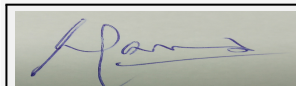


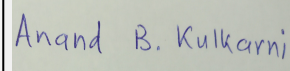
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
Subject: Environment Clearance for Construction of New bridge across Varsova Creek along NH-8			
General Information: SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	Rehabilitation and Expansion of NH-8 from km 496+100 to km 498+350 ?Construction of New bridge across Varsova Creek along NH-8		
2.Type of institution	Government		
3.Name of Project Proponent	National Highways Authority of India		
4.Name of Consultant	M/s Intercontinental Consultants and Technocrats Pvt. Ltd.		
5.Type of project	Others		
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	Proposed Bridge will be constructed on Versova creek on Ulhas river near Ghodbunder on NH-8 in the state of Maharashtra		
9.Taluka	Thane & Vasai		
10.Village	Varsova village & Sasunavgarh village		
11.Area of the project	in Mira Bhayandar and Vasai Virar Municipal Corporation, Maharashtra.		
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:		
13.Note on the initiated work (If applicable)	Not applicable		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable		
15.Total Plot Area (sq. m.)	Not applicable		
16.Deductions	Not applicable		
17.Net Plot area	Not applicable		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.): Not applicable		
19.Total ground coverage (m2)	Not applicable		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable		
21.Estimated cost of the project	2470200000		
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not Applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		



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<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>	Approach Road 60 to 78 m; Interchange - 115 m ; Bridge - 18 m
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Not applicable
<b>29.Existing structure (s) if any</b>	No existing structures on Right of Way
<b>30.Details of the demolition with disposal (If applicable)</b>	No demolition involved

### 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

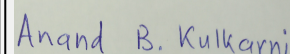
Dry season:	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not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



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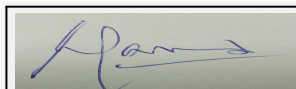
<b>Wet season:</b>	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>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

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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>	Not Applicable
	<b>Size and no of RWH tank(s) and Quantity:</b>	Not Applicable
	<b>Location of the RWH tank(s):</b>	Not Applicable
	<b>Quantity of recharge pits:</b>	Not Applicable
	<b>Size of recharge pits :</b>	Not Applicable
	<b>Budgetary allocation (Capital cost) :</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost) :</b>	Not Applicable
	<b>Details of UGT tanks if any :</b>	Not Applicable

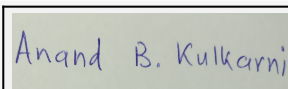
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Please refer Section-3.4.3 Drainage Pattern of Chapter-3 of EIA Report
	<b>Quantity of storm water:</b>	Not Applicable
	<b>Size of SWD:</b>	Not Applicable



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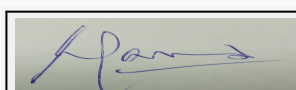
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Estimated Sewage generation is 3.6 KLD from the labour camp
	<b>STP technology:</b>	? Sewage from labour camp shall be treated in packaged sewage treatment plant or septic tank. 3.24 KLD of treated water can be reused for flushing, washing etc.
	<b>Capacity of STP (CMD):</b>	Not Applicable
	<b>Location &amp; area of the STP:</b>	Construction Camp
	<b>Budgetary allocation (Capital cost):</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not Applicable

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Municipal solid waste of 20 kg/day is likely to be generated from the construction camp of 100 labours @200 grams per capita
	<b>Disposal of the construction waste debris:</b>	Approved dumping Area
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Not Applicable
	<b>Wet waste:</b>	Not Applicable
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Not Applicable
	<b>Wet waste:</b>	Not Applicable
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Not Applicable
	<b>Area for the storage of waste &amp; other material:</b>	Not Applicable
	<b>Area for machinery:</b>	Not Applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Not Applicable
	<b>O &amp; M cost:</b>	Not Applicable

### 37.Effluent Charecterestics

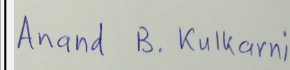
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



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Amount of effluent generation (CMD):	Not Applicable
Capacity of the ETP:	Not Applicable
Amount of treated effluent recycled :	Not Applicable
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Not Applicable
Disposal of the ETP sludge	Not Applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable

41.Source of Fuel

Not Applicable

42.Mode of Transportation of fuel to site

Not Applicable

### 43.Green Belt Development

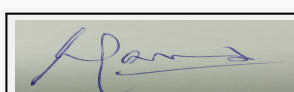
<b>Total RG area :</b>	576 trees are proposed to be planted in available vacant spaces. Total green area proposed is 18839.335 sq.m out of which grass turfing is proposed on embankment slopes which is 10263.295 sq.m. The green belt area is 8576.04 sq.m, tree. Plantation plan is enclosed as Annexure 4.1. of EIA Report
<b>No of trees to be cut :</b>	5 trees located in the ROW will be felled
<b>Number of trees to be planted :</b>	576 trees are proposed to be planted
<b>List of proposed native trees :</b>	Fast growing native species will be planted. Species will be finalized in consultation with the State Forest Department
<b>Timeline for completion of plantation :</b>	2 years (within the construction period)

### 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	Not Applicable	Not Applicable	Not Applicable	Not Applicable

45.Total quantity of plants on ground

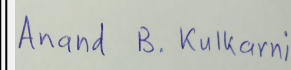
### 46.Number and list of shrubs and bushes species to be planted in the podium RG:



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

## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	The power supply is proposed to be sourced from Maharashtra State Electricity Distribution Company Ltd.
	<b>During Construction Phase: (Demand Load)</b>	Not Applicable
	<b>DG set as Power back-up during construction phase</b>	yes
	<b>During Operation phase (Connected load):</b>	Not Applicable
	<b>During Operation phase (Demand load):</b>	Not Applicable
	<b>Transformer:</b>	Not Applicable
	<b>DG set as Power back-up during operation phase:</b>	Not Applicable
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	Not Applicable

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

Not Applicable

## 49. Detail calculations & % of saving:

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

## 50. Details of pollution control Systems

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

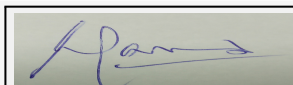
**Budgetary allocation (Capital cost and O&M cost):**

<b>Capital cost:</b>	Not Applicable
<b>O &amp; M cost:</b>	Not Applicable

## 51. Environmental Management plan Budgetary Allocation

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

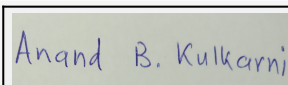
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mitigation Cost	Environment	1631500
2	Monitoring Cost	Environment	252000
3	Training and Environmental Awareness	Environment	200000



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4	Disaster Management Plan	Environment	1000000
5	Mangrove Conservation Program	Mangrove Conservation	250000

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Monitoring Cost	Environment	1204000	Not Applicable

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

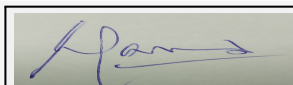
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**52.Any Other Information**

No Information Available

**53.Traffic Management**

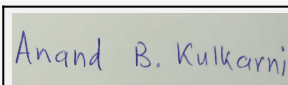
	Nos. of the junction to the main road & design of confluence:	Thane-Ghodbunder junction
Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Application submitted for CRZ Clearance



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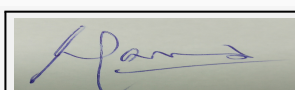
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Sanjay Gandhi National Park is located within 15 kms of proposed project location boundary. The nearest distance is 65 m from Chainage 497+700
	<b>Category as per schedule of EIA Notification sheet</b>	Not Applicable
	<b>Court cases pending if any</b>	None
	<b>Other Relevant Informations</b>	CRZ area : 1.8525 ha CRZ IA: 0.9708 ha CRZ III: 0.1755 ha CRZ IV: 0.7062 ha
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

### Brief information of the project by SEAC

National Highways Authority of India has proposed to construct new 4 lane bridge across Versova creek on river ulhas along NH-8 near Thane-Ghodbunder Road. Proposed improvement of the project alignment starts at Km 496 + 100 in surat side on NH-8 and ends at Km 498+350 in Mumbai side totaling to a length of 2.25 km. Total length includes proposed bridge of 917.87 m (approx) and both approaches of 1.33 km. National Center for Sustainable Coastal Management, Chennai has prepared CRZ map in the 1:4000 scale and report, as per which, proposed new bridge is passing through CRZ-IA, CRZ-IB, CRZ-III and CRZ-IVB. Mangroves which are CRZ-IA are present at the bank of the creek and adjacent areas.

The Authority noted that the PP has submitted the EIA report prepared by M/s. Intercontinental Consultants and Technocrats Pvt. Ltd. The brief EIA report is as follows: The CRZ area directly impacted due to the construction of piers and abutments of the proposed new bridge and construction of the interchange is 0.6038 ha. Total 0.6038 ha area will be directly impacted due to construction out of which 0.0523 ha is Mangrove area. The mangroves species present at the site are Avicennia marina, Bruguiera cylindrica and Acanthus ilicifolius. Adequate measures shall be taken to minimize impact in CRZ area. Adequate measures shall be taken to reduce turbidity of water body during construction. Implementing sediment and erosion controls during construction will minimize adverse impact of water bodies. Construction activity will be avoided near water bodies during rainy season. Proper care will be taken to avoid discharge of chemicals/oil into or near the water body or mangroves. Oil receptors shall be provided near oil filling/storage site. Contingency plan for controlling and managing an oil spill is given in the chapter 7, Disaster Management Plan. Water will not be taken from the Creek for construction purpose. Ground water shall not be extracted for construction purpose within the CRZ limits. Five times the number of mangroves cut during the construction process shall be replanted under mangrove compensatory plantation as per the extant norms. The budget for the same shall be provided separately as per the demand received from Forest Department. Mangrove conservation program shall be carried in consultation with the Forest department in project area. Fund of Rs.2.5 lakh has been earmarked for mangrove conservation program. No construction camps shall be located in CRZ areas. Construction camps shall be located beyond 2500 m from the mangroves.

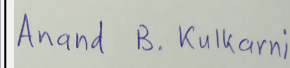
### DECISION OF SEAC



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**After detailed deliberation and discussion the Authority decided to recommend the proposal from CRZ point of view to SEIAA subject to compliance of following conditions:**

1. PP should ensure that proposed activities in CRZ areas are as per provisions of CRZ Notification, 2011 (amended time to time).
2. PP to ensure that tidal flow of the coastal water bodies should not be hampered due to proposed expansion of NH 8.
3. No reclamation of coastal water bodies is allowed.
4. PP to ensure that proper disaster management plans is in place for the proposed activities.
5. PP should restore the site after completion of the proposed activities.
6. PP should carry out compensatory mangrove replantation and submit the plan.
7. PP should obtain prior permission from Mumbai High Court for cutting of mangrove.
8. PP to implement the Environment Management Plan & recommendations of EIA during implementation and operation phase of the project.
9. PP should obtain the permission from Forest Department, if applicable.
10. All other required permissions should be obtained before the commencement of the project.

**Specific Conditions by SEAC:**

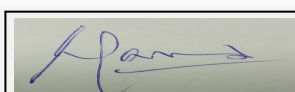
## **SEIAA DECISION**

The PP states that they have applied for mangrove clearance. The SEIAA noted that the CAT has represented against this project on the grounds of mangrove destruction. The PP was advised to obtain clearance from the mangrove cell before approaching the SEIAA for EC

**Specific Conditions by SEIAA:**

## **FINAL RECOMMENDATION**

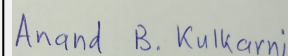
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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(Member Secretary SEIAA)

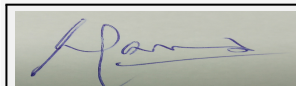
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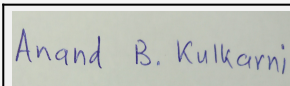
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
Subject: Environment Clearance for Construction of New bridge across Varsova Creek along NH-8			
General Information: SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	Rehabilitation and Expansion of NH-8 from km 496+100 to km 498+350 ?Construction of New bridge across Varsova Creek along NH-8		
2.Type of institution	Government		
3.Name of Project Proponent	National Highways Authority of India		
4.Name of Consultant	M/s Intercontinental Consultants and Technocrats Pvt. Ltd.		
5.Type of project	Others		
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	Proposed Bridge will be constructed on Versova creek on Ulhas river near Ghodbunder on NH-8 in the state of Maharashtra		
9.Taluka	Thane & Vasai		
10.Village	Varsova village & Sasunavgarh village		
11.Area of the project	in Mira Bhayandar and Vasai Virar Municipal Corporation, Maharashtra.		
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:		
13.Note on the initiated work (If applicable)	Not applicable		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable		
15.Total Plot Area (sq. m.)	Not applicable		
16.Deductions	Not applicable		
17.Net Plot area	Not applicable		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.): Not applicable		
19.Total ground coverage (m2)	Not applicable		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable		
21.Estimated cost of the project	2470200000		
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not Applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		



**Shri Satish.M.Gavai**  
(Member Secretary SEIAA)

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<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>	Approach Road 60 to 78 m; Interchange - 115 m ; Bridge - 18 m
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Not applicable
<b>29.Existing structure (s) if any</b>	No existing structures on Right of Way
<b>30.Details of the demolition with disposal (If applicable)</b>	No demolition involved

### 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

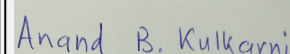
Dry season:	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not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



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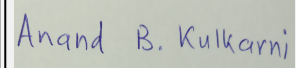
<b>Wet season:</b>	<b>Source of water</b>	Not applicable								
	<b>Fresh water (CMD):</b>	Not applicable								
	<b>Recycled water - Flushing (CMD):</b>	Not applicable								
	<b>Recycled water - Gardening (CMD):</b>	Not applicable								
	<b>Swimming pool make up (Cum):</b>	Not applicable								
	<b>Total Water Requirement (CMD) :</b>	Not applicable								
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable								
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable								
	<b>Excess treated water</b>	Not applicable								
<b>Details of Swimming pool (If any)</b>		Not applicable								
<b>33.Details of Total water consumed</b>										
<b>Particulars</b>	<b>Consumption (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent (CMD)</b>			
<b>Water Requirement</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	
Domestic	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>	Not Applicable								
	<b>Size and no of RWH tank(s) and Quantity:</b>	Not Applicable								
	<b>Location of the RWH tank(s):</b>	Not Applicable								
	<b>Quantity of recharge pits:</b>	Not Applicable								
	<b>Size of recharge pits :</b>	Not Applicable								
	<b>Budgetary allocation (Capital cost) :</b>	Not Applicable								
	<b>Budgetary allocation (O &amp; M cost) :</b>	Not Applicable								
	<b>Details of UGT tanks if any :</b>	Not Applicable								
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Please refer Section-3.4.3 Drainage Pattern of Chapter-3 of EIA Report								
	<b>Quantity of storm water:</b>	Not Applicable								
	<b>Size of SWD:</b>	Not Applicable								



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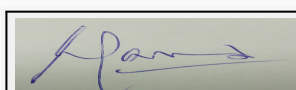
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Estimated Sewage generation is 3.6 KLD from the labour camp
	<b>STP technology:</b>	? Sewage from labour camp shall be treated in packaged sewage treatment plant or septic tank. 3.24 KLD of treated water can be reused for flushing, washing etc.
	<b>Capacity of STP (CMD):</b>	Not Applicable
	<b>Location &amp; area of the STP:</b>	Construction Camp
	<b>Budgetary allocation (Capital cost):</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not Applicable

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Municipal solid waste of 20 kg/day is likely to be generated from the construction camp of 100 labours @200 grams per capita
	<b>Disposal of the construction waste debris:</b>	Approved dumping Area
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Not Applicable
	<b>Wet waste:</b>	Not Applicable
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Not Applicable
	<b>Wet waste:</b>	Not Applicable
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Not Applicable
	<b>Area for the storage of waste &amp; other material:</b>	Not Applicable
	<b>Area for machinery:</b>	Not Applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Not Applicable
	<b>O &amp; M cost:</b>	Not Applicable

### 37.Effluent Charecterestics

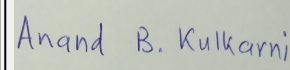
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



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Amount of effluent generation (CMD):	Not Applicable
Capacity of the ETP:	Not Applicable
Amount of treated effluent recycled :	Not Applicable
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Not Applicable
Disposal of the ETP sludge	Not Applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable

41.Source of Fuel

Not Applicable

42.Mode of Transportation of fuel to site

Not Applicable

### 43.Green Belt Development

<b>Total RG area :</b>	576 trees are proposed to be planted in available vacant spaces. Total green area proposed is 18839.335 sq.m out of which grass turfing is proposed on embankment slopes which is 10263.295 sq.m. The green belt area is 8576.04 sq.m, tree. Plantation plan is enclosed as Annexure 4.1. of EIA Report
<b>No of trees to be cut :</b>	5 trees located in the ROW will be felled
<b>Number of trees to be planted :</b>	576 trees are proposed to be planted
<b>List of proposed native trees :</b>	Fast growing native species will be planted. Species will be finalized in consultation with the State Forest Department
<b>Timeline for completion of plantation :</b>	2 years (within the construction period)

### 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	Not Applicable	Not Applicable	Not Applicable	Not Applicable

45.Total quantity of plants on ground

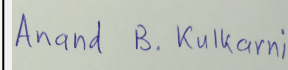
### 46.Number and list of shrubs and bushes species to be planted in the podium RG:



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

## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	The power supply is proposed to be sourced from Maharashtra State Electricity Distribution Company Ltd.
	<b>During Construction Phase: (Demand Load)</b>	Not Applicable
	<b>DG set as Power back-up during construction phase</b>	yes
	<b>During Operation phase (Connected load):</b>	Not Applicable
	<b>During Operation phase (Demand load):</b>	Not Applicable
	<b>Transformer:</b>	Not Applicable
	<b>DG set as Power back-up during operation phase:</b>	Not Applicable
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	Not Applicable

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

Not Applicable

## 49. Detail calculations & % of saving:

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

## 50. Details of pollution control Systems

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

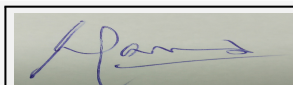
**Budgetary allocation (Capital cost and O&M cost):**

<b>Capital cost:</b>	Not Applicable
<b>O &amp; M cost:</b>	Not Applicable

## 51. Environmental Management plan Budgetary Allocation

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

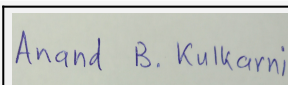
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mitigation Cost	Environment	1631500
2	Monitoring Cost	Environment	252000
3	Training and Environmental Awareness	Environment	200000



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4	Disaster Management Plan	Environment	1000000
5	Mangrove Conservation Program	Mangrove Conservation	250000

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Monitoring Cost	Environment	1204000	Not Applicable

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

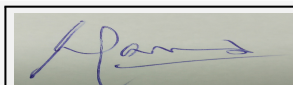
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**52.Any Other Information**

No Information Available

**53.Traffic Management**

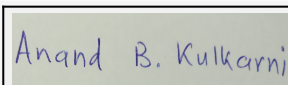
	Nos. of the junction to the main road & design of confluence:	Thane-Ghodbunder junction
Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Application submitted for CRZ Clearance



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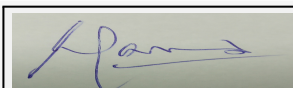
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Sanjay Gandhi National Park is located within 15 kms of proposed project location boundary. The nearest distance is 65 m from Chainage 497+700
	<b>Category as per schedule of EIA Notification sheet</b>	Not Applicable
	<b>Court cases pending if any</b>	None
	<b>Other Relevant Informations</b>	CRZ area : 1.8525 ha CRZ IA: 0.9708 ha CRZ III: 0.1755 ha CRZ IV: 0.7062 ha
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

### Brief information of the project by SEAC

National Highways Authority of India has proposed to construct new 4 lane bridge across Versova creek on river ulhas along NH-8 near Thane-Ghodbunder Road. Proposed improvement of the project alignment starts at Km 496 + 100 in surat side on NH-8 and ends at Km 498+350 in Mumbai side totaling to a length of 2.25 km. Total length includes proposed bridge of 917.87 m (approx) and both approaches of 1.33 km. National Center for Sustainable Coastal Management, Chennai has prepared CRZ map in the 1:4000 scale and report, as per which, proposed new bridge is passing through CRZ-IA, CRZ-IB, CRZ-III and CRZ-IVB. Mangroves which are CRZ-IA are present at the bank of the creek and adjacent areas.

