairman  
SEAC-III)

2	Medium Villa Plots ( 800 sq m ) 1300 units	G + 1	9
3	Luxury villa Plots ( 1000 sq m ) 800 units	G + 1	9
4	Service Quarters 1948 units	G + 7	24
5	Commercial AVGC Park 1 unit	G + 6	21
6	City Office 1 unit	G + 2	12
7	Office Complex 2 units	G + 2	12
8	Hill Street Shoppee 1 unit	G + 2	12
9	Service Industries 2 unit	G + 2	12
10	University 2 unit	G+ 2	12
11	Craft center 1 unit	G + 2	12
12	Cultural Center & Cineplex	G+ 2	12
13	Convention Center	G+ 2	12
14	Residential School	G+ 2	12
15	Primary + Secondary School	G+2	12
16	Multi specialty	G+ 2	12
17	Auditorium	G+ 2	12
18	City Club	G+ 2	12
19	Hotels < 3 star 5 nos Business Hotels	G + 3	12
20	Hotels > 3 star 3 nos Luxury Hotels & Convention centre	G + 4	16
21	Hotels > 3 star 1 nos Valley View Resorts	G + 4	16
<b>23.Number of tenants and shops</b>	Residential Residential Villas: 4,100 units Service quarters: 1948 units Total : 6048 units. Public Semi-public/Hotels Hotels (9): 2297 rooms Universities: 3 Residential School+School: 3 Hospital: 1 Commercial: AVGC Park: 1 Office complex: 2, Hill street shops City office: 1 Bank, Fire station, Petrol Pump, Police station: 1 each Service industries: 2. Office: 2		
<b>24.Number of expected residents / users</b>	Residential: 20,500 Hotels: 4830 Public-Semi-public: 10,377 Service quarters:9,739 Commercial:18954 Service Industries: 6273 Total population: 70,672 nos.		
<b>25.Tenant density per hectare</b>	Residential: 6.17 Tenement/hectare 30.87 Tenants/hectare		
<b>26.Height of the building(s)</b>			

  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 21 of 50**

**Name: K. Anil Kale**  
**Signature: **  
**Shri. Anil Kale (Chairman SEAC-III)**

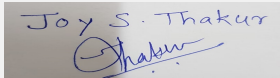
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	36 m
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Minimum road width (tertiary roads ) in the project premises is of 12 m has been proposed thus turning radius is more than 9 m for entire project.
<b>29.Existing structure (s) if any</b>	Gaathan of three villages ( Saltar, Teilbaila and Majgaon) are coming in Project area which will be retained as it is and around 200 buffer zone with ROW is left as per approval.
<b>30.Details of the demolition with disposal (If applicable)</b>	NA

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

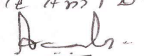
### 32.Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	Proposed Water reservoirs( Rain water) ( 12 nos)
	<b>Fresh water (CMD):</b>	4728 m3/day
	<b>Recycled water - Flushing (CMD):</b>	2625 m3/day
	<b>Recycled water - Gardening (CMD):</b>	3295 m3/day
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	11015m3/day including HVAC water
	<b>Fire fighting - Underground water tank(CMD):</b>	Details of individual UGW tank will be calculated during detail designing of individual unit
	<b>Fire fighting - Overhead water tank(CMD):</b>	Details of individual OHW tank will be calculated during detail designing of individual unit
	<b>Excess treated water</b>	00 m3/day

  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 22 of 50**

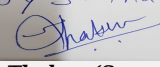
**Name: K. Anil Kale**  
**Signature: **  
**Shri. Anil Kale (Chairman SEAC-III)**

<b>Wet season:</b>	<b>Source of water</b>	Proposed Water reservoirs( Rain water) ( 12 nos)
	<b>Fresh water (CMD):</b>	4728 m3 / d a y
	<b>Recycled water - Flushing (CMD):</b>	2625 m3/day
	<b>Recycled water - Gardening (CMD):</b>	00m3/day
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	7720m3/day including HVAC
	<b>Fire fighting - Underground water tank(CMD):</b>	details of individual UGW tank will be calculated during detail designing of the unit
	<b>Fire fighting - Overhead water tank(CMD):</b>	Details of individual OHW tank will be calculated during detail designing of individual unit
<b>Excess treated water</b>	3295 m 3 /day	
<b>Details of Swimming pool (If any)</b>	Details of the dimension of the swimming pool plant and machinery used for the treatment of swimming pool water will be dependent on the design of the individual unit and their need for such requirement . it will be calculated during detail designing of each unit	

### 33.Details of Total water consumed

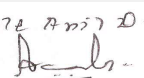
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	pre-monsoon approx. 4m bgl post monsoon approx.0.5 mbgl
	<b>Size and no of RWH tank(s) and Quantity:</b>	RWH tanks are not proposed , 5 check dams and 12 water bodies have been proposed
	<b>Location of the RWH tank(s):</b>	NA, location of check dams and reservoirs are given in master plan
	<b>Quantity of recharge pits:</b>	75 recharge pits with borewell of 30 m
	<b>Size of recharge pits :</b>	3mx3mx2m
	<b>Budgetary allocation (Capital cost) :</b>	Check dams - Rs. 2,50,000,000 , Rain water harvesting reservoirs
	<b>Budgetary allocation (O &amp; M cost) :</b>	7,50,000
	<b>Details of UGT tanks if any :</b>	Two water treatment plants of 3 MLD in Northern part and 2 MLD in southern part of project has been proposed. ESR of different capacities are proposed from where the water will be supplied to entire premises. Details of individual UGT tank will be calculated during detailed designing of each component.

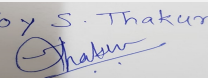
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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 23 of 50**

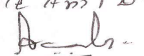
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**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The storm water collected through the existing streams/ravines and additional storm water drains of adequate capacity will be led to recharge pits/ check dams and water reservoirs.
	<b>Quantity of storm water:</b>	2,61,49,200 cum
	<b>Size of SWD:</b>	Details are given in the EIA report
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	6617 m3/day
	<b>STP technology:</b>	Phytorid Technology
	<b>Capacity of STP (CMD):</b>	32 no.s of STPs of Phytorid Technology+ 1 ETP/ STP proposed for hospital having total capacity 6618 m3/day
	<b>Location &amp; area of the STP:</b>	Area and location has been shown in master layout
	<b>Budgetary allocation (Capital cost):</b>	Rs. 25,50,00,060 /-
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs.65,98,000/-
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	1000 kg/day (Dry +wet)
	<b>Disposal of the construction waste debris:</b>	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	8.08 tonnes/day
	<b>Wet waste:</b>	9.76 tonnes/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	0,077 tonnes /day
	<b>STP Sludge (Dry sludge):</b>	115 kg/day
	<b>Others if any:</b>	E-waste- 0.089 tonnes/day

Joy S. Thakur  
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 24 of 50**

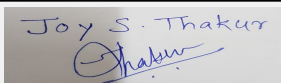
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**Signature: Shri. Anil Kale (Chairman SEAC-III)**



<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Dry waste will be further segregated into recyclable and non-recyclable. Recyclable waste like plastic and PET will be compressed through a baler machine and will be stored on site for further handover to authorized recyclers. Other non recyclable material with high calorific value will be treated by the method of pulverization and the pellets will be used for firing in boilers of hotels. The non-recyclable like sanitary wastes will be incinerated on site through an incinerator. A baler machine
	<b>Wet waste:</b>	Biodegradable waste will be treated in Biogas plant and Organic Waste Converter. One biogas plant has been proposed to treat the biodegradable waste generating from Hotels, Universities, Residential schools, Restaurants etc. around 57% of biodegradable waste will be get treated with Bio-methanation method. Around 43% of organic waste will be treated in organic waste convertor. Total 9 OWCs are proposed to treat the biodegradable waste generating from residential area, day school and city club.
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	Authorized vendor
	<b>STP Sludge (Dry sludge):</b>	STP sludge from Phytorid Technology STP will be fed to Biogas
	<b>Others if any:</b>	E-waste: Agreement for management and disposal has been done with Hi-tech Recyclers.
<b>Area requirement:</b>	<b>Location(s):</b>	Locations of OWC and Biogas are provided in master layout
	<b>Area for the storage of waste &amp; other material:</b>	Area and locations are given in the master layout
	<b>Area for machinery:</b>	Details are given in the master layout
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	1) OWC: Approx. Capital Cost: Rs.1,42,25,000/- 2) Sanitary Napkin Incinerator: Approx. Capital Cost: Rs. 8,70,000 /- 3) Smart Baler Machine : Approx. Capital Cost: Rs. 9,90,000/- 4) Biogas: Approx. Capital Cost: Rs. 1,93,00,000 /-
	<b>O &amp; M cost:</b>	1) OWC: Approx. O & M Cost: 27,84,848/- 2) Sanitary Napkin Incinerator: Approx.O & M Cost:5,17,978/- 3) Smart Baler Machine : Approx.O & M Cost: 8,53,910 /- 4) Biogas: Approx.O & M Cost:18,96,000 /-