The Authority noted that the PP has submitted the EIA report prepared by M/s. Intercontinental Consultants and Technocrats Pvt. Ltd. The brief EIA report is as follows: The CRZ area directly impacted due to the construction of piers and abutments of the proposed new bridge and construction of the interchange is 0.6038 ha. Total 0.6038 ha area will be directly impacted due to construction out of which 0.0523 ha is Mangrove area. The mangroves species present at the site are Avicennia marina, Bruguiera cylindrica and Acanthus ilicifolius. Adequate measures shall be taken to minimize impact in CRZ area. Adequate measures shall be taken to reduce turbidity of water body during construction. Implementing sediment and erosion controls during construction will minimize adverse impact of water bodies. Construction activity will be avoided near water bodies during rainy season. Proper care will be taken to avoid discharge of chemicals/oil into or near the water body or mangroves. Oil receptors shall be provided near oil filling/storage site. Contingency plan for controlling and managing an oil spill is given in the chapter 7, Disaster Management Plan. Water will not be taken from the Creek for construction purpose. Ground water shall not be extracted for construction purpose within the CRZ limits. Five times the number of mangroves cut during the construction process shall be replanted under mangrove compensatory plantation as per the extant norms. The budget for the same shall be provided separately as per the demand received from Forest Department. Mangrove conservation program shall be carried in consultation with the Forest department in project area. Fund of Rs.2.5 lakh has been earmarked for mangrove conservation program. No construction camps shall be located in CRZ areas. Construction camps shall be located beyond 2500 m from the mangroves.

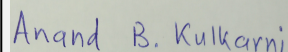
### DECISION OF SEAC



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**After detailed deliberation and discussion the Authority decided to recommend the proposal from CRZ point of view to SEIAA subject to compliance of following conditions:**

1. PP should ensure that proposed activities in CRZ areas are as per provisions of CRZ Notification, 2011 (amended time to time).
2. PP to ensure that tidal flow of the coastal water bodies should not be hampered due to proposed expansion of NH 8.
3. No reclamation of coastal water bodies is allowed.
4. PP to ensure that proper disaster management plans is in place for the proposed activities.
5. PP should restore the site after completion of the proposed activities.
6. PP should carry out compensatory mangrove replantation and submit the plan.
7. PP should obtain prior permission from Mumbai High Court for cutting of mangrove.
8. PP to implement the Environment Management Plan & recommendations of EIA during implementation and operation phase of the project.
9. PP should obtain the permission from Forest Department, if applicable.
10. All other required permissions should be obtained before the commencement of the project.

**Specific Conditions by SEAC:**

## **SEIAA DECISION**

The PP states that they have applied for mangrove clearance. The SEIAA noted that the CAT has represented against this project on the grounds of mangrove destruction. The PP was advised to obtain clearance from the mangrove cell before approaching the SEIAA for EC

**Specific Conditions by SEIAA:**

## **FINAL RECOMMENDATION**

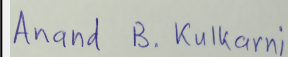
SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days



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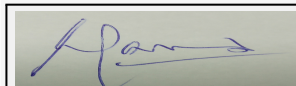
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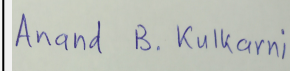
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
Subject: Environment Clearance for Construction of New bridge across Varsova Creek along NH-8			
General Information: SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	Rehabilitation and Expansion of NH-8 from km 496+100 to km 498+350 ?Construction of New bridge across Varsova Creek along NH-8		
2.Type of institution	Government		
3.Name of Project Proponent	National Highways Authority of India		
4.Name of Consultant	M/s Intercontinental Consultants and Technocrats Pvt. Ltd.		
5.Type of project	Others		
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	Proposed Bridge will be constructed on Versova creek on Ulhas river near Ghodbunder on NH-8 in the state of Maharashtra		
9.Taluka	Thane & Vasai		
10.Village	Varsova village & Sasunavgarh village		
11.Area of the project	in Mira Bhayandar and Vasai Virar Municipal Corporation, Maharashtra.		
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:		
13.Note on the initiated work (If applicable)	Not applicable		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable		
15.Total Plot Area (sq. m.)	Not applicable		
16.Deductions	Not applicable		
17.Net Plot area	Not applicable		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.): Not applicable		
19.Total ground coverage (m2)	Not applicable		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable		
21.Estimated cost of the project	2470200000		
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not Applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		



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<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>	Approach Road 60 to 78 m; Interchange - 115 m ; Bridge - 18 m
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Not applicable
<b>29.Existing structure (s) if any</b>	No existing structures on Right of Way
<b>30.Details of the demolition with disposal (If applicable)</b>	No demolition involved

### 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

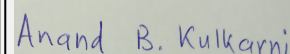
Dry season:	<b>Source of water</b>	Not applicable
	<b>Fresh water (CMD):</b>	Not applicable
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	Not applicable
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	Not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



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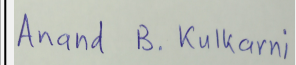
Wet season:	Source of water	Not applicable								
	Fresh water (CMD):	Not applicable								
	Recycled water - Flushing (CMD):	Not applicable								
	Recycled water - Gardening (CMD):	Not applicable								
	Swimming pool make up (Cum):	Not applicable								
	Total Water Requirement (CMD) :	Not applicable								
	Fire fighting - Underground water tank(CMD):	Not applicable								
	Fire fighting - Overhead water tank(CMD):	Not applicable								
	Excess treated water	Not applicable								
Details of Swimming pool (If any)		Not applicable								
<b>33.Details of Total water consumed</b>										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	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>										
	Level of the Ground water table:	Not Applicable								
	Size and no of RWH tank(s) and Quantity:	Not Applicable								
	Location of the RWH tank(s):	Not Applicable								
	Quantity of recharge pits:	Not Applicable								
	Size of recharge pits :	Not Applicable								
	Budgetary allocation (Capital cost) :	Not Applicable								
	Budgetary allocation (O & M cost) :	Not Applicable								
	Details of UGT tanks if any :	Not Applicable								
<b>35.Storm water drainage</b>										
	Natural water drainage pattern:	Please refer Section-3.4.3 Drainage Pattern of Chapter-3 of EIA Report								
	Quantity of storm water:	Not Applicable								
	Size of SWD:	Not Applicable								



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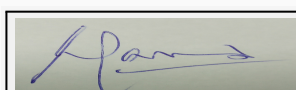
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Estimated Sewage generation is 3.6 KLD from the labour camp
	<b>STP technology:</b>	? Sewage from labour camp shall be treated in packaged sewage treatment plant or septic tank. 3.24 KLD of treated water can be reused for flushing, washing etc.
	<b>Capacity of STP (CMD):</b>	Not Applicable
	<b>Location &amp; area of the STP:</b>	Construction Camp
	<b>Budgetary allocation (Capital cost):</b>	Not Applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not Applicable

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Municipal solid waste of 20 kg/day is likely to be generated from the construction camp of 100 labours @200 grams per capita
	<b>Disposal of the construction waste debris:</b>	Approved dumping Area
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Not Applicable
	<b>Wet waste:</b>	Not Applicable
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Not Applicable
	<b>Wet waste:</b>	Not Applicable
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Not Applicable
	<b>Area for the storage of waste &amp; other material:</b>	Not Applicable
	<b>Area for machinery:</b>	Not Applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Not Applicable
	<b>O &amp; M cost:</b>	Not Applicable

### 37.Effluent Charecterestics

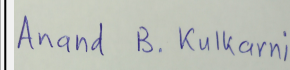
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



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Amount of effluent generation (CMD):	Not Applicable
Capacity of the ETP:	Not Applicable
Amount of treated effluent recycled :	Not Applicable
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Not Applicable
Disposal of the ETP sludge	Not Applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable

41.Source of Fuel

Not Applicable

42.Mode of Transportation of fuel to site

Not Applicable

### 43.Green Belt Development

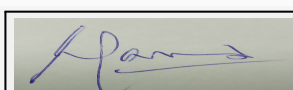
<b>Total RG area :</b>	576 trees are proposed to be planted in available vacant spaces. Total green area proposed is 18839.335 sq.m out of which grass turfing is proposed on embankment slopes which is 10263.295 sq.m. The green belt area is 8576.04 sq.m, tree. Plantation plan is enclosed as Annexure 4.1. of EIA Report
<b>No of trees to be cut :</b>	5 trees located in the ROW will be felled
<b>Number of trees to be planted :</b>	576 trees are proposed to be planted
<b>List of proposed native trees :</b>	Fast growing native species will be planted. Species will be finalized in consultation with the State Forest Department
<b>Timeline for completion of plantation :</b>	2 years (within the construction period)

### 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	Not Applicable	Not Applicable	Not Applicable	Not Applicable

45.Total quantity of plants on ground

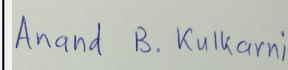
### 46.Number and list of shrubs and bushes species to be planted in the podium RG:



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

## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	The power supply is proposed to be sourced from Maharashtra State Electricity Distribution Company Ltd.
	<b>During Construction Phase: (Demand Load)</b>	Not Applicable
	<b>DG set as Power back-up during construction phase</b>	yes
	<b>During Operation phase (Connected load):</b>	Not Applicable
	<b>During Operation phase (Demand load):</b>	Not Applicable
	<b>Transformer:</b>	Not Applicable
	<b>DG set as Power back-up during operation phase:</b>	Not Applicable
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	Not Applicable

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

Not Applicable

## 49. Detail calculations & % of saving:

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

## 50. Details of pollution control Systems

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

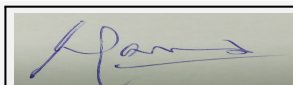
**Budgetary allocation (Capital cost and O&M cost):**

<b>Capital cost:</b>	Not Applicable
<b>O &amp; M cost:</b>	Not Applicable

## 51. Environmental Management plan Budgetary Allocation

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

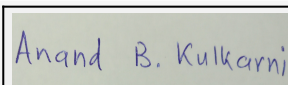
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mitigation Cost	Environment	1631500
2	Monitoring Cost	Environment	252000
3	Training and Environmental Awareness	Environment	200000



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4	Disaster Management Plan	Environment	1000000
5	Mangrove Conservation Program	Mangrove Conservation	250000

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Monitoring Cost	Environment	1204000	Not Applicable

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

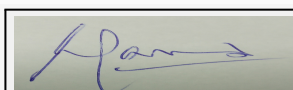
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**52.Any Other Information**

No Information Available

**53.Traffic Management**

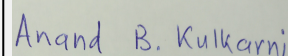
	Nos. of the junction to the main road & design of confluence:	Thane-Ghodbunder junction
Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Application submitted for CRZ Clearance



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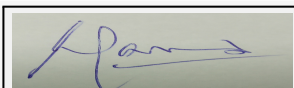
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Sanjay Gandhi National Park is located within 15 kms of proposed project location boundary. The nearest distance is 65 m from Chainage 497+700
	<b>Category as per schedule of EIA Notification sheet</b>	Not Applicable
	<b>Court cases pending if any</b>	None
	<b>Other Relevant Informations</b>	CRZ area : 1.8525 ha CRZ IA: 0.9708 ha CRZ III: 0.1755 ha CRZ IV: 0.7062 ha
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

### Brief information of the project by SEAC

National Highways Authority of India has proposed to construct new 4 lane bridge across Versova creek on river ulhas along NH-8 near Thane-Ghodbunder Road. Proposed improvement of the project alignment starts at Km 496 + 100 in surat side on NH-8 and ends at Km 498+350 in Mumbai side totaling to a length of 2.25 km. Total length includes proposed bridge of 917.87 m (approx) and both approaches of 1.33 km. National Center for Sustainable Coastal Management, Chennai has prepared CRZ map in the 1:4000 scale and report, as per which, proposed new bridge is passing through CRZ-IA, CRZ-IB, CRZ-III and CRZ-IVB. Mangroves which are CRZ-IA are present at the bank of the creek and adjacent areas.

The Authority noted that the PP has submitted the EIA report prepared by M/s. Intercontinental Consultants and Technocrats Pvt. Ltd. The brief EIA report is as follows: The CRZ area directly impacted due to the construction of piers and abutments of the proposed new bridge and construction of the interchange is 0.6038 ha. Total 0.6038 ha area will be directly impacted due to construction out of which 0.0523 ha is Mangrove area. The mangroves species present at the site are Avicennia marina, Bruguiera cylindrica and Acanthus ilicifolius. Adequate measures shall be taken to minimize impact in CRZ area. Adequate measures shall be taken to reduce turbidity of water body during construction. Implementing sediment and erosion controls during construction will minimize adverse impact of water bodies. Construction activity will be avoided near water bodies during rainy season. Proper care will be taken to avoid discharge of chemicals/oil into or near the water body or mangroves. Oil receptors shall be provided near oil filling/storage site. Contingency plan for controlling and managing an oil spill is given in the chapter 7, Disaster Management Plan. Water will not be taken from the Creek for construction purpose. Ground water shall not be extracted for construction purpose within the CRZ limits. Five times the number of mangroves cut during the construction process shall be replanted under mangrove compensatory plantation as per the extant norms. The budget for the same shall be provided separately as per the demand received from Forest Department. Mangrove conservation program shall be carried in consultation with the Forest department in project area. Fund of Rs.2.5 lakh has been earmarked for mangrove conservation program. No construction camps shall be located in CRZ areas. Construction camps shall be located beyond 2500 m from the mangroves.

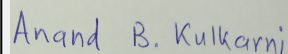
### DECISION OF SEAC



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**After detailed deliberation and discussion the Authority decided to recommend the proposal from CRZ point of view to SEIAA subject to compliance of following conditions:**

1. PP should ensure that proposed activities in CRZ areas are as per provisions of CRZ Notification, 2011 (amended time to time).
2. PP to ensure that tidal flow of the coastal water bodies should not be hampered due to proposed expansion of NH 8.
3. No reclamation of coastal water bodies is allowed.
4. PP to ensure that proper disaster management plans is in place for the proposed activities.
5. PP should restore the site after completion of the proposed activities.
6. PP should carry out compensatory mangrove replantation and submit the plan.
7. PP should obtain prior permission from Mumbai High Court for cutting of mangrove.
8. PP to implement the Environment Management Plan & recommendations of EIA during implementation and operation phase of the project.
9. PP should obtain the permission from Forest Department, if applicable.
10. All other required permissions should be obtained before the commencement of the project.

**Specific Conditions by SEAC:**

## **SEIAA DECISION**

The PP states that they have applied for mangrove clearance. The SEIAA noted that the CAT has represented against this project on the grounds of mangrove destruction. The PP was advised to obtain clearance from the mangrove cell before approaching the SEIAA for EC

**Specific Conditions by SEIAA:**

## **FINAL RECOMMENDATION**

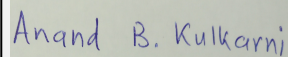
SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days



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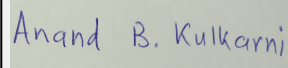
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
Subject: Environment Clearance for Building & Construction Project			
General Information: SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	Sanghvi Golden City		
2.Type of institution	Private		
3.Name of Project Proponent	M/s Sanghvi Premises Pvt Ltd.		
4.Name of Consultant	M/s S G M Corporate Consultant Pvt Ltd		
5.Type of project	Housing Project		
6.New project/expansion in existing project/modernization/diversification in existing project	New		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable		
8.Location of the project	Old S.NO.186/1A (New S.NO.23/1A), Old S.NO.186/1B (New S.NO. 23/1B), Old S.NO.186/2 (New S.NO.23/2), Old S.NO.186/3 (New S.NO.23/3), Old S.NO.278 (New S.NO.24), Old S. NO. 18 (New S. NO. 22 ), Old S. NO. 276 (New S. NO. 25) of Village :-Aatgaon, Tal: Shahapur, Dist: Thane.		
9.Taluka	Shahapur		
10.Village	Aatgaon		
11.Area of the project	Town Planning		
12.IOD/IOA/Concession/Plan Approval Number	Standardised Development Control And Promotion Regulations For Regional Plans In Maharashtra <b>IOD/IOA/Concession/Plan Approval Number:</b> Approval No: NAP/Layout/BP/Mouje: Atgaon/Tal: Shahapur / SS Thane/2655 Dated 22/11/2013 & revised on dated 16/09/2016 <b>Approved Built-up Area:</b> 39392.98		
13.Note on the initiated work (If applicable)	PP had stated construction activities at site .an constructed about 12,366.108 sq.m.		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA		
15.Total Plot Area (sq. m.)	35,620.00		
16.Deductions	2562.077		
17.Net Plot area	28149.230		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 40,732.41 b) Non FSI area (sq. m.): 6179.307 c) Total BUA area (sq. m.): 46911.717		
19.Total ground coverage (m2)	7850		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23		
21.Estimated cost of the project	585000000		
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	12	G+4	14.95
2	07	B+ G+7	23.70
3	CLUB HOUSE	G+1	7.5
23.Number of tenants and shops	Tenements : 823 No?s; Shops: 64 No		



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24.Number of expected residents / users	4115 Nos
25.Tenant density per hectare	300/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	12.00
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

### 31.Production Details

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

### 32.Total Water Requirement

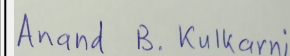
Dry season:	Source of water	GRAM PANCHAYAT
	Fresh water (CMD):	275
	Recycled water - Flushing (CMD):	124
	Recycled water - Gardening (CMD):	21
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	430
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	140



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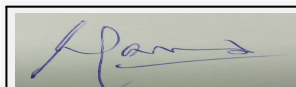
Wet season:	Source of water	GRAM PANCHAYAT
	Fresh water (CMD):	275
	Recycled water - Flushing (CMD):	124
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	409
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	161
Details of Swimming pool (If any)	NA	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	15-20 M
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	25
	Size of recharge pits :	2.5 x 0.5 x 1.0
	Budgetary allocation (Capital cost) :	15 Lac
	Budgetary allocation (O & M cost) :	1.0 Lac
	Details of UGT tanks if any :	Domestic: 88, 83, 240, & Flushing : 44, 41.5, 120

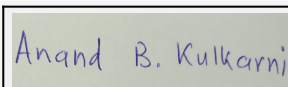
35.Storm water drainage	Natural water drainage pattern:	yes
	Quantity of storm water:	1.04 cum/sec
	Size of SWD:	600 x 350 mm



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<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	327
	<b>STP technology:</b>	Nature based technolgy
	<b>Capacity of STP (CMD):</b>	1
	<b>Location &amp; area of the STP:</b>	Ground
	<b>Budgetary allocation (Capital cost):</b>	45.0 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	3.75 Lacs

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	100-150 kg/day
	<b>Disposal of the construction waste debris:</b>	Low lying area of site/ and making of road
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	660 kg/day
	<b>Wet waste:</b>	940 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	10
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Segregated/Sale/Collected by local authority
	<b>Wet waste:</b>	Composting through OWC & used at site/ Handed over to local as manure
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	USED AS MANURE
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Ground
	<b>Area for the storage of waste &amp; other material:</b>	55.12 sq.m
	<b>Area for machinery:</b>	8 .0 sq.m
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	15.0
	<b>O &amp; M cost:</b>	3.25

### 37.Effluent Charecterestics

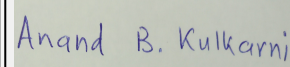
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			



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Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

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

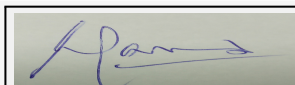
41.Source of Fuel Not applicable

42.Mode of Transportation of fuel to site Not applicable

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	3455.66 sq.m
	<b>No of trees to be cut :</b>	NA
	<b>Number of trees to be planted :</b>	700
	<b>List of proposed native trees :</b>	Enclosed
	<b>Timeline for completion of plantation :</b>	6 months

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

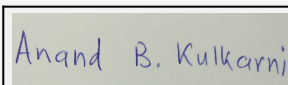
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	50	Native, deciduous, medicinal value
2	Mimusops elengi	Bakul	50	Shady tree for roadside plantation
3	Nyctanthes arbor-tristis	Parijatak	50	Flowery tree, the seeds, leaves and flowers all have medicinal value
4	Lagerstroemia flos-regineae	Tamhan	50	Shady tree for roadside plantation
5	Murraya paniculata	Kunti	50	Shady tree for roadside plantation
6	Saraca asoka	Sita Ashok	100	Large tree,,Bird host plant



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7	Syzigium cumini	Jamun	10	Fruit bearing tree, Large tree, medicinal plant, Bird host plant.
8	Bauhinia racemosa	Apta	50	Large tree,, Bird host plant
9	Azadirachta indica	Neem	75	Shady tree for roadside plantation and has medicinal uses
10	Ficus religiosa	Peepal	10	Large tree,, Bird host plant.
11	Tamarandus Indica	Imli	50	Fruit bearing tree, Large tree, medicinal plant, Bird host plant.
12	Butea monosperma	Palash	100	Flowering tree
<b>45.Total quantity of plants on ground</b>				

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

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

#### 47.Energy

<b>Power requirement:</b>	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	250 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	8332 KVA
	During Operation phase (Demand load):	5132 KVA
	Transformer:	3 X 2500 KVA
	DG set as Power back-up during operation phase:	630 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

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

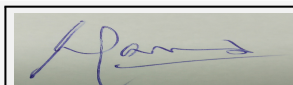
? Light fixtures will be used with energy saving LED & T5 fluorescent tube with electronic chocks.  
 ? Use of Solar energy for street lightings and solar water heater.  
 ? Small capacity transformers having low no load and load losses.  
 ? Selection of Energy efficient equipments (BEE STAR RATED)

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

Serial Number	Energy Conservation Measures	Saving %
1	22 % (COMMON AREAS)	771829 KWH

#### 50.Details of pollution control Systems

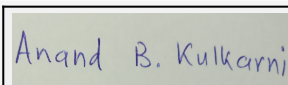
Source	Existing pollution control system	Proposed to be installed
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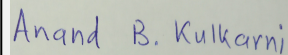
Not applicable	Not applicable		Not applicable				
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	35.0 LACS					
	<b>O &amp; M cost:</b>	1.75 LACS					
<b>51.Environmental Management plan Budgetary Allocation</b>							
<b>a) Construction phase (with Break-up):</b>							
<b>Serial Number</b>	<b>Attributes</b>	<b>Parameter</b>	<b>Total Cost per annum (Rs. In Lacs)</b>				
1	sanitation	pH, BOD, COD, TSS	8.0				
2	Health checkup	NA	1.0				
3	Safety	NA	2.5				
4	water	AS PER is 10500	4.5				
<b>b) Operation Phase (with Break-up):</b>							
<b>Serial Number</b>	<b>Component</b>	<b>Description</b>	<b>Capital cost Rs. In Lacs</b>	<b>Operational and Maintenance cost (Rs. in Lacs/yr)</b>			
1	STP	Nature based technology	45.0	3.75			
2	Ran Water harvesting	RWH pits	15.0	1.0			
3	Environmental monitoring	Air, water, noise & soil	00	1.50			
4	Solid waste Mangement	Dustbins, OWC machine	15.00	3.25			
5	Energy Conservation Measures	LEDs, Solar etc	35.00	1.75			
6	Green belt	Plantation, Garden	15.00	2.25			
<b>51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)</b>							
<b>Description</b>	<b>Status</b>	<b>Location</b>	<b>Storage Capacity in MT</b>	<b>Maximum Quantity of Storage at any point of time in MT</b>	<b>Consumption / Month in MT</b>	<b>Source of Supply</b>	<b>Means of transportation</b>
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>52.Any Other Information</b>							
No Information Available							
<b>53.Traffic Management</b>							
<b>Nos. of the junction to the main road &amp; design of confluence:</b>		2					



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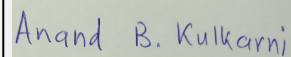
Parking details:	Number and area of basement:	1
	Number and area of podia:	NA
	Total Parking area:	4765.386 sq.m
	Area per car:	24.50 SQ.M
	Area per car:	24.50 SQ.M
	Number of 2-Wheelers as approved by competent authority:	984
	Number of 4-Wheelers as approved by competent authority:	68
	Public Transport:	BUS & RAILWAY
	Width of all Internal roads (m):	6.0 & 9.0 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)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	31-08-2015
<b>Brief information of the project by SEAC</b>		



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PP, Ramesh Sanghvi architect Mahesh Jagtap were present during the meeting. PP informed that plot area is increasing from 25,630.00 to 35,620.00 sq. m due to purchase of new plot in 2015 and PP has submitted plan to planning authority to revised building permission and applied for EC as BUA is exceeding from 20,000.00 m<sup>2</sup>. PP further informed that they have completed construction admeasuring 12,366.108 m<sup>2</sup>. Further, PP requested to reappraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 12,366.108 m<sup>2</sup> prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is observed that proposal was earlier considered in 43rd SEAC II Meeting. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 35,620 m<sup>2</sup> & total construction area of the project is 46,911.71 m<sup>2</sup>. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, presentation & plans submitted are taken on the record

## DECISION OF SEAC

### During discussion following points emerged:

1. PP to submit undertaking on legal paper regarding construction undertaken by them is less than 20,000 m<sup>2</sup> & if it is false, PP is liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date.
2. PP to provide tertiary treatment to achieve BOD of 5 mg/lit. PP to submit detailed report on STP technology proposed along with mass flow diagram considering dry and wet season.
3. Further, treated water should be reused / recycled in the project itself to ensure the zero discharge outside the project boundary. PP to submit details accordingly.
4. PP to submit details of the source & commitment regarding drinking water from the competent authority.
5. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

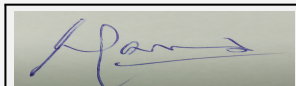
### Specific Conditions by SEAC:

## SEIAA DECISION

### Specific Conditions by SEIAA:

## FINAL RECOMMENDATION

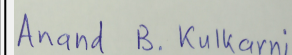
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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## SEIAA Meeting 2017

**SEIAA Meeting number: 109 Meeting Date April 18, 2017**

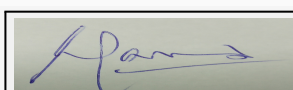
**Subject:** Environment Clearance for PROPOSED COMMERCIAL BUILDING OF "NAMSTE HOTEL AND RETAIL OFFICES" at Plot bearing C.S. No. 371, 1/107 & 1/106 of Lower Parel Division, Situated at Senapati Bapat Marg, Ambika Silk Mills Ltd. Mumbai by M/s. Jaguar Buildcon Pvt. Ltd.

**General Information: SEIAA Meeting 109 on 18th April 2017**

1.Name of Project	COMMERCIAL BUILDING OF ? NAMSTE HOTEL AND RETAIL OFFICES?
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sunil Garg, Jaguar Buildcon Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Commercial building of Hotel and Retail offices
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing C.S. No. 371,1/107 & 1/106 of Lower Parel Division, Situated at Senapati Bapat Marg, Ambika Silk Mills Ltd. Mumbai
9.Taluka	Mumbai
10.Village	Mumbai
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Approved plans: EEBP/111/GS/A dt. 30-12-2011 <b>IOD/IOA/Concession/Plan Approval Number:</b> Approved plans: EEBP/111/GS/A dt. 30-12-2011 <b>Approved Built-up Area:</b> 12550.26
13.Note on the initiated work (If applicable)	Basement work started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approved plans: EEBP/111/GS/A dt. 30-12-2011
15.Total Plot Area (sq. m.)	11,443.03 m <sup>2</sup>
16.Deductions	2,202.78 m <sup>2</sup> (amenity 572.15 m <sup>2</sup> + 1630.63 m <sup>2</sup> )
17.Net Plot area	9240.25 m <sup>2</sup>
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 12,550.26 m <sup>2</sup> b) Non FSI area (sq. m.): 20,804.78 m <sup>2</sup> c) Total BUA area (sq. m.): 33,355.04 m <sup>2</sup>
19.Total ground coverage (m <sup>2</sup> )	3640.6 m <sup>2</sup>
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39.4%
21.Estimated cost of the project	2800000000

## 22.Number of buildings & its configuration

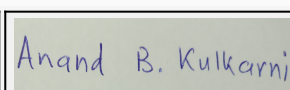
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	3B+Ground+8th Upper Floors	36.15m
23.Number of tenants and shops	57 Hotel Rooms, 3 Meeting Rooms, 13 Retail, & 1 Business Center		
24.Number of expected residents / users	2,109 Nos.		
25.Tenant density per hectare	Not Applicable		



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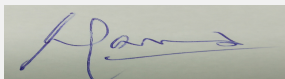
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	30.00 m wide Senapati Bapat Marg
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

### 31.Production Details

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

### 32.Total Water Requirement

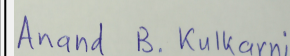
Dry season:	Source of water	MCGM
	Fresh water (CMD):	48
	Recycled water - Flushing (CMD):	64
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	112
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	0



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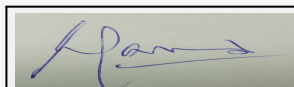
Wet season:	Source of water	MCGM
	Fresh water (CMD):	48
	Recycled water - Flushing (CMD):	64
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	112
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	0
Details of Swimming pool (If any)	Swimming pool will be provided	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	3 ? 4 m
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of total 50 m3 holding capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Rs.12 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.6 Lacs/year
	Details of UGT tanks if any :	Under -ground

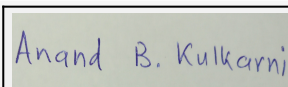
35.Storm water drainage	Natural water drainage pattern:	Towards North to South East direction of plot
	Quantity of storm water:	1264.98 m3/hr
	Size of SWD:	450mm x 600 mm



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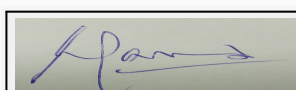
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	101 KLD
	<b>STP technology:</b>	MBR Technology
	<b>Capacity of STP (CMD):</b>	Total capacity 120 KLD & area provided about 100 m <sup>2</sup>
	<b>Location &amp; area of the STP:</b>	1st Basement
	<b>Budgetary allocation (Capital cost):</b>	Rs. 54 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 15 Lacs/year

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction debris: 833 m <sup>3</sup>
	<b>Disposal of the construction waste debris:</b>	Top soil will be used for landscaping & the construction debris is utilized at site for levelling
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	176 kg/day
	<b>Wet waste:</b>	264 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	1.0 m <sup>3</sup> /day
	<b>Others if any:</b>	The E- waste shall be handed over to E-waste management vendor authorized by MPCB
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Dry garbage will be segregated & disposed off to recyclers
	<b>Wet waste:</b>	Wet garbage will be composted using Mechanical Composting and used as organic manure for landscaping.
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Sludge use as manure for gardening
	<b>Others if any:</b>	The E- waste shall be handed over to E-waste management vendor authorized by MPCB
<b>Area requirement:</b>	<b>Location(s):</b>	Ground
	<b>Area for the storage of waste &amp; other material:</b>	50 m <sup>2</sup>
	<b>Area for machinery:</b>	22 m <sup>2</sup>
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 11 Lacs
	<b>O &amp; M cost:</b>	Rs. 4 Lacs/year

### 37.Effluent Charecterestics

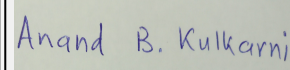
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable



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Amount of effluent generation (CMD):	Not applicable
Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

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

41.Source of Fuel

Not applicable

42.Mode of Transportation of fuel to site

Not applicable

### 43.Green Belt Development

Total RG area :

1802.96 m2

No of trees to be cut :

NA

Number of trees to be planted :

100

List of proposed native trees :

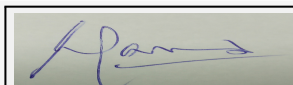
100

Timeline for completion of plantation :

2 Years

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

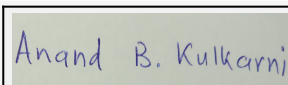
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Chrysalidocarpus Lutescens	Bamboo Palm	5	Tall evergreen tree
2	Livistonia Chinesis	Fountain palm	5	Tall evergreen tree
3	Roystonea Oleracea	Royal Palm	5	Tall evergreen tree
4	Azardiracta Indica	Neem	10	Large tree, good for roadside plantation
5	Bauhinia Blakeana	Orchid	15	Moderate sized evergreen tree



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6	Delonix Regia	Gulmohar	15	Large tree, good for roadside plantation
7	Lagersroemia Speciosa	Tamhan	15	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
8	Saraca Ashoka	Ashoka	15	Shady tree with red-yellow flowers.
9	Mimusops Elengi	Bakul	10	Shady tree, small white fragrant flowers
10	Wodyetia bifurcata	Fox tail palm	5	Tall evergreen tree

**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	Murrayapaniculata- Kunti	-	-
2	Adhatodavasica- Adulsa	-	-
3	Nerium oleander- Kanher	-	-
4	Vitexnegundo- Nirgudi	-	-

**47.Energy**

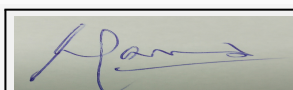
<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	250 kVA
	DG set as Power back-up during construction phase	250 kVA
	During Operation phase (Connected load):	3.5 MW
	During Operation phase (Demand load):	2.2 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total 2 x 1000 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

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

**ENERGY CONSERVATION MEASURES**

1. Efficient Envelope design with XPS Insulation for wall & roof.
2. High performance glass with lower SHGC & better U value.
3. Lower LPD reducing lighting as well as air-conditioning load.
4. Controlling of lights through Motion sensors, Day light sensors & Timers.
5. Use of high energy efficient pumps & motors for fire fighting, UG tanks and STP.
6. Solar PV & BIPV Panels of capacity 200 kWp for complete external lighting.
7. AHU?s, Cooling Towers, Secondary pum

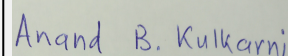
**49.Detail calculations & % of saving:**



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Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving: 25.12 %	Total Energy saving: 25.12 %
2	Energy saving through renewable energy is 16.80 % as compared to proposed case	Energy saving through renewable energy is 16.80 % as compared to proposed case

### 50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.10 Lacs
	O & M cost:	Rs. 1.0 Lacs/year

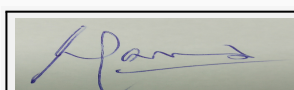
### 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	One water Tanker to spray water	5
2	Site sanitation	Toilets	3
3	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories - Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time	3
4	Potable Water Supply to Labour Camp	-	6
5	Health check-up & first aid	-	4
6	Safety Personal Protective Equipment	Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves	5
7	Traffic Management	Sign Boards, Persons at entry exit and Parking area	3
8	Safety nets	-	8
9	Solid Waste Management & Site maintenance activity	-	6
10	Safety - Training to Workers (Twice in Year), Safety Officer	-	6

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

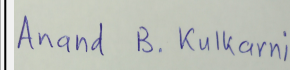
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	with Tertiary	54	15
2	Solar System	-	10	1.0
3	Rain Water Harvesting	-	12	0.6



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4	Solid waste Composting plant	-	11	4
5	Landscape development	-	18	3
6	Environmental Monitoring	As per CPCB Standards	-	4.0

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

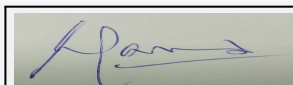
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 52.Any Other Information

No Information Available

### 53.Traffic Management

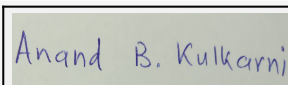
	Nos. of the junction to the main road & design of confluence:	The project is accessible by 30.48 m wide Senapati Bapat Road from Eastside
Parking details:	Number and area of basement:	3 Basement
	Number and area of podia:	NA
	Total Parking area:	13563.68 m2
	Area per car:	65 m2
	Area per car:	65 m2
	Number of 2-Wheelers as approved by competent authority:	250
	Number of 4-Wheelers as approved by competent authority:	161
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA



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	<b>Category as per schedule of EIA Notification sheet</b>	8(a)
	<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>	Yes
	<b>Date of online submission</b>	23-05-2016

### Brief information of the project by SEAC

Representative of PP, Sunil Garg & Architect Saurav Chatterjee were present during the meeting along with environmental consultant M/s Mahabal. PP informed that the proposed project is commercial project for hotel. PP informed that they have initiated construction admeasuring 11,000 m2. Further, PP requested to reappraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 11,000 m2 prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter. PP presented proposal for entire project potential to consider environmental aspects in totality. However, project is limited to FSI 1.33 for which approval has been given by the local planning authority and Committee appraised the same. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 11,443.03 m2 & total construction area of the project is 33,355.04 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record

### DECISION OF SEAC

#### During discussion following points emerged:

1. PP to submit undertaking on legal paper regarding construction undertaken is by them is less than 20,000 m2 & if it is false, PP is liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date.
2. It is informed that treated sewage water will be 100% recycled. PP to submit details indicating the same.
3. PP to ensure that BOD of treated water should be less than 5 mg/lit. PP to present appropriate technology to achieve the same.
4. PP to submit revised project specific Disaster Management Plan.
5. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

#### Specific Conditions by SEAC:

### SEIAA DECISION

The PP has located the STP in the basement. The SEIAA is of the opinion that the STP needs to be moved to the ground level. PP to submit modified proposal with drawing showing 6 meter margin from the plot boundary. OS and non paved RG area to be on ground.