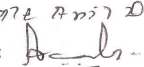
### 37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	6.5 to 7	6 to 6.5	5.5-9
2	TSS	mg/l	300 to 400	<10	100
3	BOD	mg/l	200 to 270	<10	30
4	COD	mg/l	500 to 560	<30	250
5	O & G	mg/l	15 to 20	<05	<10
Amount of effluent generation (CMD):		83			
Capacity of the ETP:		83			
Amount of treated effluent recycled :		50			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Details are given in EIA report			
Disposal of the ETP sludge		ETP sludge will be disposed to CHWTF			

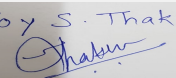
  
Joy S.Thakur (Secretary  
SEAC-III)

SEAC Meeting No: 76 Meeting Date: November  
15, 2018

Page 25  
of 50

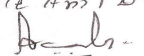
Name: K. Anil Kale  
Signature:   
Shri. Anil Kale (Chairman  
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38.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	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	96 no.s of DG sets of 1000 KVA	Approx. 153.30 Kg/hr per DG set	96	6.3m	10 inches	500-400 Deg Celsius	
2	4 no.s of DG sets of 750 KVA	Approx.130.4 Kg/hr per DG set	4	5.4 m	8 inches	500-400 Deg Celsius	
3	8 no.s of DG sets of 500 KVA	Approx.160 Kg/hr per DG set	8	4.4 m	6 inches	500-400 Deg Celsius	
4	3 no.s of DG sets of 400 KVA	Approx.160 Kg/hr per DG set	3	4.0 m	6 inches	500-400 Deg Celsius	
5	4 no.s of DG sets of 320 KVA	Approx.160 Kg/hr per DG set	4	3.5 m	6 inches	500-400 Deg Celsius	
6	6 no.s of DG sets of 250 KVA	Approx.31.8 Kg/hr per DG set	6	3.16 m	5 inches	500-400 Deg Celsius	
7	23 no.s of DG sets of 600 KVA	Approx.160 Kg/hr per DG set	23	4.8 m	6 inches	500-400 Deg Celsius	
40.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	Not applicable	Not applicable	Not applicable	Not applicable			
41.Source of Fuel		Petrol pump in the premise					
42.Mode of Transportation of fuel to site		By road					
43.Green Belt Development							
		Total RG area :	908.48 Acres (39.36%)				
		No of trees to be cut :	No tree will be cut. Only shrubs coming under building foot print or road will be cut.				
		Number of trees to be planted :	2.75 Lakhs				
		List of proposed native trees :	Detailed list is attached as Annexure No.2				
		Timeline for completion of plantation :	12-15 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	Detailed list is attached as Annexure no. 2	Detailed list is attached as Annexure no. 2	Detailed list is attached as Annexure no. 2	Detailed list is attached as Annexure no. 2			
45.Total quantity of plants on ground							
46.Number and list of shrubs and bushes species to be planted in the podium RG:							

Joy S. Thakur  
  
 Joy S.Thakur (Secretary SEAC-III)

SEAC Meeting No: 76 Meeting Date: November 15, 2018

Page 26 of 50

Name: K. Anil Kale  
  
 Shri. Anil Kale (Chairman SEAC-III)

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

### 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL/Tata Power
	<b>During Construction Phase: (Demand Load)</b>	Details are given in EIA report
	<b>DG set as Power back-up during construction phase</b>	Total 37 DG sets have been proposed during construction Phase of following capacities 1000 kVA-11 nos. , 750 kVA-3 nos., 600 kVA-13 nos. , 500 kVA3 nos. , 400 kVA-3 nos., 320 kVA-2 nos. , 250 kVA-2 nos.
	<b>During Operation phase (Connected load):</b>	223 MW
	<b>During Operation phase (Demand load):</b>	166 MVA
	<b>Transformer:</b>	Receiving station has been proposed
	<b>DG set as Power back-up during operation phase:</b>	Total 144 DG sets has been proposed: Details are as follows - 1) 1000 KVA - 96 DG sets 2) 750 KVA - 4 DG sets 3) 600 KVA - 23 DG sets 4) 500 KVA - 8 DG sets 5) 400 KVA-3 DG sets 6) 320 KVA-4 DG sets 7) 250 KVA- 6 DG sets
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	NA

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

- Around 35 to 40 % power requirement will be met through Green Energy, with combination of solar PV and wind mills.
- Each residential villa, will have 1.5 kWp to 10 kWp Solar PV and combination of wind and Solar PV power generating unit.
- Commercial complexes such as hotels, hospitals, office complex, office complex, University campus will have minimum 100 to 200 kW -solar PV plant to feed their own requirement.
- Non-buildable area will be explore for installation of solar PV plant.
- Power gener

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

Serial Number	Energy Conservation Measures	Saving %
1	Use of renewable energy like solar and wind energy	35-40 % energy saving by using renewable energy

### 50. Details of pollution control Systems

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

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 250,00,00,000/-
	<b>O &amp; M cost:</b>	Rs. 5,00,00,000/-

### 51. Environmental Management plan Budgetary Allocation

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

 <b>Joy S. Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 27 of 50</b>	<b>Name: K. Anil Kale</b>  <b>Signature: Shri. Anil Kale (Chairman SEAC-III)</b>
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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	land environment	Labour camp toilets	20,00,000/-
2	health and safety	labour safety equipment and training	2,00,00,000/-
3	land , water, noise and air environment	Environmental monitoring	7,60,000/-
4	Health and safety	Disinfection and Health Check -ups (per year)	24,90,000/-
5	water environment	Sewage treatment plant (2 no.s)	Capital cost 60,00,000/- O & M cost 9,00,000/-
6	land environment	Organic waste treatment (OWC)	Capital cost 20,25,000/- O & M cost 4,77,855/-
7	water environment	Packaged water treatment plant	30,00,000/-
8	air environment	continuous air monitoring station	Capital cost 1,03,00,000 O & M 7,00,000 /-
9	water environment	Check dams	2,50,00,000/-
10	water environmnet	Reservoirs	15,00,00,000/-

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	32 no.s of STP with Phytoid Technology	25,50,00,060 /-	65,98,000/-
2	OWC	9 OWC machines	1,42,25,000/-	27,84,848/-
3	Sanitary Napkin Incinerator	9 Incinerators	8,70,000 /-	5,17,978/-
4	Smart Baler Machine	9 baler machines	9,90,000/-	8,53,910 /-
5	Biogas	1 biogas plant	1,93,00,000 /-	18,96,000 /-
6	Landscaping	Development and maintenance of Landscape area	41,19,70,000/-	32,95,600/-
7	Rain Water Harvesting	Recharge pits	26,25,000 /-	7,50,000/-
8	Water Treatment Plant	2. no.s of WTPs	8,04,00,000/-	1,22,16,000/-
9	ETP / STP for Hospital	1 ETP-STP proposed for hospital	1,31,00,000/-	30,00,000 /-
10	Solar and Wind Energy	Devices for renewable energy	250,00,00,000/-	5,00,00,000/-
11	Environmental Monitoring	Land, air, noise and waterenvironment	Cost of online monitoring has been considered in construction phase EMP costing.	30,65,000/-

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

 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<p align="center"><b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b></p>	<p align="center"><b>Page 28 of 50</b></p>	<p align="right"><b>Name: K. Anil Kale</b>  <b>Signature: Anil Kale</b>  <b>Shri. Anil Kale (Chairman SEAC-III)</b></p>
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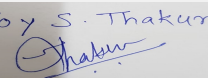
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 52. Any Other Information

No Information Available

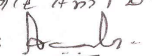
### 53. Traffic Management

	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	The Major District Road that connects Khalapur and Khopoli to Pali somewhat North to South, parallel and west to the road that presently connects the site from Lonavala and onwards onto Tamhini Ghat. This MDR is a potential future connector, and the PWD's present road map for Raigad District and the Govt. of Maharashtra's own MoU with this development, opens possible opportunities for connecting the lower main road to the Lonavala-Tamhini connector, bringing Mumbai to within 1.0-1.5 hours to th
<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>	For visitors around 95000 sq m area has been identified for around 3000 vehicles. In total provision of parking for 12044 number of 4 wheeler and 36132 of 2 wheeler and bicycle is proposed for the project. For private parking facility is set aside in three different areas and will be distributed within each individual sector and applicable villas.
	<b>Area per car:</b>	12.5
	<b>Area per car:</b>	12.5
	<b>Number of 2-Wheelers as approved by competent authority:</b>	36132 of 2 wheelers
	<b>Number of 4-Wheelers as approved by competent authority:</b>	12044 number of 4 wheelers
	<b>Public Transport:</b>	Public transport will be arranged by SIPL. Details are given in EIA report.
	<b>Width of all Internal roads (m):</b>	Internal Road proposed • Arterial Roads - 36m ROW (3-Lane + 3-Lane) • Sub Arterial Roads - 24m & 18m ROW (2-Lane + 2-Lane) • Tertiary Roads - 12m ROW (2-Lane)
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	1) Reserve Forest near Saltar Site adjacent 2) Reserve Forest near Kewani Pathar 5 km - S 3) Reserve Forest near Navghar 5 km - W 4) Reserved Forest near Kadva Dongar 9.30 km - NE 5) Reserved Forest near Morgiri 13 km - NE 6) Reserve Forest near Ponda 14 km- SE