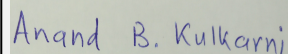
#### Specific Conditions by SEIAA:



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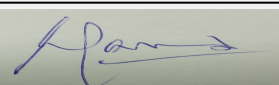


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## FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

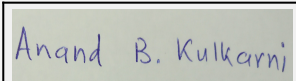
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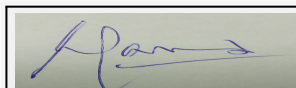
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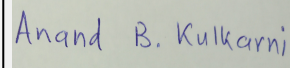
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
Subject: Environment Clearance for "SRA project" at Dharavi, Mumbai			
General Information: SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	?SRA project? at Dharavi, Mumbai		
2.Type of institution	Private		
3.Name of Project Proponent	M/s. Reliable Construction		
4.Name of Consultant	M/s. Ultra-Tech		
5.Type of project	Slum Rehabilitation Scheme (Expansion & Amendment in EC)		
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion & Amendment in EC		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance dated 26th December 2014		
8.Location of the project	C.S. Nos. 25(pt), 55(pt), 62(pt), & 68(pt) to 72(pt) of Dharavi, Division at Matunga Labour Camp, Dharavi, G/North ward, Mumbai		
9.Taluka	Mumbai		
10.Village	Dharavi		
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)		
12.IOD/IOA/Concession/Plan Approval Number	Received IOA & CC for Composite Building dt. 29.06.2007 and for Sale Building received IOA dt. 20.06.2013 and CC dt. 21.04.2015 <b>IOD/IOA/Concession/Plan Approval Number:</b> Composite Building IOA no. SRA/ENG/1742/GN/ML/AP and Sale Building IOA no. SRA/ENG/2121/GN/ML/AP <b>Approved Built-up Area:</b> 30113.54		
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): 16,835.92 Sq.mt.		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received 1st LOI dated 10th January 2005 and last amended on 20th January 2015 from SRA		
15.Total Plot Area (sq. m.)	5693.04 Sq.mt.		
16.Deductions	485.77 Sq.mt.		
17.Net Plot area	5207.27 Sq.mt.		
18.Proposed Built-up Area (FSI & Non-FSI)	<b>a) FSI area (sq. m.):</b> 29698.18 Sq.mt. (Including Fungible area) <b>b) Non FSI area (sq. m.):</b> 16470.64 Sq.mt. <b>c) Total BUA area (sq. m.):</b> 46168.82 Sq.mt.		
19.Total ground coverage (m2)	2144.17 Sq.mt.		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41%		
21.Estimated cost of the project	1499700000		
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation + Reservation - One composite building with 4 wings	Wing A : Municipal Housing : Ground + 7 Upper Floors Wing B to D: Rehabilitation : Ground + 17 Upper Floors	53.20 mt. (up to terrace level)
2	Sale - One building with four wings	Wing A, B, C & D: Ground + 23 Upper Floors	69.90 mt. (up to terrace level)



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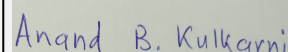
23.Number of tenants and shops	Rehabilitation + Reservation MH Housing: Flats: 24 Nos. Rehabilitation Flats: 361 Nos. Sale Flats: 26 Nos. Rehab Shops: 39 Nos. Sale Shops: 1 No. PAP Flats: 64 Nos. PAP Shops: 5 Nos. Balwadi: 5 Nos. Welfare Centers: 5 Nos. Society Offices: 5 Nos.  Sale Flats: 360 Nos. Society office: 1 No. Fitness Centre: 1 No.			
24.Number of expected residents / users	Rehabilitation + Reservation: 2610 Nos. Sale: 1805 Nos.			
25.Tenant density per hectare	Rehabilitation + Reservation : 1000/hector, Sale: 692/hector			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	13.40 m wide D.P. Road			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 mt.			
29.Existing structure (s) if any	Partly construction completed as per earlier EC			
30.Details of the demolition with disposal (If applicable)	The debris generated from demolition of existing structures shall be partly reused on site and partly disposed off to authorized landfill sites with permission from M.C.G.M.			
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				



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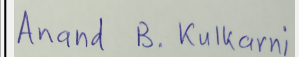
Dry season:	Source of water		MCGM						
	Fresh water (CMD):		380						
	Recycled water - Flushing (CMD):		193						
	Recycled water - Gardening (CMD):		3						
	Swimming pool make up (Cum):		NA						
	Total Water Requirement (CMD) :		576						
	Fire fighting - Underground water tank(CMD):		400						
	Fire fighting - Overhead water tank(CMD):		60						
	Excess treated water		251						
Wet season:	Source of water		MCGM/RWH						
	Fresh water (CMD):		380						
	Recycled water - Flushing (CMD):		193						
	Recycled water - Gardening (CMD):		NA						
	Swimming pool make up (Cum):		NA						
	Total Water Requirement (CMD) :		573						
	Fire fighting - Underground water tank(CMD):		400						
	Fire fighting - Overhead water tank(CMD):		60						
	Excess treated water		254						
Details of Swimming pool (If any)		NA							
33.Details of Total water consumed									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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



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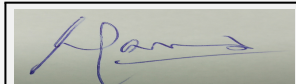
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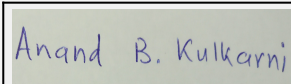
<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	2.5 mt. below ground level
	<b>Size and no of RWH tank(s) and Quantity:</b>	Rehabilitation + Reservation: One RWH tank of capacity 100 KL, Sale: One RWH tank of capacity 70 KL.
	<b>Location of the RWH tank(s):</b>	Underground
	<b>Quantity of recharge pits:</b>	NA
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 23.00 Lacs
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 0.96 Lacs/annum
	<b>Details of UGT tanks if any :</b>	Location(s) of the UGT tank(s): Underground
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD
	<b>Quantity of storm water:</b>	0.12 m3/sec
	<b>Size of SWD:</b>	300 mm wide X 250 mm deep with slope 1:250
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Rehabilitation + Reservation: 286, Sale: 211
	<b>STP technology:</b>	Moving Bed Bio Reactor (MBBR)
	<b>Capacity of STP (CMD):</b>	Rehabilitation + Reservation: 1 STP of 300 KL capacity and Sale: 1 STP of 250 KL capacity
	<b>Location &amp; area of the STP:</b>	Underground
	<b>Budgetary allocation (Capital cost):</b>	Rs. 118.65 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 27.46 Lacs/annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Debris generated shall be partly reused on site and partly disposed to the authorized sites with permission from M.C.G.M.
	<b>Disposal of the construction waste debris:</b>	The construction waste shall be partly reused on site and shall be partly disposed to authorized site through authorized contractors with permission from M.C.G.M.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	579 Kg/day
	<b>Wet waste:</b>	1324 Kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	75 Kg/day
	<b>Others if any:</b>	NA



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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non recyclable: To M.C.G.M. Recyclable: To recyclers
	<b>Wet waste:</b>	Organic Waste Converters (OWC)
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	As manure
	<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>	71
	<b>Area for machinery:</b>	24
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 18.00 Lacs
	<b>O &amp; M cost:</b>	Rs. 5.69 Lacs/annum

### 37.Effluent Charecterestics

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

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

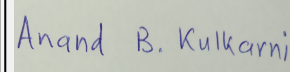
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		



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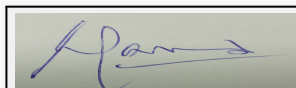
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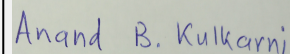
<b>43.Green Belt Development</b>	<b>Total RG area :</b>	417.14 Sq. mt.		
	<b>No of trees to be cut :</b>	NA		
	<b>Number of trees to be planted :</b>	74 nos.		
	<b>List of proposed native trees :</b>	Given in list of proposed plantation on ground		
	<b>Timeline for completion of plantation :</b>	Before occupation		
<b>44.Number and list of trees species to be planted in the ground</b>				
<b>Serial Number</b>	<b>Name of the plant</b>	<b>Common Name</b>	<b>Quantity</b>	<b>Characteristics &amp; ecological importance</b>
1	Azadirachta indica	Neem	20	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
2	Cassia fistula	Bahava	18	Medium sized deciduous tree.Beautiful yellow flowers, it is relatively drought tolerant and slightly salt tolerant. It has medicinal properties, Butterfly host plant.
3	Mimusops elengi	Bakul	19	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
4	Peltophorum pterocarpum	Copper pod	17	It is planted as ornamental plant. The wood can also be used for fuel. The bark produces yellow-brown dye. The bark (sold as Kayu Timor in Java) from which extracts are taken are believed to be effective in curing dysentery (used internally) and relieving ulcers, muscular pain and sprains. The extracts can also be used as an eye lotion, gargle and even tooth powder.
<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>				
<b>Serial Number</b>	<b>Name</b>	<b>C/C Distance</b>	<b>Area m2</b>	
1	NA	NA	NA	
<b>47.Energy</b>				



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<b>Power requirement:</b>	<b>Source of power supply :</b>	Brihanmumbai Electricity Supply and Transport (BEST)
	<b>During Construction Phase: (Demand Load)</b>	100 KW
	<b>DG set as Power back-up during construction phase</b>	As per requirement
	<b>During Operation phase (Connected load):</b>	7979 KW
	<b>During Operation phase (Demand load):</b>	3314 KW
	<b>Transformer:</b>	---
	<b>DG set as Power back-up during operation phase:</b>	Composite Building - 1 DG set of 400 kVA capacity , Sale Building - 1 DG set of 400 kVA capacity
	<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:

- ? Provision of solar lighting system for street, landscape, lift lobby and staircase lighting
- ? Provision of solar water heating system
- ? Use of LED lights in residential area
- ? Use of CFL/LED/T5 lamps for common area lighting
- ? Use of Electronic Ballast for common area lighting
- ? Use of VFD lights for lift lobby & pumps

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

Serial Number	Energy Conservation Measures	Saving %
1	<ul style="list-style-type: none"> <li>• Provision of solar lighting system for street, landscape, lift lobby and staircase lighting •</li> <li>Provision of solar water heating system • Use of LED lights in residential area • Use of CFL/LED/T5 lamps for common area lighting • Use of Electronic Ballast for common area lighting • Use of VFD lights for lift lobby &amp; pumps</li> </ul>	Rehabilitation building : 23% Sale building : 20%

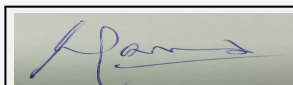
#### 50. Details of pollution control Systems

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. 52.20 Lacs
	<b>O &amp; M cost:</b>	Rs. 1.16 Lacs/annum

#### 51. Environmental Management plan Budgetary Allocation

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

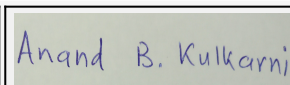
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust Suppression	3.60



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2	Air Environment	Air & Noise monitoring - Sensors for Air and Noise quality monitoring	10.00
3	Air Environment	Air & Noise monitoring - By outside MOEF Approved Laboratory	0.66
4	Water Environment	Drinking water analysis	0.54
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection at site- Pest Control	2.40
7	Health & Hygiene	Health Check Up of workers	9.00
8	Cost towards Disaster management	---	39.54

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

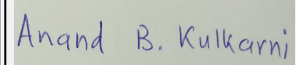
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment & Biological Environment	Cost for Gardening	2.29	1.20
2	Air Environment & Biological Environment	Cost for Ambient air & Noise Monitoring	No set up cost is involved	0.22
3	Air Environment & Biological Environment	DG Stack Exhaust Monitoring	No set up cost is involved	0.10
4	Water Environment - Waste water treatment	Cost for sewage treatment plant	100.65	26.46
5	Water Environment - Waste water treatment	Cost for Waste water Monitoring - On site sensors	18.00	1.00
6	Water Environment - Waste water treatment	Cost for Waste water Monitoring - By outside MOEF Approved Laboratory	No set up cost is involved	0.054
7	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	17.00	0.85
8	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for rain water tanks	6.00	0.02
9	Water Environment - Water Conservation (Rain Water Harvesting System)	Rain Water Quality Monitoring	No set up cost is involved	0.09
10	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC	18.00	5.62



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11	Land Environment (Solid Waste Management)	Cost for monitoring of OWC manure	No set up cost is involved	0.08
12	Energy Conservation	Solar system for water heating	52.20	1.16
13	Cost towards Disaster management	---	271.05	16.69

### 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

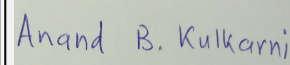
	Nos. of the junction to the main road & design of confluence:	Five entry and Five exits.
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	1653.73 Sq.mt.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required - Nil, Provided - 13 nos.
	Number of 4-Wheelers as approved by competent authority:	Required - 57 nos. , Provided - 57 nos.
	Public Transport:	NA
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA



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	<b>Category as per schedule of EIA Notification sheet</b>	Category 8(a)
	<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>	Yes
	<b>Date of online submission</b>	19-05-2016

### Brief information of the project by SEAC

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 5693.04 m<sup>2</sup> & total construction area of the project is 46,168.82 m<sup>2</sup>. Total number of four wheeler parking is 57 & two wheeler 13 on the parking area of 1654 m<sup>2</sup>. RG provided on ground is 417.14 m<sup>2</sup>. Sewage generation is 497 KLD. 2 STPs are provided of capacity 300 KLD & 250 KLD. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record. Representative of PP, Sadanand Shetty & Taranath Shetty was present during the meeting along with environmental consultant M/s Ultratech. PP informed that they have received earlier EC vide letter dated 26/12/2014 for total construction area of 35,054.62 m<sup>2</sup>. PP informed that they have completed construction measuring 16,835.2 m<sup>2</sup> as per EC. Expansion is due to increase in FSI from 3 to 4. PP submitted LOI dated 20/01/2015. PP also stated that there is change in planning of sale building. Height of the building is 69.9 m. Committee noted comparative changes due to proposed expansion/amendment:

### DECISION OF SEAC

#### During discussion following points emerged:

1. PP to submit compliance report with comparative statements of conditions stipulated in earlier EC.
2. PP shall operate and maintain Environmental Management Facilities (EMF) & fire-fighting system for 10 years after giving possession and shall also generate corpus fund for next 5 years.
3. PP to submit revised project specific Disaster Management Plan especially considering occurrence of flood in Dharavi area.
4. It is observed that there is no access of fire tender movement to the flats of rehab building. PP to provide paved area around the RG in the rehab component to enable fire tender movement to tackle fire in the rehab component & submit fire tender movement plan accordingly.
5. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

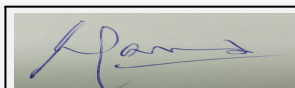
**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

#### Specific Conditions by SEAC:

### SEIAA DECISION

Approved

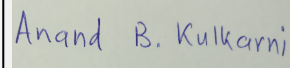
#### Specific Conditions by SEIAA:



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## FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

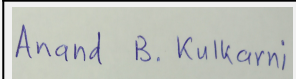
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## SEIAA Meeting 2017

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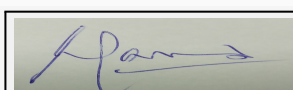
**Subject:** Environment Clearance for Amendment in Environmental Clearance for "AMRUT MANTHAN + SHREE MAHALAXMI & PRIMUS RESIDENCES" at Santacruz, Mumbai.