Joy S. Thakur  
  
**Joy S. Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 29 of 50**

**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

	<b>Category as per schedule of EIA Notification sheet</b>	8 b "Townships and Area development"
	<b>Court cases pending if any</b>	1 court case is Pending in Civil Court of Pune
	<b>Other Relevant Informations</b>	<p>This Application is for compliance.</p> <p>As "The Green Butterfly" project was submitted to Dept of Environment, Govt. of Maharashtra dated 20.04.2009 and discussed in 20th SEAC meeting dated 30.11.2009.</p> <p>-On submission of compliance, the proposal was discussed in 43rd SEAC meeting, Project was recommended for prior Environment Clearance dated 18.04.2011.</p> <p>-Project was considered in 40th SEIAA meeting dated 12.10.2011. Authority asked for the final approval of hill station development u/s 20 (4) of the MRTP Act, 1966.</p> <p>-After submission of approval from the Govt. of Maharashtra vide its notification dated 26.11.2015, the case was considered in 96th SEIAA meeting.</p> <p>- Proposal discussed in 47th SEAC-III meeting under EIA Notification as a compliance case. Terms of Reference (ToR) has been issued by Dept. of Environment, Govt. of Maharashtra to supplement earlier EIA studies dated 23.05.2016.</p> <p>-SEAC III hearing has been done in 55th Meeting dated 8.10.2016.</p> <p>- Minutes of meetings has been received dated 19.10.2016.</p>
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summarised in brief information of Project as below.

### Brief information of the project by SEAC

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 9794100 m<sup>2</sup>, Total BUA of 2096820 m<sup>2</sup> and FSI area of 1896829 m<sup>2</sup>.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(b)B1.

### DECISION OF SEAC

 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 30 of 50</b>	<b>Name: Kote Anil D.</b>  <b>Signature: Shri. Anil Kale (Chairman SEAC-III)</b>
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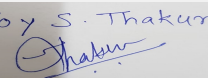
PP informed that they were unable to present points related to MEP as their MEP consultant was absent. After detail discussion of the case, committee shared the observations with the PP in respect to **water environment, traffic Management, ecology & biodiversity and Disaster Management Plan, energy and power and socio-economic issues** and asked to submit information to the committee for further **Air, Noise, Solid Waste Management, Disaster Management Plan and CER chapters in the next meeting** and also PP shall make detail presentation regarding EIA studies/TOR the same. The committee shall perform the site visit as and when necessary.

**Specific Conditions by SEAC:**

- 1) PP informed that they have applied for remarks from competent authority of GoM regarding catchment area water consumption.
- 2) PP to submit details of check dams, contour map, NOC to change natural course of water and cross sections along with detailed drawings.
- 3) PP to undertake waste management program designed to avoid run-off of nutrients (from use of fertilizers) /pesticides to water drains or water bodies.
- 4) PP to submit enlarged maps /plans of existing drainage pattern.
- 5) PP to submit details / correspondence made with the Government regarding following traffic management points: (a) Details of roads to be developed by Government. (b) Intersection diagrams to scale of all external road networks, traffic volume counts. (c) Present volumes on approach roads - inputs from Amby Valley / Maharashtra Valley & nearby developments. (d) V/C ratio on external roads. (e) Internal traffic generation - commercial / residential /others. (f) V/C ratio on all internal roads. (g) Sector wise fire tender movement. (h) Cross section of all driveways / buildings. (i) Parking details of each sectors. (j) Separate parking to be provided for commercial and residential purpose.
- 6) PP to submit following details regarding ecology and biodiversity: (a) Status of NOC from Forest Department. (b) PP to submit undertaking regarding the impacts of lighting during construction phase as well as when the human habitation occurs on animals, particularly birds as regards the impacts on nesting activity, roosting places, and feeding behaviour since the alteration will change the food available which may disturb the balance of these communities as urban avoiders would leave the area being sensitive to human presence. It may encourage and consequently the variety of raptors in the area. (c) PP to convene a visit to Salter Lake and submit special chapter on macrophytes.
- 7) PP to submit following details regarding energy and power: (a) PP to carry out specific survey for wind and solar energy generation. (b) PP to get the required load approved by MSEDCL. PP to submit agreement made to this effect.
- 8) PP to provide cremation facility.

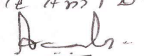
**FINAL RECOMMENDATION**

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

Joy S. Thakur  
  
**Joy S. Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 31 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

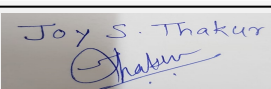
## Agenda for 76th Meeting of SEAC-3 (Day-1)

**SEAC Meeting number: 76 Meeting Date November 15, 2018**

**Subject:** Environment Clearance for Integrated Special Township at Gat nos. 1 to 21, 23 to 41, 43 to 57, 58/A to D, 59 to 75, 76/2, 77 to 124, 126 to 129, 202, 400, 405, 407, 419, 443, 448, 460, 471, 483, 509, 511, 520, 523, 540/1 to 3, 541, 543, 551 to 553, 1059 to 1068, 1070 to 1077, 1081 to 1093, 1099 to 1111, 1125 to 1131, 1132/1 to 1132/3, 1136 to 1149, 1150 (part), 1151, 1152/ 1 & 2, 1153 to 1156, 1158, 1159, 1160/ 1 to 5, 1163 to 1167, village Kadamvakvasti, Tal. Haveli, Dist. Pune, State - Maharashtra

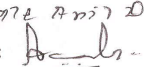
**Is a Violation Case:** No

<b>1.Name of Project</b>	Riverview City
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Mr. Satish Dattatraya Magar
<b>4.Name of Consultant</b>	NABET Accrediated Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
<b>5.Type of project</b>	Integrated Special Township
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	Gat nos. 1 to 21, 23 to 41, 43 to 57, 58/A to D, 59 to 75, 76/2, 77 to 124, 126 to 129, 202, 400, 405, 407, 419, 443, 448, 460, 471, 483, 509, 511, 520, 523, 540/1 to 3, 541, 543, 551 to 553, 1059 to 1068, 1070 to 1077, 1081 to 1093, 1099 to 1111, 1125 to 1131, 1132/1 to 1132/3, 1136 to 1149, 1150 (part), 1151, 1152/ 1 & 2, 1153 to 1156, 1158, 1159, 1160/ 1 to 5, 1163 to 1167, village Kadamvakvasti, Tal. Haveli, Dist. Pune, State - Maharashtra
<b>9.Taluka</b>	Haveli
<b>10.Village</b>	Kadamwakvasti
<b>Correspondence Name:</b>	Riverview City Constructions Limited
<b>Room Number:</b>	13
<b>Floor:</b>	NA
<b>Building Name:</b>	"Megaspac"
<b>Road/Street Name:</b>	Sholapur Bazaar Road, Off East Street
<b>Locality:</b>	Camp
<b>City:</b>	Pune
<b>11.Area of the project</b>	Grampanchayat Kadamwakvasti, Pune, Sanctioning Authority: PMRDA
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	(i) Notification for Development of Townships, No. TPS 1804/Pune R. P. DCR/UD-13 dated 16.11.2005 (ii) Notification for Locational Clearance, No. TPS- 1813/392/12/CR-572/13/UD-13 dated 20.10.2015 (iii) Corrigendum in Notification for Locational Clearance, No. TPS-1813/392/12/CR-572/13/UD-13 dated 01.06.2016 (iv) Notification for Locational Clearance, No. TPS-1816/03/CR.29/17/UD-13 dated 30.12.2016
	<b>IOD/IOA/Concession/Plan Approval Number:</b> NA
	<b>Approved Built-up Area:</b> 5793958
<b>13.Note on the initiated work (If applicable)</b>	NA
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	NA
<b>15.Total Plot Area (sq. m.)</b>	21,03,951.00 m <sup>2</sup>
<b>16.Deductions</b>	1,57,000 m <sup>2</sup>
<b>17.Net Plot area</b>	19,46,951 m <sup>2</sup>
<b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> 38,98,837
	<b>b) Non FSI area (sq. m.):</b> 1895121
	<b>c) Total BUA area (sq. m.):</b> 5793958