**General Information:** SEIAA Meeting 109 on 18th April 2017

1.Name of Project	?AMRUT MANTHAN + SHREE MAHALAXMI & PRIMUS RESIDENCES? at Santacruz, Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	M/s. GURUKRUPA DEVELOPERS
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Slum Rehabilitation Scheme + Residential Sale Bldg.
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing C.T.S. No. 4091, 4091/1 to 37, 4097, 4097/1 to 5, 4090B & 4090A/2 to 19 of Village Kolkalyan, Santacruz (E), Mumbai, Maharashtra
9.Taluka	Andheri
10.Village	Kolkalyan
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	IOD (MCGM) <b>IOD/IOA/Concession/Plan Approval Number:</b> For Sale ? SRA/ ENG/ 2721/ HE/ PL/ AP & For Rehab ? SRA/ ENG/ 2217/ HE/ AP <b>Approved Built-up Area:</b> 11606
13.Note on the initiated work (If applicable)	Total Construction work :- 9710.64
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	For Sale ? SRA/ ENG/ 2721/ HE/ PL/ AP & For Rehab ? SRA/ ENG/ 2217/ HE/ AP
15.Total Plot Area (sq. m.)	5,460.20
16.Deductions	84.54
17.Net Plot area	5,375.66
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 17,577.47 b) Non FSI area (sq. m.): 14,932.522 c) Total BUA area (sq. m.): 32,509.992
19.Total ground coverage (m2)	1,734.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32.26 %
21.Estimated cost of the project	106290000.00

## 22.Number of buildings & its configuration

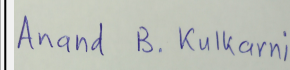
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab : Wing A & C	Ground/ Stilt + 12 Upper Floors	42.20
2	Rehab: Wing B	Ground/ Stilt + 13 Upper Floors	42.20
3	Sale : Wing A,B,C	3 Basement + Ground/Stilt + 15 Upper Floors	47.30



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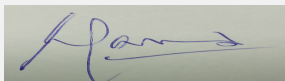
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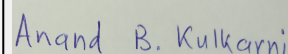
23.Number of tenants and shops	Rehab: Flats: 133 Nos. PAP: 53 Nos. Shops: 4 Nos. (Rehab) 1 No. (Sale) Balwadi: 2 Nos. Welfare Centre: 2 Nos. Society Offices: 2 Nos.  Sale: Residential: 162 Nos.			
24.Number of expected residents / users	Rehab: 985 persons Sale: 810 persons			
25.Tenant density per hectare	668			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	13.40			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.00			
29.Existing structure (s) if any	Partly completed new construction of Rehab Bldg.			
30.Details of the demolition with disposal (If applicable)	The debris and part of excavated material has been disposed to authorized site through authorized contractors with permission from M.C.G.M. & part of excavated material shall be disposed of to authorized landfill sites.			
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				



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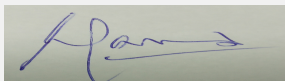
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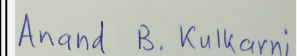
Dry season:	Source of water			MCGM						
	Fresh water (CMD):			Rehab : 85 ; Sale : 73						
	Recycled water - Flushing (CMD):			Rehab : 43 ; Sale : 38						
	Recycled water - Gardening (CMD):			Rehab : 2.26 ; Sale : 2.75						
	Swimming pool make up (Cum):			NA						
	Total Water Requirement (CMD) :			Rehab : 130.26; Sale : 113.75						
	Fire fighting - Underground water tank(CMD):			Rehab : 150 ; Sale : 150						
	Fire fighting - Overhead water tank(CMD):			NA						
	Excess treated water			101.19						
Wet season:	Source of water			MCGM						
	Fresh water (CMD):			Rehab : 85 ; Sale : 73						
	Recycled water - Flushing (CMD):			Rehab : 43 ; Sale : 38						
	Recycled water - Gardening (CMD):			Rehab : NIL ; Sale : NIL						
	Swimming pool make up (Cum):			NA						
	Total Water Requirement (CMD) :			Rehab : 128; Sale : 111						
	Fire fighting - Underground water tank(CMD):			Rehab : 150 ; Sale : 150						
	Fire fighting - Overhead water tank(CMD):			NA						
	Excess treated water			106						
Details of Swimming pool (If any)				NA						
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	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	




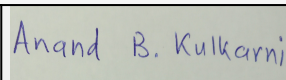
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	5.00 mt
	<b>Size and no of RWH tank(s) and Quantity:</b>	NA
	<b>Location of the RWH tank(s):</b>	NA
	<b>Quantity of recharge pits:</b>	Rehabilitation: 2 nos. of recharge pits. Sale: 4 nos. of recharge pits.
	<b>Size of recharge pits :</b>	Rehabilitation: 2 nos. of recharge pits. Sale: 4 nos. of recharge pits.
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 21 Lakhs
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 0.36 Lakhs/annum
	<b>Details of UGT tanks if any :</b>	Location(s) of the UGT tank(s): Rehabilitation: Underground Sale: Basement 1 & 2
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD.
	<b>Quantity of storm water:</b>	0.26 m3/sec
	<b>Size of SWD:</b>	600 mm Wide x 500 mm Depth
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Rehab :- 111 KLD ; Sale: -97 KLD
	<b>STP technology:</b>	Attached Growth
	<b>Capacity of STP (CMD):</b>	Rehab : 120 KLD ; Sale : 110 KLD
	<b>Location &amp; area of the STP:</b>	Rehab : Underground ; Sale : 1st Level Basement
	<b>Budgetary allocation (Capital cost):</b>	Rehab : Rs.28.40 Lakhs ; Sale : Rs.27.70 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rehab : 9.60 Lakhs/annum ; Sale : 9.36 Lakhs/annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	The debris and part of excavated material has been disposed to authorized site through authorized contractors with permission from M.C.G.M. & part of excavated material shall be disposed of to authorized landfill sites.
	<b>Disposal of the construction waste debris:</b>	Construction waste shall be disposed of by covered trucks to the authorized sites.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Rehab : 130 kg/day ; Sale : 109 kg/day
	<b>Wet waste:</b>	Rehab : 300 kg/day ; Sale : 255 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	11 kg/day
	<b>Others if any:</b>	NA
<div>  <div> <b>Shri Satish.M.Gavai</b>            (Member Secretary SEIAA) </div> </div> <div> <b>SEIAA Meeting No: 109 Meeting Date: April 18, 2017</b> </div> <div> <div>  <div> <b>Shri. Anand B. Kulkarni</b>            (Chairman SEIAA) </div> </div> <div> <b>Page 61 of 198</b> </div> </div>		

<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non-recyclable: To M.C.G.M. ; Recyclable: To recyclers
	<b>Wet waste:</b>	Organic Waste Converter
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Used as manure within the premises for plants.
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Rehab : Stilt ; Sale : Stilt
	<b>Area for the storage of waste &amp; other material:</b>	Rehab : 22 sq.mt ; Sale : 30 sq.mt
	<b>Area for machinery:</b>	Rehab : 22 sq.mt ; Sale : 30 sq.mt
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rehab : Rs 6 Lakhs ; Sale : Rs 6 Lakhs
	<b>O &amp; M cost:</b>	Rehab : Rs 1.8 Lakhs/annum ; Sale : Rs 1.8 Lakhs/annum

### 37.Effluent Charecterestics

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

### 38.Hazardous Waste Details

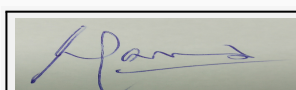
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

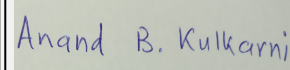
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		



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<b>43.Green Belt Development</b>	<b>Total RG area :</b>	666.12 sq.mt
	<b>No of trees to be cut :</b>	12
	<b>Number of trees to be planted :</b>	50
	<b>List of proposed native trees :</b>	listed as below
	<b>Timeline for completion of plantation :</b>	At the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Michelia Champaca	Champaka	5	Flowering
2	Polyalthia longifera	Ashoka	10	Flowering
3	Azadirachta Indica	Neem	3	Medicinal
4	Anthocephalus Cadamba	Kadam	4	Shady
5	Plumeria Alba	Chafa	2	Flowering

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

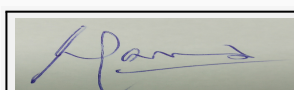
#### 46.Number and list of shrubs and bushes species to be planted in the podium RG:

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

#### 47.Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	Reliance Energy
	<b>During Construction Phase: (Demand Load)</b>	100 KW
	<b>DG set as Power back-up during construction phase</b>	100 KW
	<b>During Operation phase (Connected load):</b>	Rehab : 1,148 KW ; Sale : 2,821 KW
	<b>During Operation phase (Demand load):</b>	Rehab : 479 KW ; Sale : 1,116 KW
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	Rehabilitation: 1 D.G. Set of capacity 320 kVA Sale: 1 D.G. Set of capacity 630 kVA
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	NA

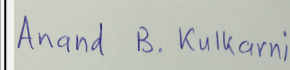
#### 48.Energy saving by non-conventional method:



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Energy saving measures:

- o Solar system shall be provided
- o Common area lighting with CFL/T5 Lamps
- o Energy efficient fluorescent lamps & CFL lamps with high frequency ballast which give more light output for the same watts consumed and therefore require less nos. of fixtures
- o Equipment efficiency standards
- o Power factor be maintained between 0.95 and unity for major equipment like Lift, STP etc. This will reduce electrical power distribution losses in the installation.
- o Timer & motion sensor

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

Serial Number	Energy Conservation Measures	Saving %
1	Energy savings	Rehabilitation: 20 % Sale: 22 %

#### 50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	8500000
	O & M cost:	500000

#### 51.Environmental Management plan Budgetary Allocation

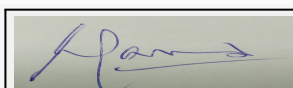
##### a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water for Dust Suppression	1296000
2	EHS	Site Sanitation	500000
3	Environmental Monitoring	Environmental Monitoring	2160000
4	EHS	Disinfection at site	360000
5	EHS	Health check-up for workers	540000

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	STP	2840000	960000
2	Water Environment	Rain water harvesting (2 Nos. of recharge pits) Rain water harvesting (2 Nos. of recharge pits) 7.00 0.12	700000	12000
3	Environmental Monitoring	Environmental Monitoring	MOEF approved agency for monitoring	1107000
4	Land Environment	Gardening	400000	71000
5	Solid waste	Cost for Treatment of biodegradable garbage in OWC	600000	1800000

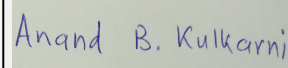
#### 51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)



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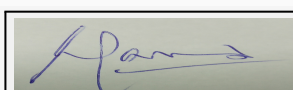
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## 52.Any Other Information

No Information Available

## 53.Traffic Management

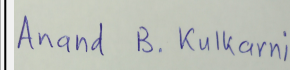
	Nos. of the junction to the main road & design of confluence:	One entry & one exit to main road
Parking details:	Number and area of basement:	Sale : 3 No. Basement with Area : 6,532.527 Sq. mt.
	Number and area of podia:	NIL
	Total Parking area:	3,806.11 Sq.mt
	Area per car:	23.64 Sq.mt
	Area per car:	23.64 Sq.mt
	Number of 2-Wheelers as approved by competent authority:	NIL
	Number of 4-Wheelers as approved by competent authority:	161
	Public Transport:	NIL
	Width of all Internal roads (m):	6.00 mt
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National park: Approx. 11.05 Km
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	NA
	Other Relevant Informations	NA



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	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	25-11-2015

## Brief information of the project by SEAC

Representative of PP, Shyam Agrawal & Architect Mr. Talreja were present during the meeting. PP stated that they have received earlier EC vide letter SEAC-2013/CR-490/TC-1 dated 29/04/2014 for total construction area of 31,098.65 m<sup>2</sup>. PP also stated that they have completed construction admeasuring 9,710.64 m<sup>2</sup> as per EC. PP informed that proposal is for amendment for change in use of sale building from office building to residential building. Fungible FSI is proposed to be utilized in the proposed residential sale building. There is no change in building profile and configuration of rehab component. Ground coverage is reduced to 32.26% from 35.57%. Height of the proposed sale building is 47.65 m against the 46.15 m as proposed earlier. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is observed that proposal was earlier considered in 43rd SEAC II Meeting. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 5460.20 m<sup>2</sup> & total construction area of the project is increased from 31,098.65 m<sup>2</sup> to 32,509.992 m<sup>2</sup>. It is observed that RG is reduced from 666.12 m<sup>2</sup> to 563.66 m<sup>2</sup>. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, presentation & plans submitted are taken on the record.

## DECISION OF SEAC

**During discussion following points emerged:** 1. PP submitted compliance report with comparative statements of conditions stipulated in earlier EC.

2. PP to obtain fresh NOC for water supply and sewer line connection from local body.
3. It is observed that now area of 666.12 m<sup>2</sup> for RG is maintained and RG for sale is at one place which is 364.63 m<sup>2</sup>. PP to ensure the implementation of same.
4. It is observed that compliance of point no 3 is not fully complied. PP to submit revised DMP along with item wise cost.
5. PP to ensure that renewable energy share is 10% of the total demand. Further, PP to revise the connection load as project profile changed from commercial to residential and submit details.
6. PP to ensure that vegetative noise barriers are developed in and around as ambient noise level as on today is above the permissible level. 7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

**Specific Conditions by SEAC:**

## SEIAA DECISION

Approved

**Specific Conditions by SEIAA:**

## FINAL RECOMMENDATION

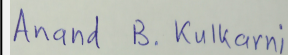
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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(Member Secretary SEIAA)

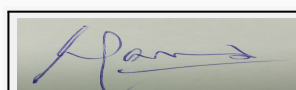
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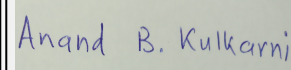
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
Subject: Environment Clearance for Slum Rehabilitation Scheme at Malad (W), Mumbai			
General Information: SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	Slum Rehabilitation Scheme at Malad (W), Mumbai		
2.Type of institution	Private		
3.Name of Project Proponent	M/s. Crescent Amity Realtors Pvt. Ltd.		
4.Name of Consultant	M/s. Ultra-Tech		
5.Type of project	SRA Scheme		
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion and Amendment in Environment Clearance (EC)		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance dt. 11.12.2014		
8.Location of the project	CTS No. 213A(PT), 213B, 214, 214/1 to 31, 215(PT) of Village - Valnai, Taluka - Borivali, Mumbai		
9.Taluka	Borivali		
10.Village	Valnai		
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)		
12.IOD/IOA/Concession/Plan Approval Number	Received Intimation Of Approval (IOA) & Commencement Certificate (CC) from SRA IOD/IOA/Concession/Plan Approval Number: Sale Amended plan no. SRA/DDTP/652/PN/PL/AP dt. 16.4.2016 and Rehab Amended plan No. SRA/DDTP/683/PN/PL/AP dt. 16.4.2016 Approved Built-up Area: 23087.97		
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): 6,724.34 Sq. mt.		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received revised Letter of Intent (LOI) dt.13.04.2016 from SRA		
15.Total Plot Area (sq. m.)	5,432.16 Sq.mt.		
16.Deductions	2,259.42 Sq.mt.		
17.Net Plot area	3,172.74 Sq.mt.		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 21,270.59 Sq.mt. (Including Fungible Area) b) Non FSI area (sq. m.): 11,869.77 Sq.mt. c) Total BUA area (sq. m.): 33,140.36 Sq.mt.		
19.Total ground coverage (m2)	1,227.65 Sq.mt.		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39%		
21.Estimated cost of the project	726200000		
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation (Building No. 2)	Basement + Ground + 20 Upper Floors + 21st (pt) Floor	64.17 mt.
2	Sale (Building No. 1)	Ground/Stilt + 6 Mechanical Parking Floors + E-Deck level + 1st to 14th Residential Floor + Fire Check Floor + 15th to 32ndUpper Floors and 33rd (pt) Floor	140.50 mt.



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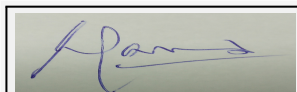
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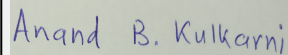
23.Number of tenants and shops	Rehabilitation: Residential Units: 152 Nos. Public Transit Camp (PTC): 49 Nos. Shops: 11 Nos. Balwadi and Welfare Centre: 2 Nos. each Society office: 1No. Retail Market: 1 No. Sale Clinic: 2 Nos. Sale Shop: 1 No. Sale Flats: 3 Nos.  Sale: Flats: 128Nos. Society office: 1 No.			
24.Number of expected residents / users	1743 Nos.			
25.Tenant density per hectare	1081/hector			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	18.30 mt. wide DP road			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 6.00 mt.			
29.Existing structure (s) if any	Part completed construction of Rehabilitation and Sale Building as per earlier EC.			
30.Details of the demolition with disposal (If applicable)	Demolition debris generated from the remaining structures shall be disposed to authorized landfill site as per NOC from M.C.G.M.			
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				



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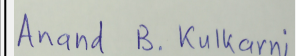
Dry season:	Source of water	MCGM							
	Fresh water (CMD):	152							
	Recycled water - Flushing (CMD):	79							
	Recycled water - Gardening (CMD):	3							
	Swimming pool make up (Cum):	1							
	Total Water Requirement (CMD) :	235							
	Fire fighting - Underground water tank(CMD):	400							
	Fire fighting - Overhead water tank(CMD):	30							
	Excess treated water	98							
Wet season:	Source of water	MCGM/RWH							
	Fresh water (CMD):	152							
	Recycled water - Flushing (CMD):	79							
	Recycled water - Gardening (CMD):	NA							
	Swimming pool make up (Cum):	1							
	Total Water Requirement (CMD) :	232							
	Fire fighting - Underground water tank(CMD):	400							
	Fire fighting - Overhead water tank(CMD):	30							
	Excess treated water	101							
Details of Swimming pool (If any)		Swimming Pool volume - 31.48 m3							
33.Details of Total water consumed									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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



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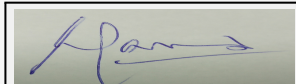
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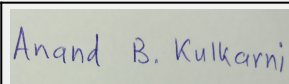
<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	6 ? 7 mt. below ground level
	<b>Size and no of RWH tank(s) and Quantity:</b>	For Rehabilitation Building - 1 RWH Tank of 32 KL and For Sale Building - 1 RWH Tank of 26 KL
	<b>Location of the RWH tank(s):</b>	Underground
	<b>Quantity of recharge pits:</b>	NA
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	Rs.12.20 Lacs
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 0.42 Lacs/annum
	<b>Details of UGT tanks if any :</b>	Location(s) of the UGT tank(s): Underground & Basement
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD
	<b>Quantity of storm water:</b>	0.11 m3/sec
	<b>Size of SWD:</b>	600mm x 450mm deep with the slope of 1: 300
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Rehabilitation: 126 KLD and Sale: 75 KLD
	<b>STP technology:</b>	MBBR (Moving Bed Bio Reactor)
	<b>Capacity of STP (CMD):</b>	Rehabilitation: 1 STP of capacity 130 KL and Sale: 1 STP of capacity 100 KL
	<b>Location &amp; area of the STP:</b>	Underground
	<b>Budgetary allocation (Capital cost):</b>	Rs. 82.75 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 21.11Lacs/annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Excavation material already disposed to authorized landfill site as per permission from M.C.G.M.
	<b>Disposal of the construction waste debris:</b>	Construction waste shall be partly reused on the site and partly will be disposed to the authorized landfill site
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	231 Kg/day
	<b>Wet waste:</b>	525 Kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	20 Kg/month
	<b>STP Sludge (Dry sludge):</b>	30 Kg/day
	<b>Others if any:</b>	NA



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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non-recyclable: To M.C.G.M. Recyclable: To recyclers
	<b>Wet waste:</b>	Composting in organic waste convertor
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	Bio-medical waste will be handled and disposed as per Bio-medical Waste Management Rules, 2016
	<b>STP Sludge (Dry sludge):</b>	As manure
	<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>	40
	<b>Area for machinery:</b>	24
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs.18.00 Lacs
	<b>O &amp; M cost:</b>	Rs. 3.53 Lacs/annum

### 37.Effluent Charecterestics

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

### 38.Hazardous Waste Details

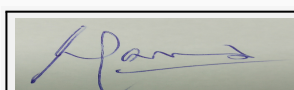
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

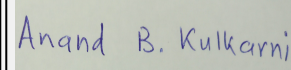
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		



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<b>43.Green Belt Development</b>	<b>Total RG area :</b>	358.56 Sq.mt.
	<b>No of trees to be cut :</b>	NA
	<b>Number of trees to be planted :</b>	50 Nos.
	<b>List of proposed native trees :</b>	Given in list of proposed plantation on ground
	<b>Timeline for completion of plantation :</b>	Before occupation

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

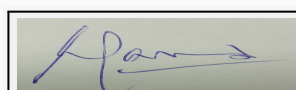
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops elengi	Bakul	7	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
2	Azadirachta indica	Neem	8	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
3	Neolamarckia cadamba	Kadamb	8	It is a quick growing , large traffic like spreading branches, its fragment orange flowers attracts pollinators, it helps in improving physical and chemical properties of soil, Shady, large tree, ball shaped flowers. It acquires profitable medicinal and commercial properties.
4	Nyctanthe sarbortristis	Parijatak	8	Small deciduous fast growing tree or shrub, beautiful fragrant flowers, Its leaves and bark has medicinal properties.
5	Annona reticulata	Ramphal	11	Erect tree with a spreading crown and 10 to 14 in (25-35 cm) thick trunk. The leaves are deciduous, alternate, oblong or narrow-lanceolate
6	Michelia champaca	Sonchafa	8	Medium sized evergreen tree, strongly fragrant yellow flowers used in perfume industry, Butterfly host plant

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

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

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

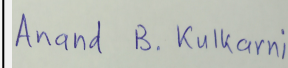
#### 47.Energy



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<b>Power requirement:</b>	<b>Source of power supply :</b>	TATA Power
	<b>During Construction Phase: (Demand Load)</b>	100 KW
	<b>DG set as Power back-up during construction phase</b>	As per requirement
	<b>During Operation phase (Connected load):</b>	2349 KW
	<b>During Operation phase (Demand load):</b>	1644 kW
	<b>Transformer:</b>	----
	<b>DG set as Power back-up during operation phase:</b>	Rehabilitation: 1 DG set of 380kVA, Sale: 1 DG set of 625 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:

- ? Use of Solar system for Common area lighting
- ? Use of standalone Solar panels for external lighting
- ? Use of LED Lights for Common area lighting
- ? Use of VFD drives for all lifts
- ? Use of BEE Certified Motors for equipments

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

Serial Number	Energy Conservation Measures	Saving %
1	<ul style="list-style-type: none"> <li>• Use of Solar system for Common area lighting</li> <li>• Use of standalone Solar panels for external lighting</li> <li>• Use of LED Lights for Common area lighting</li> <li>• Use of VFD drives for all lifts</li> <li>• Use of BEE Certified Motors for equipments</li> </ul>	24%

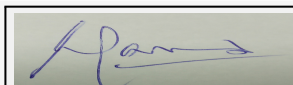
#### 50. Details of pollution control Systems

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. 50.00 Lacs
	<b>O &amp; M cost:</b>	Rs. 5.00 Lacs/annum

#### 51. Environmental Management plan Budgetary Allocation

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

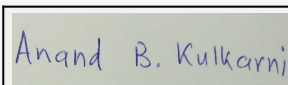
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust suppression	3.60



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2	Air Environment	Air & Noise monitoring - Sensors for Air and Noise quality monitoring	10.00
3	Air Environment	Air & Noise monitoring - By outside MOEF Approved Laboratory	1.10
4	Water Environment	Drinking water analysis	0.90
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection- Pest Control	6.00
7	Health & Hygiene	Health Checkup of workers	22.50
8	Cost towards Disaster management	---	105.00

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

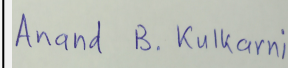
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Noise Environment & Biological Environment	Cost for Gardening	1.97	1.20
2	Air, Noise Environment & Biological Environment	Cost for Ambient air & Noise Monitoring	No set up cost is involved	0.22
3	Air, Noise Environment & Biological Environment	Cost for DG Stack Exhaust Monitoring	No set up cost is involved	0.10
4	Water Environment - Waste water treatment	Cost for sewage Treatment Plant	64.75	20.05
5	Water Environment - Waste water treatment	Cost for Waste water Monitoring - On site sensors	18.00	1.00
6	Water Environment - Waste water treatment	Cost for Waste water Monitoring - By outside MOEF Approved Laboratory	No set up cost is involved	0.05
7	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	6.20	0.31
8	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for rain water tanks	6.00	0.02
9	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.09
10	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC	18.00	3.45



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11	Land Environment (Solid Waste Management)	Cost for monitoring of organic manure	No set up cost is involved	0.08
12	Energy Conservation	Solar system	50.00	5.00
13	Cost towards Disaster management	---	172.92	14.44

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

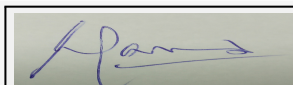
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 52.Any Other Information

No Information Available

### 53.Traffic Management

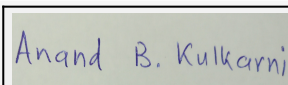
	Nos. of the junction to the main road & design of confluence:	Two entry & two exit for each building
Parking details:	Number and area of basement:	1 Basement for Rehabilitation Building (only for services)
	Number and area of podia:	1 Podium for Sale Building but no parking provision
	Total Parking area:	573.45 Sq.mt.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required - Nil, Provided - 20 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required - 159 Nos. , Provided - 159 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6.00 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park: Within 4.00 Km.



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	<b>Category as per schedule of EIA Notification sheet</b>	Category 8(a)
	<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>	Yes
	<b>Date of online submission</b>	29-04-2016

### Brief information of the project by SEAC

Representative of PP, Jigar Vora, Architect Sheetal Nandanwar were present during the meeting along with environmental consultant M/s Ultratech. PP informed that they have received earlier EC vide letter dated 11/12/2014 for total construction area of 23,544.11 m<sup>2</sup>. PP informed that they have undertaken construction admeasuring 6724.34 m<sup>2</sup> as per EC. Proposed vertical expansion is due to addition of FSI (from 3 to 4) and there is increase in eligibility of tenants also (from 84 to 163). PP also informed that they have received LOI from SRA dated 13/04/2016. Committee noted following comparative changes due to proposed expansion/amendment

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 5432.16 m<sup>2</sup> & total construction area of the project is 33,140.36 m<sup>2</sup>. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record

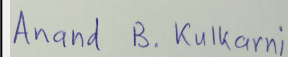
### DECISION OF SEAC



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**During discussion following points emerged:** 1. PP to submit compliance report with comparative statements of conditions stipulated in earlier EC.

2. PP to submit copy of structural reanalysis stability/design audit report to ascertain increased load of the proposed addition of floors on rehab and sale buildings.

3. PP to provide air cleaning system in basement.

4. It is observed that evacuation time for sale component is 53 minutes which appears to be high. PP to ensure that evacuation time should be 30 minutes.

5. PP to submit revised water budget details. It is not clear how harvested rain water is proposed to be used. PP to submit details of the treatment and utilization plan for the same.

6. It is observed that north-west side of the rehab building no.2 is not accessible for fighting the fire due to stack parking proposed at the end of the road. There is also not adequate turning radius for fire tender movement.

7. PP, if applicable, to obtain NOC from Wild Life Board in terms of OM of MoEF dated 30/03/2015. Further, it is informed that part of the project falls within 4 kms of SGNP. PP & concerned Municipal Corporation to ensure the compliance of the NGT order dated 03/12/2015 in the application MA.No.125/2014 before issuing commencement certificate for further construction permissions in the area.

8. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

**Specific Conditions by SEAC:**

## SEIAA DECISION

Approved

**Specific Conditions by SEIAA:**

## FINAL RECOMMENDATION

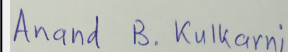
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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## SEIAA Meeting 2017

**SEIAA Meeting number: 109 Meeting Date April 18, 2017**

**Subject:** Environment Clearance for Application for Environmental Clearance for Navi Sherli Mata Yashodhara Nagar Rahiwasi CHS LTD, Bandra, Mumbai. CTS No E/86/10 By Joy Builders.

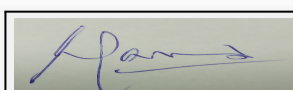
**General Information:** SEIAA Meeting 109 on 18th April 2017

1.Name of Project	Navi Sherli Mata Yashodhara Nagar Rahivashi SRA CHS Ltd (SRA Project)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jayant B. Soni
4.Name of Consultant	Mr. H.K.Desai
5.Type of project	SRA Scheme
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	Plot Bearing CTS NO. E/86/10, Village Bandra, 13th X 19th Road, Khar-West, Mumbai - 400052
9.Taluka	Bandra
10.Village	Bandra
11.Area of the project	Municipal Corporation of greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOA received
	<b>IOD/IOA/Concession/Plan Approval Number:</b> IOA for Composite bldg 4: Approval vide no. SRA/ENG/2612/HW/PL/AP, dtd: 30.11.2016; IOA for Rehab Bldg 3: Approval vide no. SRA/ENG/444/HW/PL/LAY, dtd: 29.11.2016; IOA letter vide no. SRA/ENG/444/HW/PL/LAY dtd: 29.11.2016
	<b>Approved Built-up Area:</b> 13521
13.Note on the initiated work (If applicable)	Rehab Building 1 & 2 has been constructed completely. Rehab building 3 has been constructed part ground+ part stilt + 1st to 14th, 15th (Pt) to 18th(Pt) floor. Composite Building 4 has been completed up to 2nd floors.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received. Vide letter no.1) SRA/ENG/1060/HW/PL/LOI 2) SRA/ENG/1107/HW/PL/LOI Dated 20th May 2015
15.Total Plot Area (sq. m.)	3802.40
16.Deductions	306.32
17.Net Plot area	3507.72
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 14462.42
	b) Non FSI area (sq. m.): 13119.13
	c) Total BUA area (sq. m.): 27581.55
19.Total ground coverage (m2)	1562.025 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41.08 %
21.Estimated cost of the project	850000000

## 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab bldg- 1	Stilt + 14 floors	49.20 m
2	Rehab bldg- 2	Gr (pt) + Stilt + 14th floors	49.20 m
3	Rehab bldg- 3	Gr(pt)+ stilt (pt) + 18 floors	61.35 m
4	Composite Bldg	Gr. (Pt.) + Stilt + 19 floors	63.20

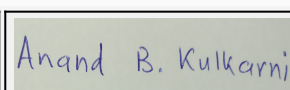
23.Number of tenants and shops	Residential: 528 nos. Shops: 8 nos. BWS: 14 nos.
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<b>24.Number of expected residents / users</b>	2701 nos
<b>25.Tenant density per hectare</b>	1571 Tenant / hector
<b>26.Height of the building(s)</b>	
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	12.00 wide road
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Minimum 9.00 m
<b>29.Existing structure (s) if any</b>	? Rehab building 1 & rehab building 2 have been constructed completely. ? Rehab building 3 have been constructed upto part ground+ part stilt + 1st to 14th, 15th (Pt) to 18th(Pt) floor. ? Composite Building 4 have been constructed upto 2nd floor
<b>30.Details of the demolition with disposal (If applicable)</b>	Not Applicable

### 31.Production Details

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

### 32.Total Water Requirement

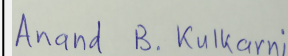
Dry season:	<b>Source of water</b>	MCGM/Recycled water
	<b>Fresh water (CMD):</b>	238
	<b>Recycled water - Flushing (CMD):</b>	121
	<b>Recycled water - Gardening (CMD):</b>	2
	<b>Swimming pool make up (Cum):</b>	Not Applicable
	<b>Total Water Requirement (CMD) :</b>	361
	<b>Fire fighting - Underground water tank(CMD):</b>	300
	<b>Fire fighting - Overhead water tank(CMD):</b>	40
	<b>Excess treated water</b>	182



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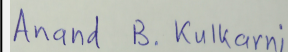
Wet season:	Source of water		MCGM/RWH/ STP Treated water						
	Fresh water (CMD):		238						
	Recycled water - Flushing (CMD):		121						
	Recycled water - Gardening (CMD):		0						
	Swimming pool make up (Cum):		Not Applicable						
	Total Water Requirement (CMD) :		359						
	Fire fighting - Underground water tank(CMD):		300						
	Fire fighting - Overhead water tank(CMD):		40						
	Excess treated water		184						
Details of Swimming pool (If any)		Not Applicable							
33.Details of Total water consumed									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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
34.Rain Water Harvesting (RWH)	Level of the Ground water table:		2 m bgl						
	Size and no of RWH tank(s) and Quantity:		2 nos. of RWH Tank of capacity 39 cum & 21 cum						
	Location of the RWH tank(s):		Below Ground Level						
	Quantity of recharge pits:		2 no?s of recharge pits, 1 X 12 cum & 1 X 17 cum						
	Size of recharge pits :		2 no?s of recharge pits, 1 X 12 cum & 1 X 17 cum						
	Budgetary allocation (Capital cost) :		1500000						
	Budgetary allocation (O & M cost) :		150000						
	Details of UGT tanks if any :		Domestic Water Tank: 289 KLD Flushing Water Tank: 119 KLD Fire fighting Tank: 300 KLD						



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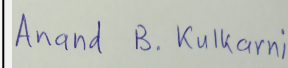
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	From SW to NE
	<b>Quantity of storm water:</b>	0.3 m3/sec
	<b>Size of SWD:</b>	450 mm X 430 mm
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	335 KLD
	<b>STP technology:</b>	RMBR Technology
	<b>Capacity of STP (CMD):</b>	1 STP of capacity 340 KLD
	<b>Location &amp; area of the STP:</b>	Below Ground level
	<b>Budgetary allocation (Capital cost):</b>	4700000
	<b>Budgetary allocation (O &amp; M cost):</b>	178000
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	<b>Disposal of the construction waste debris:</b>	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	492 Kg/day
	<b>Wet waste:</b>	738 Kg/day
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	16 Kg/day
	<b>Others if any:</b>	Not Applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Will be handed over to Local Recyclers
	<b>Wet waste:</b>	Will be processed in the OWC. manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	To be used as manure & replacement of saw dust for OWC
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Located at Ground Level
	<b>Area for the storage of waste &amp; other material:</b>	53.728
	<b>Area for machinery:</b>	2.772
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	1000000
	<b>O &amp; M cost:</b>	200000
<b>37.Effluent Charecterestics</b>		



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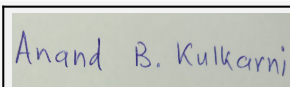
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)		
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Amount of effluent generation (CMD):		Not applicable					
Capacity of the ETP:		Not applicable					
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	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
39.Stacks emission Details							
Serial Number	Section & units	Fuel Used with Quantity		Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not applicable	Not applicable		Not applicable	Not applicable	Not applicable	Not applicable
40.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing		Proposed		Total	
1	Not applicable	Not applicable		Not applicable		Not applicable	
41.Source of Fuel		Not applicable					
42.Mode of Transportation of fuel to site		Not applicable					
43.Green Belt Development		Total RG area :		306.58 sq.mt			
		No of trees to be cut :		1 no.			
		Number of trees to be planted :		2 nos.			
		List of proposed native trees :		21 nos.			
		Timeline for completion of plantation :		At the end of construction phase			
44.Number and list of trees species to be planted in the ground							
Serial Number	Name of the plant	Common Name		Quantity		Characteristics & ecological importance	
1	Azardirachta Indica	Neem		03		Medicinal Tree	
2	Putranjiva roxburhi	Putranjiva		02		Medicinal Tree	
3	Plumeria rubra	Champa tree		03		Flowering Tree	



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4	Lagerstroemia flosregineae	Tamhan	03	Flowering Tree
5	Areca catechu	Supari	05	Shady tree
6	Caryota urens	Bherli Maad	02	Shady tree
7	Murraya paniculata	Kunti	03	Flowering Tree
<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	Not Applicable	Not Applicable	Not Applicable

#### 47.Energy

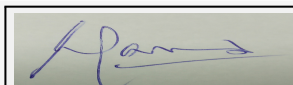
<b>Power requirement:</b>	Source of power supply :	Reliance
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 kW
	During Operation phase (Connected load):	980.7 kW
	During Operation phase (Demand load):	834 kW
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 X 320 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

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

Solar Based Street Lights for street and compound lighting  
LED Lights in Common Areas , Podiums , Lobbies

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

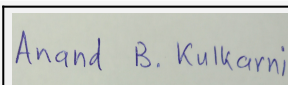
Serial Number	Energy Conservation Measures	Saving %
1	Common Area Lighting (Existing Bldg.) by Use Of T5 Lamp	22 %
2	Common Area Lighting (Existing Bldg.) by Use Of Electronic Ballast	18 %
3	Common Area Lighting by Use Of Solar	100 %
4	External Area Lighting (Existing Bldg.) by Use Of T5 Lamp	22 %
5	External Area Lighting (Existing Bldg.) by Use Of Electronic Ballast	18 %
6	External Area Lighting - Use Of Solar	100 %



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7	Balwadi,welfare Centre & Society Office (Existing Bldg.) - Use Of T5 Lamp	22 %
8	Balwadi,welfare Centre & Society Office (Existing Bldg.) - Use Of Electronic Ballast	18 %
9	Balwadi, Welfare Centre & Society Office (Proposed Bldg.) - Use Of Led	57%
10	LIFT LOAD - USE OF VFD	20%
11	Total Savings	22 %

### 50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	3570000
	O & M cost:	1780000

### 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	Water for Dust Suppression	200000
2	EHS	Site Sanitation	200000
3	Environmental Monitoring	Environmental Monitoring	600000
4	EHS	Disinfection	150000
5	EHS	Health Check Up	150000

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

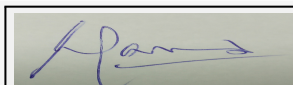
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	RWH	1500000	150000
2	Solid waste	OWC	1000000	200000
3	Water Environment	STP	4700000	150000
4	Energy	Solar system	3570000	1780000
5	Land Environment	Landscaping	100000	200000

### 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

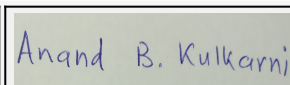
No Information Available



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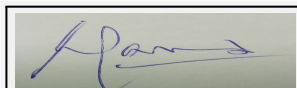
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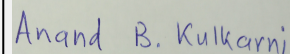
53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	The project site is accessible through 12.00 m wide D.P road.
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	128 sq.m
	Area per car:	32 sq.m
	Area per car:	32 sq.m
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	4 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide internal roads.
	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(b)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-02-2015
Brief information of the project by SEAC		



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PP informed that they have completed construction admeasuring 19,000 m2. Further, PP requested to appraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 19,000 m2 prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 3802.40 m2 & total construction area of the project is 27,581.55 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, presentation & plans submitted are taken on the record.