  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 32 of 50**

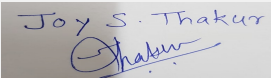
**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**



18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): As per ITP EC to be achieved before sanctioning master plan.
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	10,26,840
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.81 %
21.Estimated cost of the project	59410600000

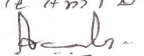
## 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	RVR1 - Type 3, Number of Building - 5	P+22	67.80
2	RVR1 - Type 4, Number of Building - 2	P+P+STILT+22	74.40
3	RVR1 - Type 5, Number of Building - 2	P+P+STILT+30	97.60
4	RVR2 - Type 3, Number of Building - 2	P+22	67.80
5	RVR2 - Type 4, Number of Building - 2	P+30	91.00
6	RVR3 - Type 5, Number of Building - 2	P+P+STILT+30	97.60
7	RVR3 - Type 4, Number of Building - 2	P+P+STILT+22	74.40
8	RVR3 - Type 3, Number of Building - 3	P+P+STILT+22	74.40
9	RVR4 - Type 3, Number of Building - 3	P+P+STILT+31	99.80
10	RVR5 - Type 1, Number of Building - 5	P+14	44.05
11	RVR6 - Type 1, Number of Building - 3	P+9	26.45
12	RVR7 - Type 1, Number of Building - 5	P+14	44.05
13	RVR8 - Type 3, Number of Building - 10	P+P+STILT+31	99.80
14	RVR8 - Type 4, Number of Building - 2	P+P+STILT+31	99.80
15	RVR8 - Type 5, Number of Building - 2	P+P+STILT+31	99.80
16	RVR9 - Type 1, Number of Building - 4	P+11	32.30
17	RVR10, Bungalows	70 Bungalows	12.00
18	RVR11, Bungalows	65 Bungalows	12.00
19	RVR12 - Type 2, Number of Building - 4	P+31	93.90
20	RVR13 - Type 3, Number of Building - 4	P+P+STILT+31	99.80
21	RVR13 - Type 3, Number of Building - 1	P+P+STILT+31	99.80

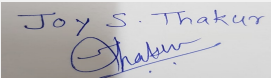
  
Joy S.Thakur (Secretary  
SEAC-III)

**SEAC Meeting No: 76 Meeting Date: November  
15, 2018**

Page 33  
of 50

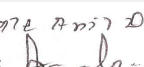

Name: K 072 Anil D.  
Signature:   
Shri. Anil Kale (Chairman  
SEAC-III)

22	RVR13 - Type 4, Number of Building - 5	P+P+STILT+31	99.80
23	RVR14 - Type 3, Number of Building - 9	P+P+STILT+31	99.80
24	RVR15 - Type 5, Number of Building - 2	P+31	93.90
25	RVR16 - Type 3, Number of Building - 3	P+P+STILT+31	99.80
26	RVR17 - Type 3, Number of Building - 9	P+P+STILT+31	99.80
27	RVR17 - Type 5, Number of Building - 4	P+P+STILT+31	99.80
28	RVR17 - Type 4, Number of Building - 3	P+P+STILT+31	99.80
29	RVR18 - Type 4, Number of Building - 8	P+31	93.90
30	RVR19 - Type 5, Number of Building - 7	P+31	93.90
31	RVR20 - Type 3, Number of Building - 5	P+P+STILT+31	99.80
32	RVR20 - Type 4, Number of Building - 3	P+P+STILT+31	99.80
33	RVR20 - Type 5, Number of Building - 2	P+P+STILT+31	99.80
34	RVR21 - Type 3, Number of Building - 3	P+P+STILT+31	99.80
35	RVR21 - Type 3, Number of Building - 1	P+P+STILT+31	99.80
36	RVR21 - Type 4, Number of Building - 4	P+P+STILT+31	99.80
37	RVR22 - Type 5, Number of Building - 4	P+P+STILT+31	99.80
38	RVR22 - Type 4, Number of Building - 3	P+P+STILT+31	99.80
39	RVR23 - Type 4, Number of Building - 5	P+P+STILT+31	99.80
40	RVR23 - Type 5, Number of Building - 3	P+P+STILT+31	99.80
41	RVR24 - Type 3, Number of Building - 6	P+P+STILT+31	99.80
42	RVR24 - Type 4, Number of Building - 2	P+P+STILT+31	99.80
43	RVR25 - Type 1, Number of Building - 6	P+14	44.05
44	RVA2 - Primary School, Number of Building - 1	G+3	14.85
45	RVA3 - Assembly Hall, Number of Building - 1	G	5
46	RVA4 - Primary & Secondary School, Number of Building - 1	G+3	14.85
47	RVA5 - Primary & Secondary School, Number of Building - 1	G+3	14.85

  
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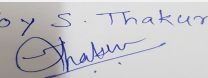
**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 34 of 50**

**Name:**   
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

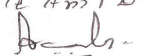
48	RVC1 - Shopping Center, Number of Building - 1	G+2	12.90
49	RVC2 - IT Park, Number of Building - 3	P+P+9	40.80
50	RVC3 - Shopping Center, Number of Building - 1	P+5	22.20
51	RVC4 - Shopping Center, Number of Building - 1	P+5	22.20
52	RVC5 - Shopping Center, Number of Building - 1	P+7	29.40
53	RVC6 - Shopping Center, Number of Building - 2	P+7	29.40
54	RVC7 - Office Complex, Number of Building - 2	P+P+9	40.80
55	RVC8 - Office Complex, Number of Building - 3	P+P+9	40.80
56	RVC9 - Commercial Complex, Number of Building - 2	P+8	33
57	RVC9 - Commercial Complex, Number of Building - 1	P+P+8	37.20
58	RVC9 - Commercial Complex, Number of Building - 1	P+P+8	37.20
59	RVC9 - Commercial Complex, Number of Building - 1	P+P+12	51.60
60	RVA1 - Hospital, Number of Building - 1	LG +UG +5	22.00

<b>23.Number of tenants and shops</b>	160 buildings & 135 bungalows with 36347 tenements, One 100 beds hospitals, 3 Schools, 19 Commercial Buildings and Other Public Utilities such as Public Parking 3 Nos., Biogas plant, EHV sub station, Police station, Solid waste management plant, Bus station, HV sub station 4 Nos., STP 4 Nos, Fire brigade station, WTP, Burial ground & Cemetery, Cremation ground
<b>24.Number of expected residents / users</b>	Expected Residential users: 181735, Expected Non-residential users: 72,685, Expected Total Population: 254435
<b>25.Tenant density per hectare</b>	1212 per hectare
<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>	12 m. As this is Integrated Township Project, Fire Station shall be provided within premises.
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	= 9 m
<b>29.Existing structure (s) if any</b>	Small huts and homes of villagers and some temporary structures
<b>30.Details of the demolition with disposal (If applicable)</b>	Small huts and homes of villagers and some temporary structures shall be demolished

Joy S. Thakur  
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 35 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

### 31. Production Details

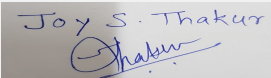
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

### 32. Total Water Requirement

<b>Dry season:</b>	Source of water	Irrigation Department - Khadakwasla R B Canal							
	Fresh water (CMD):	17713 m3/day							
	Recycled water - Flushing (CMD):	9901 m3/day							
	Recycled water - Gardening (CMD):	2728 m3/day							
	Swimming pool make up (Cum):	NA							
	Total Water Requirement (CMD) :	41160 m3/day							
	Fire fighting - Underground water tank(CMD):	8350 m3							
	Fire fighting - Overhead water tank(CMD):	NA							
	Excess treated water	152 m3/day							
<b>Wet season:</b>	Source of water	Irrigation Department - Khadakwasla R B Canal							
	Fresh water (CMD):	17713 m3/day							
	Recycled water - Flushing (CMD):	9901 m3/day							
	Recycled water - Gardening (CMD):	Nil							
	Swimming pool make up (Cum):	NA							
	Total Water Requirement (CMD) :	38004 m3/day							
	Fire fighting - Underground water tank(CMD):	8350 m3							
	Fire fighting - Overhead water tank(CMD):	NA							
	Excess treated water	3317 m3/day							
<b>Details of Swimming pool (If any)</b>	NA								

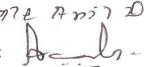
### 33. Details of Total water consumed

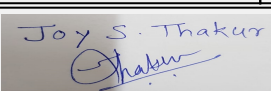
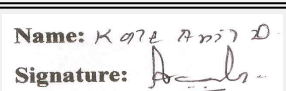
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	27614	27614	Not applicable	2761	2761	Not applicable	24853	24853

  
**Joy S. Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 36 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	About 15 meter
	<b>Size and no of RWH tank(s) and Quantity:</b>	Some of the Existing Dug wells will be used as Rain Water Storage.
	<b>Location of the RWH tank(s):</b>	Seasonal Stream will be used for Rain water storage with Bund walls.
	<b>Quantity of recharge pits:</b>	100
	<b>Size of recharge pits :</b>	2 m X 2 m X 2 m
	<b>Budgetary allocation (Capital cost) :</b>	105 lacs
	<b>Budgetary allocation (O &amp; M cost) :</b>	10 lacs
	<b>Details of UGT tanks if any :</b>	Domestic Water tank (1.5 DAY CAP): 26500 m3, Flushing Water tank M3 (1 DAY CAP): 9816 m3, Fire Fighting Water Tank: 8350 m3
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	by open drain channels/ pipelines
	<b>Quantity of storm water:</b>	Peak runoff-1823 cum/min
	<b>Size of SWD:</b>	300-600 mm wide
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	24835
	<b>STP technology:</b>	MBR
	<b>Capacity of STP (CMD):</b>	Number of STP - 4, Capacity of STP - 26110 m3/day
	<b>Location &amp; area of the STP:</b>	Sewage Treatment plants are located at 4 different locations considering the existing contour levels. Total Area of STP's - 21686 sq. m
	<b>Budgetary allocation (Capital cost):</b>	8130 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	1440 Lacs
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	525 kg/day
	<b>Disposal of the construction waste debris:</b>	Non structural applications such as Kerb Stones, drain covers, paving blocks in pedestrian area
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	37169 kg/day
	<b>Wet waste:</b>	62662 kg/day
	<b>Hazardous waste:</b>	As per Generation (Handed over to authorized collection and reprocessing agency)
	<b>Biomedical waste (If applicable):</b>	29 kg/day
	<b>STP Sludge (Dry sludge):</b>	2459 kg/day
	<b>Others if any:</b>	E-Waste: As per generation (Handed over to authorized agency)
 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 37 of 50</b>  <b>Shri. Anil Kale (Chairman SEAC-III)</b>

<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Handed over to Authorized Recycling Agency
	<b>Wet waste:</b>	Biogas plant & Vermicompost
	<b>Hazardous waste:</b>	Handed over to authorized agency
	<b>Biomedical waste (If applicable):</b>	Handed over to authorized agency
	<b>STP Sludge (Dry sludge):</b>	Used as soil richner after drying for landscaping
	<b>Others if any:</b>	E-Waste will be handed over to authorized agency
<b>Area requirement:</b>	<b>Location(s):</b>	Ground
	<b>Area for the storage of waste &amp; other material:</b>	178.37 m <sup>2</sup>
	<b>Area for machinery:</b>	Total area for SWM - 6020 m <sup>2</sup> , Area for machinery - 4533.67 m <sup>2</sup>
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	250 lacs
	<b>O &amp; M cost:</b>	10.2 lacs

### 37. Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.5 - 9.0	7 - 8	7-8
2	COD	mg/l	700-800	<250	<50
3	BOD	mg/l	250-300	<100	<20
4	TSS	mg/l	100-200	<100	<50
5	Oil & Grease	mg/l	50-70	20	<10
Amount of effluent generation (CMD):		34.20 m <sup>3</sup> /day			
Capacity of the ETP:		As per requirement			
Amount of treated effluent recycled :		30 m <sup>3</sup> /day			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		The incoming Sewage will be passed through bar screen chamber for screening. Screening is necessary to remove the coarse/fine particles from the Sewage. So that these particles do not clog the pump. The Screened Sewage is then transferred to the equalization tank where any hydraulic as well as organic variations will be dampened. Aeration will be provided to Equalized sewage for agitation & enhance oxygen content. Partially aerated sewage will be further transfer to settling tank. Excess Suspe			
Disposal of the ETP sludge		Sent to authorized bio-medical waste handling agency			

### 38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG oil	Schedule IV, Item No. 20	litres	Not applicable	450 L/d	450 L/d	Used Oil will be handed over to authorized collection agency for disposal
2	Used Lead Acid Batteries	Schedule IV, Item No. 17	Number	Not applicable	As per generation	As per generation	Sold to authorized agency

### 39. Stacks emission Details

 <b>Joy S. Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 38 of 50</b>	<b>Name: K. Anil Kale</b>  <b>Shri. Anil Kale (Chairman SEAC-III)</b>
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Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG - 126 Number	Diesel - 450 L/d	126	6	0.15	35 degree

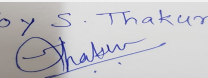
#### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total	
1	Diesel	Not applicable	450 Liters	450 Liters	
41.Source of Fuel		local supplier			
42.Mode of Transportation of fuel to site		local supplier			

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	RG area on Ground-420790 m2, RG area on Podium-9985 m2, Total RG area- 430775.2 m2
	<b>No of trees to be cut :</b>	260
	<b>Number of trees to be planted :</b>	32525
	<b>List of proposed native trees :</b>	31955
	<b>Timeline for completion of plantation :</b>	NA

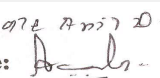
#### 44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Acacia nilotica	Babul	104	It is larval host for butterfly common grass yellow.
2	Acacia suma	Kadar	104	The tree is primarily grown for its durable wood, gum edible, and medicinal properties.
3	Alstonia scholaris	Saptaparni	104	Attracts bees during flowering. Being tall serves as nesting.
4	Amoora rohituka	Pithraj	104	Evergreen Tree, used as traditional medicine for cancer, tumor, liver and spleen disease.
5	Annona reticulata	Custard apple- Sitaphal	104	Annona reticulata is a small deciduous or semi-evergreen tree, best known for its fruit known as custard apple.
6	Anoegissus acuminata	Dhawada	104	Attracts insects while flowering. Planted for restoration.
7	Achras Sapota	Chickoo	104	It is tropical evergreen tree.
8	Bauhunia purpurea	Rakta Kanchan	104	It is a small to medium-sized deciduous fast-growing shrub or tree known as Butterfly tree.
9	Bombax ceiba	Silk cotton tree	104	Food plant for humans, birds.
10	Butea monosperma	Palas	104	Used in afforestation of saline and waterlogged regions.
11	Careya arborea	Kumbha	104	Larval host to butterfly grey count Fruits favoured by wild animals

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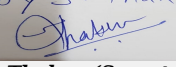
**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 39 of 50**

**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**




12	Cassia fistula	Bahawa	104	Larval host for butterflies like common emigrant, etc
13	Cocos nucifera	Nariyal	104	It is a large palm, growing to 30 m tall, with pinnate leaves 4-6 m long.
14	Cordia dichotoma	Bhokar	104	Attracts fruit eating birds. Hardy, sturdy species. Drought tolerant.
15	Crateva adansonii	Varun	104	It is larval host for butterflies psyche, striped albatross.
16	Dalbergia lanceolaria	Phashi	154	Attracts insects while flowering. Nitrogen fixing tree, suitable for restoration.
17	Dalbergia latifolia	Shisam	104	Larval host for butterflies chestnut streaked sailer, etc.
18	Diospyros peregrina	Tembhurni	104	Fruits are readily eaten by birds.
19	Erythrina stricta	Pangara	104	Attracts lot of birds during flowering.
20	Ficus benghalensis	Banyan	50	Larval host for butterflies like common Indian crow, Fruiting trees attract fruit eating birds
21	Ficus elastica	Rubber fig	50	It is popular ornamental tree grown in the world, known as rubber tree
22	Garcinia indica	Kokum	104	Evergreen tree good for creating perennial greenery.
23	Gmelina arborea	Gambhari	104	Good for plantation for restoration.
24	Haldina cordifolia	Hedu	104	It is a deciduous tree with a large crown; generally growing from 18 - 30 metres tall, specimens up to 45 metres have been recorded.
25	Holarrhena pubescens	Kuda	104	It is larval lost for butterfly common Indian crow.
26	Lagerstroemia microcarpa	Nana	104	Larval host for butterflies large oakblue. Attracts bees and butterflies.
27	Macaranga peltata	Chandada	104	Small dioecious tree; Flowers greenish yellow, male in dense panicles, concealed in large bracts, female in smaller panicles, seeds black.
28	Mangifera indica	Mango	104	Fruits are eaten by wild animals. Larval host for butterfly common baron.
29	Manilkara hexandra	Khirmi	104	Evergreen tree, grows up to 20 m height.
30	Mesua ferrea	Nagchapha	104	Important species in cores or interior of forest
31	Mimusops elengi	Bakul	104	Fruits are eaten by animals.
32	Psidium guajava	Guaua	104	Evergreen tree good for creating perennial greenery.
33	Psidium guajava	Guaua	104	Evergreen tree good for creating perennial greenery.