## DECISION OF SEAC

### During discussion following points emerged:

1. PP to submit undertaking on legal paper regarding construction undertaken is by them is less than 20,000 m2 & if it is false, PP is liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date.
2. Conditions stipulated in the MCZMAiç½??s recommendations should be strictly followed.
3. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Honiç½??ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

***After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.***

### **Specific Conditions by SEAC:**

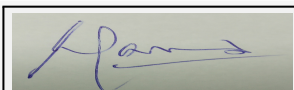
## SEIAA DECISION

Approved

### **Specific Conditions by SEIAA:**

## FINAL RECOMMENDATION

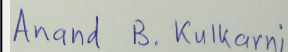
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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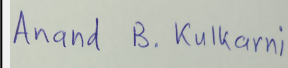
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
<b>Subject:</b> Environment Clearance for Proposed Residential Development at Plot Bearing S.No.37 (Old 283/A), At Village Dhokali, Tal. & Dist. Thane (Appraised in 50th A SEAC II meeting and recommended for SEIAA)			
<b>General Information:</b> SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	Proposed Residential Development at Plot Bearing S.No.37 (Old 283/A), At Village Dhokali, Tal. & Dist. Thane		
2.Type of institution	Private		
3.Name of Project Proponent	M/S. Vijay Associates Wadhwa 301, PLATINA, Plot No. C-59, G block, Bandra Kurla Complex, Mumbai ? 98		
4.Name of Consultant	Name-Mr. H.K. Desai Address: M/s. Enviro Analysts and Engineers Pvt. Ltd. B-1003, Enviro House, 10th Flr. Western Edge II, Western Express Highway, Borivali (E), Mumbai-400 066. Tel.: 28541647/48/67/68, Fax: 28541290 Mobile No. : 9324430071, Email ID: hkdesai5@gmail.com		
5.Type of project	Proposed Residential Project		
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable		
8.Location of the project	Plot bearing S.No.37 (Old 283/A), At Village Dhokali, Tal. & Dist. Thane		
9.Taluka	Thane		
10.Village	Dhokali		
11.Area of the project	Thane Municipal Corporation (TMC)		
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate <b>IOD/IOA/Concession/Plan Approval Number:</b> Old 2003/94F (New S505/0100/15) TMC/TDD/1599/15 dated 15th December 2015 <b>Approved Built-up Area:</b> 17316		
13.Note on the initiated work (If applicable)	Construction is started. Completed construction area till date= 9,350 Sq. m.		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable		
15.Total Plot Area (sq. m.)	11,352.58 Sq. m.		
16.Deductions	2460.43 Sq. m.		
17.Net Plot area	balance plot area = 8892.15 Sq. m.		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 17,316.42 b) Non FSI area (sq. m.): 17,022.83 c) Total BUA area (sq. m.): 34,339.25		
19.Total ground coverage (m2)	5790.56 on balance plot area		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	65.12		
21.Estimated cost of the project	1480000000.00		
<b>22.Number of buildings &amp; its configuration</b>			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 19	L. St +U. St + podium + 27 floor	89.60
2	Building No. 20	U. St + podium + 24 floor	80.45
23.Number of tenants and shops	Residential units ? 195 nos. Shops - 17 nos.		



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24.Number of expected residents / users	1,086 Nos.
25.Tenant density per hectare	116 T/H
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	Abutting 40 m. wide DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 7.5 m wide
29.Existing structure (s) if any	There was no existing no structure
30.Details of the demolition with disposal (If applicable)	NA

### 31.Production Details

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

### 32.Total Water Requirement

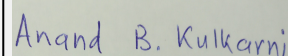
Dry season:	Source of water	TMC & Recycled Water
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	46 Cum/day
	Recycled water - Gardening (CMD):	6 Cum/day
	Swimming pool make up (Cum):	6 Cum/day- make up water
	Total Water Requirement (CMD) :	149 Cum/day
	Fire fighting - Underground water tank(CMD):	300 Cum
	Fire fighting - Overhead water tank(CMD):	20 cum per building
	Excess treated water	66 Cum/day



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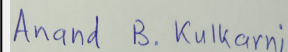
Wet season:	Source of water	TMC & Recycled Water								
	Fresh water (CMD):	91								
	Recycled water - Flushing (CMD):	46 Cum/day								
	Recycled water - Gardening (CMD):	0 Cum/day								
	Swimming pool make up (Cum):	6 Cum/day- make up water								
	Total Water Requirement (CMD) :	143 Cum/day								
	Fire fighting - Underground water tank(CMD):	300 Cum								
	Fire fighting - Overhead water tank(CMD):	20 cum per building								
	Excess treated water	72 Cum/day								
Details of Swimming pool (If any)	6 KLD Make up water									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	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	
34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Ground water table water was observed up to 6m								
	Size and no of RWH tank(s) and Quantity:	NA								
	Location of the RWH tank(s):	NA								
	Quantity of recharge pits:	4 No?s of recharge pits and 1 No?s of roof top units have been proposed								
	Size of recharge pits :	3.00 m x 3.00 m x 4.00 m								
	Budgetary allocation (Capital cost) :	Rs. 8 Lakhs								
	Budgetary allocation (O & M cost) :	Rs. 1.5 Lakh/annum								
	Details of UGT tanks if any :	Fire Tank-300 Cum Domestic Water Tank- 92 Cum Flush Water Tank -46 Cum  Location ? Lower Stilt Level								



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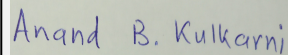
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	towards north east
	<b>Quantity of storm water:</b>	
	<b>Size of SWD:</b>	Size of Trench = 0.60m x 0.60m
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	118
	<b>STP technology:</b>	MBBR
	<b>Capacity of STP (CMD):</b>	1 No.s of 120 KLD
	<b>Location &amp; area of the STP:</b>	Lower Ground Level, AREA OF STP:100 Sq.Mts
	<b>Budgetary allocation (Capital cost):</b>	Rs. 25 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 3 Lakhs/annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Steel- 45MT, Block Work- 453 Sq.m. , Internal Gypsum-2100 Sq.m, External Plaster-270 Sq.m, Flooring/Tiling/Dado-1470 Sq.m, Internal Painting- 282 cans, Windows- 219 Sq m, Door Frame/shutter- 20 Nos.
	<b>Disposal of the construction waste debris:</b>	Steel- Shall be sold to recycler , Block Work- Shall be sold to recycler , Internal Gypsum, External Plaster- Plastering waste Shall be used for raft foundation, Flooring/Tiling/Dado- Tiles shall be used for china mosaic water proofing of terraces. , Internal Painting- Paint cans shall be sold to authorized recyclers., Windows- , Door Frame/shutter- Shall be sold to authorized recycler
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	214 Kg/day
	<b>Wet waste:</b>	301 Kg/day
	<b>Hazardous waste:</b>	if generated shall be disposed off as per norms.
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	shall be used as manure
	<b>Others if any:</b>	No
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non-biodegradable waste will be recycled/ reused/sold/handed over to local authorized vendors.
	<b>Wet waste:</b>	Biodegradable waste will be treated in OWC. Manure obtained will be used for landscaping
	<b>Hazardous waste:</b>	if generated shall be disposed off as per norms.
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	shall be used as manure
	<b>Others if any:</b>	No
<b>Area requirement:</b>	<b>Location(s):</b>	Lower Stilt Level
	<b>Area for the storage of waste &amp; other material:</b>	Biodegradable: No. of bins required of 240 lit capacity-2, No. of bins required of 240 lit capacity-2
	<b>Area for machinery:</b>	Total area required- 50.41Sq.mts



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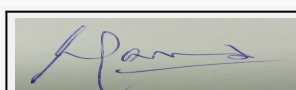
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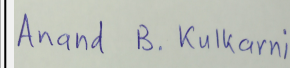
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 10 Lakhs					
	<b>O &amp; M cost:</b>	Rs. 1.5 Lakhs/annum					
<b>37.Effluent Charecterestics</b>							
<b>Serial Number</b>	<b>Parameters</b>	<b>Unit</b>	<b>Inlet Effluent Charecterestics</b>	<b>Outlet Effluent Charecterestics</b>	<b>Effluent discharge standards (MPCB)</b>		
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					
<b>38.Hazardous Waste Details</b>							
<b>Serial Number</b>	<b>Description</b>	<b>Cat</b>	<b>UOM</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Method of Disposal</b>
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>39.Stacks emission Details</b>							
<b>Serial Number</b>	<b>Section &amp; units</b>	<b>Fuel Used with Quantity</b>	<b>Stack No.</b>	<b>Height from ground level (m)</b>	<b>Internal diameter (m)</b>	<b>Temp. of Exhaust Gases</b>	
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
<b>40.Details of Fuel to be used</b>							
<b>Serial Number</b>	<b>Type of Fuel</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>			
1	Not applicable	Not applicable	Not applicable	Not applicable			
41.Source of Fuel		Not applicable					
42.Mode of Transportation of fuel to site		Not applicable					
<b>43.Green Belt Development</b>							
<b>Total RG area :</b>		2. Total RG area under green belt:1662.35 sq. m RG area required on ground: 458.35 sq. m. RG area provided on Ground: 462.72 sq. m. RG area provided on podium: 1,199.63 sq. m					
<b>No of trees to be cut :</b>		nil					
<b>Number of trees to be planted :</b>		115 Nos.					
<b>List of proposed native trees :</b>		enclosed as below					
<b>Timeline for completion of plantation :</b>		till completion of construction phase					
<b>44.Number and list of trees species to be planted in the ground</b>							



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Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadiracta indica	Neem Tree	10	Native tree, medicinal value
2	Anthocephalus cadamba	Kadamb	10	Evergreen Tropical tree
3	Bombax cieba	Semal	5	Decisuous Tall tree , flowering tree
4	Alzibia lebbeck	shirish	5	medicinal value
5	Mangifera indica	Mango	10	shady, fruit bearing, prevents soil erosion
6	Delonix regia	Gulmohar	10	ornamental tree
7	Putranjiva roxburgii	Putranjeeva	10	Evergreen tree, medicinal value
8	Michelia champaca	sonchafa	3	fragrant, flowering tree
9	Cassia fistula	Bahava	5	Flowering tree with medicinal value
10	Tabebuia argentina	silver trumpet tree	5	showy tropical flowering tree
11	Lagerstroemia speciosa	Pride of India	20	flowering tree
12	Erythrina indica	pangara	8	spiny deciduous flowering tree
13	Mimusops elengi	Bakul	2	Flowering, food and medicinal value
14	Plumeria alba	chafa	2	flowering tree
15	Bauhinia purperia	Rakhthchandan	1	fragrant tree with medicinal value
16	Pisonia alba	Moon light tree	5	Bird catching tree
17	Mesua ferrea	Nag Champa	4	ornamental tree, with medicinal value

**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	Shrubs shall be provided on podium top.	-	-

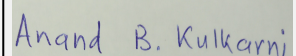
**47.Energy**



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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	100 kVA
	<b>DG set as Power back-up during construction phase</b>	-
	<b>During Operation phase (Connected load):</b>	5.20 MW
	<b>During Operation phase (Demand load):</b>	3.05 MW
	<b>Transformer:</b>	3 x 1000 KVA
	<b>DG set as Power back-up during operation phase:</b>	? Number and capacity of DG sets to be used: 1 X 625 KVA DG set
	<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:

Energy saving measures

- ? Natural shading through elevation features to minimize heat gain and reduce air conditioning requirement
- ? Use of low-e glass to reduce power requirement
- ? Large central atriums for natural cross ventilation
- ? Solar lightning in common areas , garden and road
- ? Solar heat water for residential buildings
- ? Solar street lights will be proposed
- ? Energy efficient lighting fixtures (LED lights) to all buildings

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

Serial Number	Energy Conservation Measures	Saving %
1	Percentage saving through renewable energy	10.66%

#### 50. Details of pollution control Systems

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

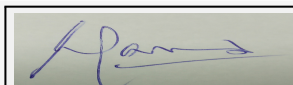
**Budgetary allocation (Capital cost and O&M cost):**

<b>Capital cost:</b>	Rs 35Lakhs
<b>O &amp; M cost:</b>	Rs. 02 Lakhs/annum

#### 51. Environmental Management plan Budgetary Allocation

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

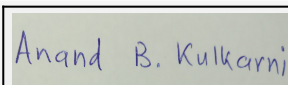
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Land Environment	Water for Dust Suppression	2
2	Health and Safety	Site Sanitation	2



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3	Environmental Monitoring	Environmental Monitoring - Air, Noise, Water, soil	6
4	Health and Safety	Disinfection	1.5
5	Health and Safety	Health Check Up	3.6

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	RWH	8	1.5
2	Land Environment	MSW	10	1.5
3	Water Environment	STP	25	3
4	Energy System	Energy System	35	2
5	Land Environment	Landscaping	50	5
6	Risk Assessment	DMP	420	19.9

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

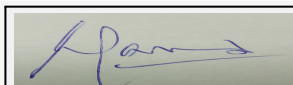
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**52.Any Other Information**

No Information Available

**53.Traffic Management**

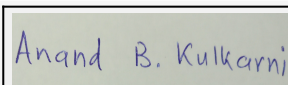
Nos. of the junction to the main road & design of confluence:	40 Meter wide Kolshet Road is abutting
---------------------------------------------------------------	----------------------------------------



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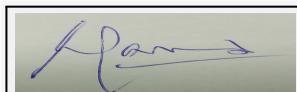
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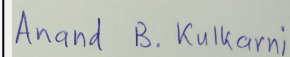
<b>Parking details:</b>	<b>Number and area of basement:</b>	NA
	<b>Number and area of podia:</b>	3,458.10 Sq.m.
	<b>Total Parking area:</b>	10236.9 Sq.m.
	<b>Area per car:</b>	25.2 Sq.m. (Overall)
	<b>Area per car:</b>	25.2 Sq.m. (Overall)
	<b>Number of 2-Wheelers as approved by competent authority:</b>	223 No's
	<b>Number of 4-Wheelers as approved by competent authority:</b>	406 No's
	<b>Public Transport:</b>	NA
	<b>Width of all Internal roads (m):</b>	Width of Internal Roads= 7.5 m (Driveway)
	<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. Project is out of ESZ of SGNP as per Notification dated 5th Dec, 2016
	<b>Category as per schedule of EIA Notification sheet</b>	8 (a)
	<b>Court cases pending if any</b>	no
	<b>Other Relevant Informations</b>	the said project has been appraised in 50th A SEAC II meeting and recommended to SEIAA. Compliance has been submitted in hard copy in SEIAA dated 22.12.2016, also we will be attaching soft copy of compliance in the said website as per protocol
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	28-07-2016
<b>Brief information of the project by SEAC</b>		



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Representative of PP, Avinash Lakh & Architect Sandip Prabhu were present during the meeting along with environmental consultant M/s EAEPL. PP informed that they have received CC dated 15/12/2015.

PP informed that they have completed construction admeasuring 9350 m2 as per CC dated 15/12/2015. Further, PP requested to reappraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 9350 m2 prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 11,352.58 m2 & total construction area of the project is 34,339.25 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record

## DECISION OF SEAC

### During discussion following points emerged:

1. PP & Architect to submit undertaking on legal paper regarding construction undertaken is by them is less than 20,000 m2 & if it is false, PP is liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date. 2. PP to submit copy of CFO NOC obtained dated 4/2/2014.
3. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Honiç½??ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

***After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.***

### Specific Conditions by SEAC:

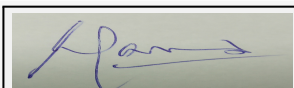
## SEIAA DECISION

Approved

### Specific Conditions by SEIAA:

## FINAL RECOMMENDATION

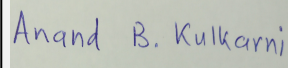
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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## SEIAA Meeting 2017

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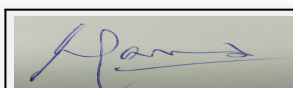
**Subject:** Environment Clearance for PROPOSED RESIDENTIAL CUM COMMERCIAL PROJECT

**General Information:** SEIAA Meeting 109 on 18th April 2017

<b>1.Name of Project</b>	Proposed Construction of Residential cum commercial Project at Plot Bearing S. No. 131, H. No. 5 & 6, S. No. 133, H. No. 2, 3, S. No. 139, H.No. 5, 15, 17/1, S.No. 140, H. No. 2/5, at village - Virar, Tal- Vasai, District- Palghar
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Mr. Hemant Mhatre
<b>4.Name of Consultant</b>	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. Ltd
<b>5.Type of project</b>	MHADA, Residential cum commercial project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	New Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not applicable
<b>8.Location of the project</b>	Plot Bearing S. No. 131, H. No. 5 & 6, S. No. 133, H. No. 2, 3, S. No. 139, H.No. 5, 15, 17/1, S.No. 140, H. No. 2/5, at village -Virar, Tal- Vasai, District- Palghar
<b>9.Taluka</b>	Vasai
<b>10.Village</b>	Virar
<b>11.Area of the project</b>	Vasai-Virar City Municipal Corporation (VVCMC)
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	CC and Approved Layout plan obtained from VVCMC by its vide letter VVCMC/TP -C.C. VP/5330/3878/2014-15 dated 29.01.2015
	<b>IOD/IOA/Concession/Plan Approval Number:</b> CC and Approved Layout plan obtained from VVCMC by its vide letter VVCMC/TP -C.C. VP/5330/3878/2014-15 dated 29.01.2015
	<b>Approved Built-up Area:</b> 77620.53
<b>13.Note on the initiated work (If applicable)</b>	No work started
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	CC and Approved Layout plan obtained from VVCMC by its vide letter VVCMC/TP -C.C. VP/5330/3878/2014-15 dated 29.01.2015
<b>15.Total Plot Area (sq. m.)</b>	58510 m <sup>2</sup>
<b>16.Deductions</b>	10,825.24 m <sup>2</sup>
<b>17.Net Plot area</b>	47,684.76 m <sup>2</sup>
<b>18.Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> 57,749.76
	<b>b) Non FSI area (sq. m.):</b> 46,282.1
	<b>c) Total BUA area (sq. m.):</b> 1,04,031.86
<b>19.Total ground coverage (m<sup>2</sup>)</b>	10416.26
<b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b>	21.84 %
<b>21.Estimated cost of the project</b>	3000000000

## 22.Number of buildings & its configuration

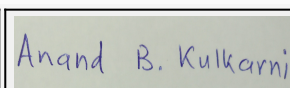
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	R zone-Building No. 1	Wings: A, B & C -(G+16)	-
2	R zone-Building No. 2	Wings: A & B-(ST+21)	-
3	R zone-Building No. 3	Wings: A ,B,C,D,E & E-(G+16)	-
4	R zone-Building No. 4	Wings: A ,B & C-(G+16)	-
5	R zone-Building No. 5	ST+16	-
6	R zone-Building No. 6	Wings: A, B & C-(ST+16)	-



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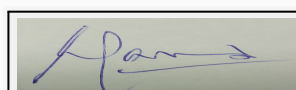
7	R zone-Building No. 7	B1 (BUNGALOW)-(G+1)	-
8	R zone-Building No. 8	B2 (BUNGALOW)-(G+1)	-
9	R zone-Building No. 9	G+7	-
10	R zone-C.F.C. 1	ST+2	-
11	G Zone- Building No. 1	ST+1	-
12	G Zone- Building No. 2	Wings-A,B,C & D: (ST+4)	-
13	G Zone- BUNGALOW-1 to 11	G+1	-
14	G Zone- ROW HOUSES-1 to 7	G+1	-
15	G Zone- C.F.C. 2	ST+2	-
16	MHADA Building	Wings: A,B,C,D,E,F & G- (ST+4)	-