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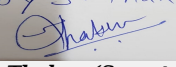
**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 40 of 50**

**Name:** K. Anil Kale  
  
**Signature:**  
**Shri. Anil Kale (Chairman SEAC-III)**

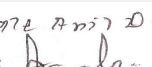


34	Pterocarpus marsupium	Bija	104	It is a medium to large, deciduous tree that can grow up to 30 metres tall.
35	Pterospermum acerifolium	Muchkund	104	It is most likely to grow naturally along forested stream banks.
36	Putranjiva roxburghii	Jivanputra	154	Fast growing, evergreen tree, growing up to 12 m in height, having medicinal properties.
37	Sapindus laurifolius	Ritha	104	It is larval host for butterfly indigo flash.
38	Saraca asoca	Sita ashok	104	It is larval host for butterfly like common cerulean
39	Polyalthia longifolio	Ashoka tree	104	The Ashoka tree is native to India, is a lofty evergreen tree, commonly planted due to its effectiveness in controlling noise pollution.
40	Semecarpus anacardium	Bibba	104	It is deciduous tree, 10-15 m wide tall, Fruits attracts birds.
41	Spondias pinnata	Ambada	104	It is deciduous tree, 10-15 m wide tall, Fruits attracts birds.
42	Tamarindus indica	Chinch	104	Fruits are favored by wild animals. Good for shade, reduces temperature.
43	Terminalia catappa	Indian almond	104	Indian almonds are spreading trees with large, leathery, oval leaves which turn red before they fall. The tree has a distinctive shape.
44	Thespesia populnea	Bhend	104	It is larval host for butterfly chestnut streaked sailer.
45	Trema orientalis	Kharal	104	Favored by birds while fruiting. A sturdy, fast growing plant
46	Wrightia tinctoria	Kala kuda	104	Fast growing, sturdy plant
47	Ziziphus mauritiana	Bor	104	It is larval host for butterflies indigo flash. Slate flash and tussar silk moth.
48	Bambusa arundinacea	Kalak	633	It is larval host for butterflies like madrasace, dark palm dart, etc.
49	Dendrocalamus strictus	Meskati	633	Hardy and sturdy plants, drought resistant, fast growing.
50	Ficus hispida	Kal umbar	633	Fruiting trees attract fruit eating birds. Larval host for butterflies like brown king crow, etc.
51	Ficus racemosa	Umbar	633	Fruiting trees attract fruit eating birds. Larval host for butterflies like silver streak blue, etc.
52	Neolamarckia cadamba	Kadamb	633	Broad leaved trees attract many birds and insects while flowering and fruiting.
53	Pongamia pinnata	Karanj	633	It is larval host for butterflies chestnut streaked sailer, dark cerulean, etc.
54	Salix tetrasperma	Walunj	633	It is larval host for butterfly common leopard.

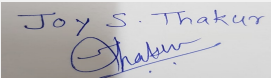
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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 41 of 50**

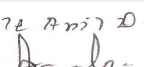
**Name:** K. Anil Kale  
  
**Signature:**  
**Shri. Anil Kale (Chairman SEAC-III)**

55	Syzygium cumini	Jambhul	633	Attracts many birds while fruiting. Good for plantation in restoration.
56	Terminalia cuneata	Arjun	633	Evergreen trees, to 30 m, bole often buttressed; bark 6-8 mm thick, surface pinkish-grey, smooth, flaking off in thin layers; blaze pink; exudation red, gummy; branchlets drooping.
57	Bauhinia racemosa	Apple	181	It is larval host for butterfly common emigrant.
58	Citrus limon	Lemon tree	181	Nontoxic insecticide treatment
59	Mallotus philippensis	Kunku	181	It is a plant in the spurge family. It is known as the kamala tree or red kamala or kumkum tree, due to the fruit covering, which produces a red dye.
60	Murraya koenigii	Kadhipatta	181	It is larval host for butterflies like lime
61	Murraya paniculata	Orange Jasmine / Kamini	181	Blooms most of the year, Flower attract Honeybees.
62	Nyctanthes arbor tristis	Parijatak	181	Blooms most of the year, Flower attract Honeybees.
63	Vitex negundo	Nirgundi	181	Attracts a lot of butterflies and birds. Forms a good screen or wind break
64	Calophyllum inophyllum	Undi	181	Flower attract Honeybees
65	Ficus microcarpa	Nandruk	181	It is larval host for butterflies. Attracts birds while fruiting.
66	Ficus religiosa	Pimpal	181	It is larval host for butterflies. Attracts birds while fruiting.
67	Heterophragma quadriloculare	Waras	181	Profusely fruiting trees attract a lot of fruit eating birds.
68	Madhuca latifolia	Indian Butter Tree	181	It is a fast-growing tree that grows to approximately 20 meters in height, possesses evergreen or semi-evergreen foliage.
69	Schleichera oleosa	Kusum tree	181	It is larval host for butterflies malayan, western centaur oakblue, common hedge
70	Terminalia cuneata	Arjun	181	Evergreen trees, grows up to 30 m height, bole often buttressed; bark 6-8 mm thick, surface pinkish-grey, smooth, flaking off in thin layers; blaze pink; exudation red, gummy; branchlets drooping. Leaves simple, opposite to alternate.
71	Albizia procera	Kinhai	3249	It is larval host for butterflies-common grass yellow , three spot grass yellow
72	Madhuca longifolia	Mahua	3252	Flowering attracts many insects.
73	Melia dubia	Limbara	3249	Large deciduous and fast growing tree with wide spreading branches on a stout, straight, tall bole.

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**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

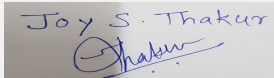
**Page 42 of 50**

**Name:** K. Anil Kale  
  
**Signature:**  
**Shri. Anil Kale (Chairman SEAC-III)**

74	Michelia champaca	Champa	3249	Trees, buttressed, up to 30 m tall. Trunk & Bark. Bark grey, lenticellate; blaze cream with orange speckles.
75	Mitragyna parvifolia	Kalam	3249	It is larval host for butterfly commander.
<b>45.Total quantity of plants on ground</b>				

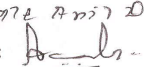
#### **46.Number and list of shrubs and bushes species to be planted in the podium RG:**

Serial Number	Name	C/C Distance	Area m2
1	Bahuniatomentosa (Yellow orchid tree)	1.2 m	718.9
2	Cestrum nocturnum (Ratrani)	0.9 m	718.9
3	Vitex negundo (Nirgundi)	0.9 m	718.9
4	Hamelia patens (Muna)	1.2 m	718.9
5	Dendrocalamus strictus (Bamboo)	1.8 m	718.9
6	Nyctanthes arbortristis (Prajakta)	1.2 m	718.9
7	Gardenia gummifera (Dikemali)	1.2 m	718.9
8	Wrightia tinctoria (Kalakuda)	1.2 m	718.9
9	Mallotus philippensis (Kamala tree)	1.2 m	718.9
10	Howea forsteriana (Paradise palm)	1.2 m	718.9
11	Holarrhena pubscens (Kuda)	1.2 m	718.9
12	Murraya exotica/paniculata (Kamini)	1.2 m	718.9
13	Glochidion ellipticum (Bhoma)	1.2 m	718.9
14	Nerium indicum (Kaner)	1.2 m	718.9
15	Plumeria acutifolia/ alba (Frangipani)	2.5 m	718.9
16	Caryataurens (Fishtail)	2.5 m	718.9
17	Phoenix sylvestris (Khajur)	2.5 m	718.9
18	Michelia alba (White champa)	2.5 m	718.9
19	Woodfordia fruticosa (Dhayati)	0.9 m	718.9
20	Carissa congesta (Karvanda)	0.9 m	718.9
21	Leea indica (Dinda)	0.6 m	-
22	Clerodendron inerme (Koynel)	0.6 m	-
23	Rhapis humilis	0.6 m	-
24	Ixora coccinea (Rugmini)	0.45 m	-
25	Dracaena reflexa (Song of India)	0.45 m	-

  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 43 of 50**

**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

26	Eranthemum nigrum	0.45 m	-
27	Barleria cristata	0.45 m	-
28	Stachytarpheta indica	0.45 m	-
29	Pseuderanthemumreti culatum	0.45 m	-

### 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	<b>During Construction Phase: (Demand Load)</b>	5 MVA
	<b>DG set as Power back-up during construction phase</b>	5 MVA
	<b>During Operation phase (Connected load):</b>	3,42,916 kW
	<b>During Operation phase (Demand load):</b>	1,58,913 kW
	<b>Transformer:</b>	200 kVA - 3 Number, 315 kVA - 1 Number, 500 kVA - 1 Number, 630 kVA - 166 Number, 1000 kVA - 37 Number, 1250 kVA - 14 Number
	<b>DG set as Power back-up during operation phase:</b>	126 Nos. (Ranging from 15 kVA to 1000 kVA)
	<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:

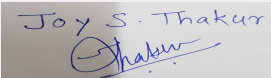
Total Energy Requirement - 3,81,46,320 kWh,  
Maximum savings due to Use of LED - 3,35,472 kWh,  
Maximum saving due to Solar Water Heating system - 40,97,190 kWh,  
Maximum saving due to conversion of biogas to electricity - 78,948 kWh,  
Total Energy Saving - 45,11,610 kWh,  
Thus, Percentage Saving : 11.82%

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

Serial Number	Energy Conservation Measures	Saving %
1	Maximum savings due to Use of LED	335472 kWh
2	Maximum savings due to Solar Water Heating System	4097190 kWh
3	Maximum savings due to conversion of biogas to electricity	78948 kWh

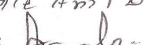
### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not Available	Total Capacity of STP - 26110 m3/day
Biodegradable Waste	Not Available	Biogas plant capacity - 5 T; Vermicompost - 60 beds of Size - 15 x 5 F
Dust	Not Available	STP Treated Water - 437 m3/day

  
**Joy S. Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 44 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	812.60 Cr
	<b>O &amp; M cost:</b>	24 Cr

## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	STP Cost	Civil and Equipment Cost along with Operation and Maintenance Cost	115
2	Mobile Toilets	100 Number of Mobile Toilets on rent monthly basis	84

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	8130	1440
2	Rain water harvesting	Ground Water Recharge	105	10
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil		83.82
4	Solar System	For Hot Water	3551	2.25
5	Gardening (Including Transplantation)	Green Belt Development	6311.85	420.79
6	Solid Waste	Solid Waste Management	250	10.2
7	Water Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	1260	331
8	Disaster Management	contegency	5106	3766

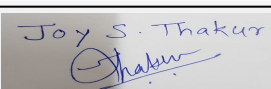
## 51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Diesel	inflammable	Not applicable	As required	450 L/day	13500 L/month	Local Supplier	Local Supplier

### 52.Any Other Information

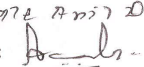
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### 53.Traffic Management

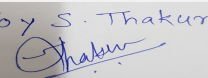
  
Joy S.Thakur (Secretary  
SEAC-III)

**SEAC Meeting No: 76 Meeting Date: November  
15, 2018**

Page 45  
of 50

Name: K. Anil Kale  
Signature:   
Shri. Anil Kale (Chairman  
SEAC-III)

	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	Multiple
<b>Parking details:</b>	<b>Number and area of basement:</b>	NA
	<b>Number and area of podia:</b>	Multiple, Approximately about 8,94,402 m2
	<b>Total Parking area:</b>	614446.61 m2
	<b>Area per car:</b>	12.5 m2 excluding driveway, 25 m2 including driveway
	<b>Area per car:</b>	12.5 m2 excluding driveway, 25 m2 including driveway
	<b>Number of 2-Wheelers as approved by competent authority:</b>	104141
	<b>Number of 4-Wheelers as approved by competent authority:</b>	26661
	<b>Public Transport:</b>	Local Municipal bus services on main road (NH65), Local train service from Loni railway station to city
	<b>Width of all Internal roads (m):</b>	9m, 12m, 15m, 18 m, 24 m, 30 m (varies)
	<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>	8 (b)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	NA
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-
<b>SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS</b>		

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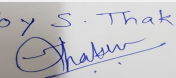
**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 46 of 50**

**Name: K. Anil Kale**  
  
**Signature: Shri. Anil Kale (Chairman SEAC-III)**

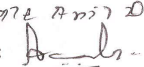


<p><b>Environmental Impacts of the project</b></p>	<p>i) Land Environment : Due to project development environment impact on land may be observed due to incremental runoff, soil erosion due to unattended disturbed land mass, poor construction practices, loss of vegetation and poor waste (solid/liquid) management during both phases. However, to reduce the envisaged negative impact environment mitigation measures are proposed. ii) Air Environment: Proposed project involves construction activities which may contribute to the higher emission of fugitive dusts; Operation phase will see peak influx of vehicles and use of emergency DG sets are likely to generate air emissions, mainly SPM, CO, &amp; NOx. This may cause overall increase in the Air Quality Index which may affect the habitable population. However, the envisaged impact will be minimal. iii) Noise Environment : Most of the sources of noise are only going to be present at the project site during the construction phase. Construction machinery most commonly used for building construction project are the major sources of noise. Simultaneous use of high noise generating equipment may induce some distress among construction workers and nearby settlements. Also during operation phase influx in population, peak hour vehicular movement and use of emergency DG sets will be main source contributors to increase ambient noise levels. However, the overall source contribution will not have much influence over habitants. iv) Water Environment : Fluctuating water demand during construction phase can cause distress among construction workers. The major pollution impact can be envisaged on nearby river and ground water due to contribution of improper waste water disposal by construction labour and staff. During project development improper channelling of runoff off site can cause water logging, creating unsanitary conditions and mosquito breeding spots. During operation phase inefficient functioning of STP can cause stress on meeting water demand of project &amp; problem of managing waste water. Water-borne diseases may appear if sub-standard treated water is supplied and can also contribute to soil contamination if such water is used for meeting the water demand for landscaping. However, the envisaged impact will be minimized by proposed measures. v) Biological Environment: During construction, certain trees and shrubs will also be removed, resulting in deterioration in the vegetative component of biodiversity. Total 260 trees will be cut. Particulate matter in the form of dust arising from constructional activities may affect the biological activities of plants and animals temporarily. Nocturnal insects maybe affected by light pollution due to project development. Use of untreated or sub-standard treated water can leach and contribute to the deterioration of the water quality of the abutting and ground water aquifer. However, the envisaged impacts will be minimized by proposed landscape development plan. vi) Socio Economic Environment : From the socio economic point of view the proposed project will have majorly positive impact as development shall generate number of jobs and business setting opportunities. As it is a joint venture development the farmers shall be stakeholder of their land and benefit in direct proportions. There would be up-gradation of existing local infrastructure, where there would be improvement of access due to widening of the main road and improvement of transport services in the surrounding villages of the project. Also various institutes like schools and hospital will be developed to for better medical and education opportunities. There will be skill development campaigns undertaken by township management to help in promoting local people for livelihood commensurate with their will. Overall better living conditions with sound management systems will help achieve sustainability and safeguard site aesthetics.</p>
<p><b>Water Budget</b></p>	<p>The proposed project will house for 1000 workers during construction phase out of total work force of 1300 workers. Water budget during construction phase is as follows: Domestic water requirement is 83.5 m3/day and estimated sewage generated is 75 m3/day. Sewage will be treated in STP having Moving Bed Bio Reactor (MBBR) technology and treated water reused for construction works &amp; for dust control measures. During project operation phase the estimated population is 254425. One time initial Total water requirement is 41,169 m3/day, after first cycle the Daily Project Water budget is as follows: Domestic (Raw) water requirement : 17,713 m3/day, Flushing water requirement : 9,901 m3/day (Treated water) Gardening water requirement : 2,728 m3/day (Treated water) HVAC requirement : 10,390 m3/day (Treated water) Dust suppression : 437 m3/day (Treated water) Excess Treated Water : 152 m3/day Excess treated water generated from project will be given to nearby farmers with whom proponent has done agreement for use of excess treated water on the farmlands for irrigation purpose.</p>
<p><b>Waste Water Treatment</b></p>	<p>The raw water will be treated in a Water Treatment Plant (WTP) of cumulative capacity 18 MLD (3 Module x 6 MLD) and parameters will be maintained as per IS10500-2012 The cumulative Sewage Treatment Plant (STP) treatment capacity is 26110 m3/day. Technology proposed is Membrane Bio Reactor (MBR). The STP's are set in modules and increase as per phase development. Outlet parameters will be maintained as per EP Act Schedule-IV discharge standards, CPCB.</p>

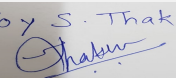
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 47 of 50**

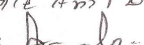
**Name:** K. Anil Kale  
**Signature:**   
**Shri. Anil Kale (Chairman SEAC-III)**

<b>Drainage pattern of the project</b>	Site has dendritic drainage patterns. The project site is slightly contoured hence excess overburdens will not be observed over the span of development. There is no alteration in drainage pattern of the project site and adequate sized storm water channel is proposed to be developed to avoid water logging at site. All development will be carried out as per the PMRDA and irrigation department guidelines.
<b>Ground water parameters</b>	Ground water sampling was done to further establish the baseline characteristics and to assess the anticipated impacts due to project. The parameters selected for analysis of ground water are based on the guidelines given by CPCB. Ground water samples were analysed and were within the acceptable limits as per Drinking water standards IS10500:2012, except coliform at few location due to inadequate sanitary infrastructure available at project site.
<b>Solid Waste Management</b>	Total Waste generation: 99831 Kg/day. Biodegradable 62662 Kg/day and Non-biodegradable: 37169 Kg/day. Biodegradable treated in Biogas Plant. Non-biodegradable shall be handed over to authorized recycler. Biomedical, E-waste, Hazardous waste will be handed over to authorized agency for disposal. The proposed space allocation for solid waste management is 6861 sq. m All waste streams will be separated as per Solid Waste Management and Handling Rules 2016 and no solid waste stream will be left unattended.
<b>Air Quality &amp; Noise Level issues</b>	The project estimated to complete in 15yrs. On completion, it will accommodate 26,436 cars, 103,781 two wheeler and equal no of bicycle parking spaces within the premises. Also total 126 number of DG sets ranging from 15 -1000 KVA are proposed to be installed. D.G sets will be used in case of failure of electricity only. i) Air Pollution Prediction Study: Present traffic conditions, during construction (7yr and 15yr) and post construction phase were considered to interpret forecasted Air Quality Issues. Dust generation and its dispersion has been found to be a major concern in air quality modelling of construction activity that requires monitoring, protection and control of air pollution for sustainable development of construction sectors. Modelled pollutant concentrations show that all pollutant levels were found to be within prescribed limits during construction phase. Future scenario analysis i.e. during operations phase illustrates that pollutant concentrations also to be within prescribed standards, thus project have no implication in overall air quality. ii) Noise Level Prediction Study: Noise can affect human health and behaviour. Baseline noise data of the project area and the neighbourhood habitat areas was ascertained to establish existing conditions of ambient noise in the project site. Nearest settlements beyond project boundary were seen to be at a distance of 200m. Equivalent Noise levels (Leq.) are within the noise level standards prescribed by CPCB at all baseline monitoring stations. Prediction study was done using statistical equations to considering various construction machineries engaged in project development activities. During operation phase prediction studies were done considering vehicular movement, use of DG sets and utility equipment's. Through statistical calculations study it was observed that 1.4 dB(A) increase is predicted where the existing nearest human settlement is observed due to project activity but overall noise levels are within the noise level standards prescribed by CPCB for residential zone.
<b>Energy Management</b>	The power requirement for the proposed township is calculated based on the guidelines issued by MSEDCL through the circular CE(Dist)/D-III/Req.of Land/28792 dated 17.07.2015 Source of power would be from MSEDCL. The proposed project will require a Connect Load of 3,42,916 kW and estimated Maximum Demand of 1,58,943 kW. 126 Nos. of DG sets shall be provided and same will be used at the time of power failure. Energy saving are proposed to be achieved by installation of LED attachment, solar PV plant (18599 KW) and solar water heater installation. Total Energy savings achieved 17% of demand load. All building types are ECBC complied.
<b>Traffic circulation system and risk assessment</b>	The project traffic has been forecasted for year 2020 and 2030; this has been superimposed along with existing projected traffic to arrive at future traffic for year 2020 and 2030 considering 5% vehicular growth rate. The future level of service (LOS) will have stable flow. All road hierarchy is kept as arterial, sub-arterial street collector and local streets as per UDPFI guidelines. Swept Path analysis yielded that road geometry was adequate for vehicle turning maneuvers. Traffic calming measures and traffic control measures has been devised and proposed to maintain adequate level of service and safety of vehicles and pedestrian.
<b>Landscape Plan</b>	Baseline data indicated there are no endemic and endangered flora fauna species seen at the proposed project site. The span of project development will lead to 1138 trees will be retained, 738 trees will be transplanted to the demarcated locations and 260 trees will be cut. For each tree cut, 3 additional trees shall be planted. The landscape plan has been devised to cover an area of 420790.20 m2 (20% of plot) as greenbelt on ground, plantation of 32525 nos. of trees is proposed. All trees, shrubs and climbers selected are native. Fruit bearing trees proposed to be planted along the abutting river.

Joy S. Thakur  
  
**Joy S.Thakur (Secretary SEAC-III)**

**SEAC Meeting No: 76 Meeting Date: November 15, 2018**

**Page 48 of 50**

**Name:** K. Anil Kale  
  
**Signature:**  
**Shri. Anil Kale (Chairman SEAC-III)**



<b>Disaster management system and risk assessment</b>	<p>The Disaster Management team will handle emergency situation envisaged on site through well drilled preparedness procedures. Objective will be to safely maneuverer habitants to assembly points during evacuation through devised route of evacuation marked on the plans. Emergency Preparedness Plan Onsite and Offsite are developed to ensure operational safety. Specific reference is given to the three components i.e. the fire protection measures, flood prevention measures and earthquake resistance of the buildings. The Emergency Response Plan (ERP) shall be practiced to make use of the combined resources at the site and outside services to achieve the following:-</p> <ul style="list-style-type: none"> <li>• Localize the emergency</li> <li>• Minimize effects on property and people</li> <li>• Effective rescue and medical treatment</li> <li>• Evacuation</li> </ul> <p>The site falls in seismic zone III and all building are designed as per IS code considering the same. The site is not notified to have a potential threat by other natural calamity as per NDMA published maps.</p>
<b>Socioeconomic impact assessment</b>	<p>Growth in direct/indirect employment at various skill levels and business opportunities to the local and nearby people such as contractors, transporters and raw material suppliers etc., Improvement in standard of living due to availability of advance infrastructure like sustainable clean water supply, transport network, health facilities, education institutions and affordable modernized housing establishments. Site development and local upliftment will be targeted through allotment of CER funds for improvement in abutting project river stretch, promotion of eco-goods, afforestation on nearby land and local skill development through centres and awareness campaigning.</p>
<b>Environmental Management Plan</b>	<p>Satisfactory.</p>
<b>Any other issues related to environmental sustainability</b>	<p>To ensure environment sustainability it is important to adhere to the environment management plan (EMP) &amp; regular monitor the ambient environment conditions. All environment components to be monitored in good faith and reported timely through appointment of third party MoEF&amp;CC/NABL approved laboratory. If any anomalies are observed or reported, town management/Environment Management Cell (EMC) should ensure effective measures to curb the same at the earliest and redraft environment management policy depicting continual improvement. The EMC will be led by the Directory of Riverview City and helm of experts for various functions. Investment towards Environment Management system is INR. 247.1385 Crore and Operation and Maintenance cost bared is INR. 60.2406 Crore /year. All future and locals habitants within the site premises to be made aware of available waste management infrastructure and enforce clean living targets. This includes the following aspects to be provided by developer:</p> <ul style="list-style-type: none"> <li>• To provide community bins for storage of waste for onward transfer</li> <li>• To clean all public streets and open public places</li> <li>• To transport stored waste to central storage &amp; treatment depot</li> <li>• To arrange for processing of wet biodegradable waste through processing plant</li> <li>• Pursue not to deposit building rubbish to other type of waste</li> <li>• Pursue to provide necessary infrastructure for waste management</li> <li>• Adequate signage's and waste manual to be given to every tenant</li> <li>• Arrange for awareness development programs Compliance to support &amp; awareness building target among future habitants shall ensure project environment sustainability.</li> </ul>
<b>Brief information of the project by SEAC</b>	
<p>PP submitted their application for modernization of earlier Environmental clearance for total plot area of 2103951.00 m<sup>2</sup>, BUA of 5793958 m<sup>2</sup> and FSI area of 3898837 m<sup>2</sup>. PP proposes to construct 160 no. residential buildings+19 commercial buildings +135 bungalows +1 hundred bed hospital+ 3 school buildings+ 3 amenity buildings+ biogas plant + EHV substation+ police station + SWM plant + bus station+ 4 HV substation + 4 STP+ Fire brigade station + WTP.</p> <p>The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(b)B1.</p>	
<b>DECISION OF SEAC</b>	

 <b>Joy S.Thakur (Secretary SEAC-III)</b>	<b>SEAC Meeting No: 76 Meeting Date: November 15, 2018</b>	<b>Page 49 of 50</b>	<b>Name: K. Anil Kale</b>  <b>Signature: Shri. Anil Kale (Chairman SEAC-III)</b>
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The PP has satisfactorily addressed the points raised in previous meetings. SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the following conditions.

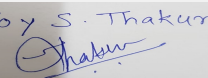
**Specific Conditions by SEAC:**

1) PP to submit details of revised CER activities including newly proposed activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018. With details of fund utilization & agreement or consent of executor.

**FINAL RECOMMENDATION**

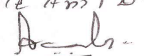
SEAC-III have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

SEAC-AGENDA-00000000165

Joy S. Thakur  
  
Joy S. Thakur (Secretary  
SEAC-III)

SEAC Meeting No: 76 Meeting Date: November  
15, 2018

Page 50  
of 50

Name: K. Anil Kale  
Signature:   
Shri. Anil Kale (Chairman  
SEAC-III)