<b>23.Number of tenants and shops</b>	1,532 Flats with 42 shops. ,11 Bungalows, 7 Row houses and 2 C.F.C.s
<b>24.Number of expected residents / users</b>	8,114 Nos
<b>25.Tenant density per hectare</b>	271/ha
<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>	40.0 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>	Min 9 m
<b>29.Existing structure (s) if any</b>	Not applicable
<b>30.Details of the demolition with disposal (If applicable)</b>	Not applicable

### 31.Production Details

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

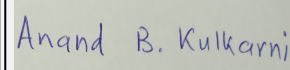
### 32.Total Water Requirement



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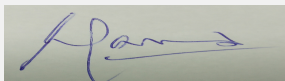
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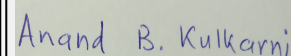
Dry season:	Source of water	VVCMC								
	Fresh water (CMD):	703 KLD								
	Recycled water - Flushing (CMD):	360 KLD								
	Recycled water - Gardening (CMD):	55 KLD								
	Swimming pool make up (Cum):	-								
	Total Water Requirement (CMD) :	1063 KLD								
	Fire fighting - Underground water tank(CMD):	As per CFO NOC								
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC								
	Excess treated water	568 KLD								
Wet season:	Source of water	VVCMC								
	Fresh water (CMD):	495 KLD								
	Recycled water - Flushing (CMD):	360 KLD								
	Recycled water - Gardening (CMD):	-								
	Swimming pool make up (Cum):	-								
	Total Water Requirement (CMD) :	1063 KLD								
	Fire fighting - Underground water tank(CMD):	As per CFO NOC								
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC								
	Excess treated water	623 KLD								
Details of Swimming pool (If any)		Not applicable								
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	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	



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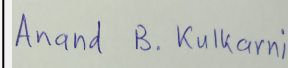
<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	3 ? 4 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	6 RWH tank of total 400 m3 holding capacity
	<b>Location of the RWH tank(s):</b>	Underground
	<b>Quantity of recharge pits:</b>	--
	<b>Size of recharge pits :</b>	--
	<b>Budgetary allocation (Capital cost) :</b>	48 Lacs
	<b>Budgetary allocation (O &amp; M cost) :</b>	2.5 Lacs/year
	<b>Details of UGT tanks if any :</b>	Under ground
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Toward South West direction of plot
	<b>Quantity of storm water:</b>	10,576.8 m3/hr
	<b>Size of SWD:</b>	500 x 600 mm and 700 x 900 mm
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	992 KLD
	<b>STP technology:</b>	MBBR Technology
	<b>Capacity of STP (CMD):</b>	Total capacity 1000 KLD (2 x 300 KLD, 1 x 400 KLD)
	<b>Location &amp; area of the STP:</b>	Ground
	<b>Budgetary allocation (Capital cost):</b>	204 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	41 Lacs/year
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction debris: 3,021 m3
	<b>Disposal of the construction waste debris:</b>	The construction debris is utilized at site for leveling.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	1,580 kg/day
	<b>Wet waste:</b>	2,368 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	10 m3/day
	<b>Others if any:</b>	Household E-Waste generation



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<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Dry garbage will be segregated & disposed off to recyclers
	<b>Wet waste:</b>	Wet garbage will be composted using Mechanical Composting and used as organic manure for landscaping.
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Sludge use as manure for gardening
	<b>Others if any:</b>	The household E- waste shall be handed over to E-waste management vendor authorized by MPCB
<b>Area requirement:</b>	<b>Location(s):</b>	Location on Ground
	<b>Area for the storage of waste &amp; other material:</b>	1665 m2
	<b>Area for machinery:</b>	90 m2
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	60 Lacs
	<b>O &amp; M cost:</b>	24 Lacs/year

### 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

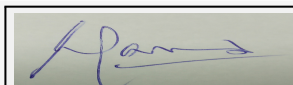
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 40. Details of Fuel to be used

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

41. Source of Fuel

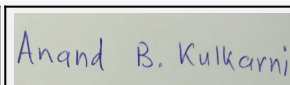
Not applicable



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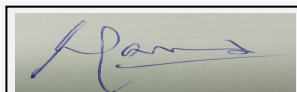
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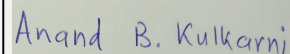
42.Mode of Transportation of fuel to site		Not applicable		
43.Green Belt Development	Total RG area :	10,988.86 m2		
	No of trees to be cut :	NA		
	Number of trees to be planted :	550 Nos.		
	List of proposed native trees :	550 Nos.		
	Timeline for completion of plantation :	1 Years		
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadiracta indica	Neem	73	Large tree, good for roadside plant
2	Alstonia scholaris	Satwin	86	Shady Tree, white fragrant flowers
3	Saraca asoka	Sita Ashok	76	Shady tree with red-yellow flowers.
4	Mimusops elengi	Bakul	83	Shady tree, small white fragrant flowers
5	Butea monosperma	Palas	72	Medium sized deciduous tree. Beautiful orange
6	Pongamia pinnata	Karanj	78	Shady tree
7	Anthocephallus cadamba	Kadamb	82	Shady, large tree, ball shaped flowers.
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	Vitex negundo	-	-	
2	Adhatoda vasica	-	-	
3	Plumbago zeylanica	-	-	
4	Ziziphus mauritiana	-	-	
47.Energy				



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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	200 kVA
	<b>DG set as Power back-up during construction phase</b>	200 kVA
	<b>During Operation phase (Connected load):</b>	7.8 MW
	<b>During Operation phase (Demand load):</b>	4 MW
	<b>Transformer:</b>	-
	<b>DG set as Power back-up during operation phase:</b>	1000 kVA capacity : (1 x 500 kVA, 1 x 400 kVA & 1 x 100 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:

1. Energy efficient lighting using LEDs
2. Use of high energy efficient pumps for fire fighting, UG tanks and STP
3. Solar Street lights are proposed for common areas such as open spaces, pathways, RG etc.
4. Solar Hot Water system will be proposed
5. Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement

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

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving is 21.15% as compared to Conventional Base Case	21.15 %
2	Total Energy saving from renewable source (Solar Hot Water) is 16.80 % as per Efficient proposed case	16.80 %

#### 50. Details of pollution control Systems

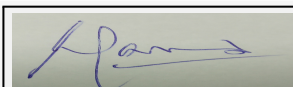
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	167 Lacs
	<b>O &amp; M cost:</b>	8.5 Lacs/year

#### 51. Environmental Management plan Budgetary Allocation

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

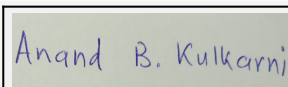
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	5
2	Site sanitation (Toilets)	-	6



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3	Environmental Monitoring	-	3
4	Potable Water Supply to Labour Camp	-	5
5	Health check-up & first aid	-	6
6	Safety Personal Protective Equipment	-	10
7	Traffic Management	-	3
8	Safety nets	-	12
9	Tyre cleaning and Vehicle maintenance	-	3
10	Solid Waste Management & Site maintenance activity	-	4
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	7

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	204	41
2	Solar System	Quarterly	167	8.5
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	48	2.5
4	Solid waste Composting plant	Continuous O & M	60	24
5	Landscape development	Daily	95	14
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

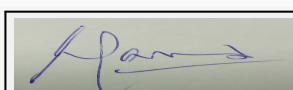
### 51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

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

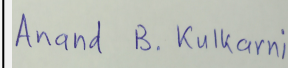
### 53.Traffic Management



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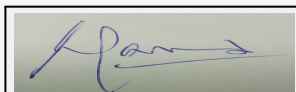
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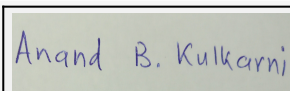
	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	The Project site is accessible by 40 m wide D.P. Road.
<b>Parking details:</b>	<b>Number and area of basement:</b>	NA
	<b>Number and area of podia:</b>	Parking below podium RG: 1450.50 m <sup>2</sup>
	<b>Total Parking area:</b>	14,207.50 m <sup>2</sup>
	<b>Area per car:</b>	-
	<b>Area per car:</b>	-
	<b>Number of 2-Wheelers as approved by competent authority:</b>	1,598 Nos
	<b>Number of 4-Wheelers as approved by competent authority:</b>	888 Nos
	<b>Public Transport:</b>	NA
	<b>Width of all Internal roads (m):</b>	6 m Min.
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Project site is 6.3 km away from Tungreshwar wild life sanctuary.
	<b>Category as per schedule of EIA Notification sheet</b>	8 (a)
	<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>	Yes
	<b>Date of online submission</b>	24-09-2014
<b>Brief information of the project by SEAC</b>		
<p>Representative of PP, Hemant Mhatre &amp; Architect Shabbir Hussain were present during the meeting along with environmental consultant M/s Mahabal. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 58,510 m<sup>2</sup> &amp; total construction area of the project is 1,04,031.86 m<sup>2</sup>. Project involves 9 residential buildings, 11 bungalows, 7 row houses, 1 MHADA building &amp; 2 common facility centres. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation &amp; plans submitted are taken on the record</p>		
<b>DECISION OF SEAC</b>		



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**During discussion following points emerged:**

1. PP to ensure that no possession shall be given before completion of the sewer lines & storm water drainage line and permission for the connection to the same by the competent authority. Local body to ensure the same.
2. PP to submit storm water drainage calculations considering the upper hilly catchment area.
3. PP to submit revised project specific Disaster Management Plan especially considering upper hilly area.
4. PP to submit letter of commitment for drinking water to the project from Municipal Corporation.
5. PP to ensure that BOD of the treated water should be 5 mg/lit.
6. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

***After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.***

**Specific Conditions by SEAC:**

**SEIAA DECISION**

Approved

**Specific Conditions by SEIAA:**

- 1) OC shall not be released by planning authority unless storm water drain and sewer drain connectivity are provided by local planning authority.

**FINAL RECOMMENDATION**

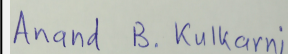
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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## SEIAA Meeting 2017

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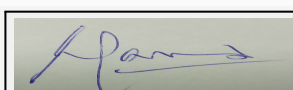
**Subject:** Environment Clearance for Proposed Intermediate and specialty chemicals (Synthetic organic chemicals) manufacturing unit for API by Galaxy Laboratories Pvt. Ltd. at Plot No. B-10, MIDC Newasa industrial area At Post. Shingve Tukai, Taluka. Newasa Dist. Ahmednagar

**General Information: SEIAA Meeting 109 on 18th April 2017**

1.Name of Project	Proposed Intermediate and specialty chemicals (Synthetic organic chemicals) manufacturing unit for API by Galaxy Laboratories Pvt. Ltd. at Plot No. B-10, MIDC Newasa industrial area At Post. Tukai - Shingve, Taluka. Newasa Dist. Ahmednagar
2.Type of institution	Private
3.Name of Project Proponent	Galaxy Laboratories Pvt. Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. B-10, MIDC Newasa industrial area At Post. Tukai - Shingve, Taluka. Newasa Dist. Ahmednagar
9.Taluka	Newasa
10.Village	Shingvetukai
11.Area of the project	MIDC Newasa
12.IOD/IOA/Concession/Plan Approval Number	MIDC Newasa <b>IOD/IOA/Concession/Plan Approval Number:</b> MIDC plot plan approval <b>Approved Built-up Area:</b> 32716.67
13.Note on the initiated work (If applicable)	Not applicable.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	48,400 sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.): Not applicable
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	143000000

## 22.Number of buildings & its configuration

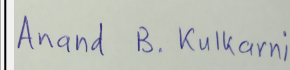
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not applicable		



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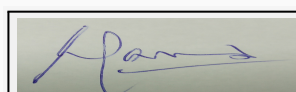
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<b>25.Tenant density per hectare</b>	Not applicable
<b>26.Height of the building(s)</b>	
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	Not applicable
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Not applicable
<b>29.Existing structure (s) if any</b>	Existing facility has Hydrogenation plant which does not falls under EIA notification. Company has valid Consent to Operate for Hydrogenation facility.
<b>30.Details of the demolition with disposal (If applicable)</b>	Not applicable

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Hydrogen Gas	250 Nm3/Hr	--	250 Nm3/Hr
2	Furfuraldehyde (Fufural)	--	50 TPM	50 TPM
3	Furfuryl Alcohol	--	30 TPM	30 TPM
4	Furfuryl Amine	--	40 TPM	40 TPM
5	Cyclohexenyl Ethyl Amine (CHEA)	--	10 TPM	10 TPM
6	Triclabendazole (Crude)	--	8.4 TPM	8.4 TPM
7	5-Chloro-4-Amino-2,1,3 Benzothiadiazole	--	2 TPM	2 TPM
8	2-Furoic Acid	--	5 TPM	5 TPM
9	Betaphenyl Ethyl Amine (BPEA)	--	20 TPM	20 TPM
10	Polly Allylamine Hydrochloride (PAAH)	--	13.5 TPM	13.5 TPM
11	Chlorohexanone (6-Chloro-2-Hexanone)	--	20 TPM	20 TPM
12	Furan	--	50 TPM	50 TPM
13	Spent acid (Byproduct)	--	42.5 TPM	42.5 TPM
14	Sodium hydrosulphide solution (Byproduct)	--	15.6 TPM	15.6 TPM
15	Potassium bromide salt solution (Byproduct)	--	185.5 TPM	185.5 TPM

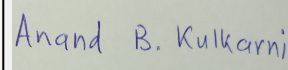
### 32.Total Water Requirement



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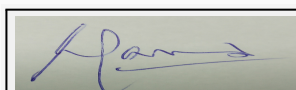


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Dry season:	Source of water	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD)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

### 33.Details of Total water consumed

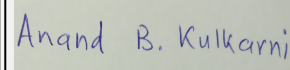
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1.8	26.2	28	0.36	2.64	3	1.44	23.56	25
Industrial Process	2.2	17.8	20	0	0	0	2.2	17.8	20
Cooling tower & thermopack	5	78	89	4.5	57.5	62	0.5	26.5	27
Gardening	9	19	28	9	19	28	0	0	0



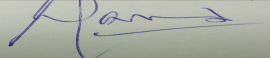
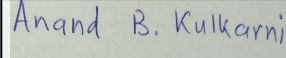
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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	--
	<b>Size and no of RWH tank(s) and Quantity:</b>	1 no. of Storm water / rain water storage tank of 12 x 12.5 x 2 m of 302 KL capacity
	<b>Location of the RWH tank(s):</b>	Near main gate
	<b>Quantity of recharge pits:</b>	--
	<b>Size of recharge pits :</b>	--
	<b>Budgetary allocation (Capital cost) :</b>	10 Lakh
	<b>Budgetary allocation (O &amp; M cost) :</b>	1 Lakh per Annum
	<b>Details of UGT tanks if any :</b>	Not Applicable
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	--
	<b>Quantity of storm water:</b>	--
	<b>Size of SWD:</b>	--
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	25 cmd
	<b>STP technology:</b>	Not applicable. Sewage will be added in Aeration tank of Proposed Effluent treatment plant.
	<b>Capacity of STP (CMD):</b>	--
	<b>Location &amp; area of the STP:</b>	--
	<b>Budgetary allocation (Capital cost):</b>	--
	<b>Budgetary allocation (O &amp; M cost):</b>	--
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Small quantity of debris will be generate.
	<b>Disposal of the construction waste debris:</b>	Construction waste debris will be reused for leveling of plot.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Fly Ash- 1850 TPA
	<b>Wet waste:</b>	Spent corn cob- 5000 TPA
	<b>Hazardous waste:</b>	ETP sludge, Distillation residue, Distillation residue (chlorinated), Contaminated filters/ bags, Process residue (iron sludge), Spent catalyst, Spent charcoal, Contaminated Drums/ Barrels/ Liners,
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
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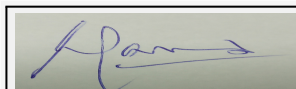
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Fly ash will be sent to brick manufacturer / secured landfill.
	<b>Wet waste:</b>	Spent corn con will be burnt as fuel in boiler/ Thermic Fluid heater.
	<b>Hazardous waste:</b>	Hazardous waste will be disposed off as per Hazardous waste rule, 2016
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Details given in EIA report.
	<b>Area for the storage of waste &amp; other material:</b>	Details given in EIA report.
	<b>Area for machinery:</b>	Details given in EIA report.
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	2 Lakh
	<b>O &amp; M cost:</b>	5 Lakh per Annum

### 37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	6-9	6.5-9	6.5-9
2	Chemical Oxygen Demand	mg/L	2500-3000	<250	250
3	Biological Oxygen Demand	mg/L	1000-1500	<100	100
4	Total Dissolved Solids	mg/L	1100-1200	<2100	2100
5	Total Suspended Solids	mg/L	150-200	<100	100
6	Oil & Grease	mg/L	<10	<10	10
7	Chlorides	mg/L	250-300	<600	600
8	Sulphates	mg/L	250-300	<1000	1000
Amount of effluent generation (CMD):		72 cmd			
Capacity of the ETP:		75 cmd			
Amount of treated effluent recycled :		72 cmd			
Amount of water send to the CETP:		Not Applicable. Unit will maintain Zero Liquid Discharge facility.			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Pre-treatment tank > Oil & Grease trap > Collection tank > Neutralization tank > Pri. clarifier > Aeration tank > Sec. clarifier > Sand filter > Activated carbon filter > Treated water tank			
Disposal of the ETP sludge		ETP sludge will be sent to CHWTSDF facility.			

### 38. Hazardous Waste Details

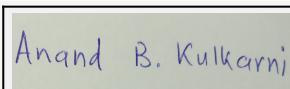
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from waste water treatment	35.3	TPA	0	30	30	CHWTSDF (landfill)
2	Distillation Residue	20.3	TPA	0	275	275	CHWTSDF/ Used as Fuel in Boiler



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3	Distillation Residue (chlorinated)	20.3	TPA	0	25	25	CHWTSDF
4	Contaminated filter/ Bags	33.2	TPA	0	2	2	CHWTSDF (incineration)
5	Process residue (iron sludge)	28.1	TPA	0	45	45	CHWTSDF (landfill)
6	Spent Catalyst	28.2	TPA	0	225	225	CHWTSDF/ Authorized Recycler/ Return to manufacturer
7	Spent Charcoal	28.3	TPA	0	40	40	CHWTSDF/ Used as Fuel in Boiler
8	Contaminated Drums/ Barrels/ liners	33.1	Nos./A	0	500	500	MPCB authorized Drum recycler

### 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	IBR Boiler (Existing)	Coal- 240 kg/day	1	30	--	--
2	Reactor (Existing)	--	2	11	--	--
3	320 KVA DG set (Existing)	HSD- 64 Lit/Hr	3	3.5	--	--
4	3 TPH Boiler	15 TPD	4	30	0.6	180
5	6 lakh kcal/hr Thermic Fluid Heater	1.7 TPD	5	30	0.35	240
6	HCl Scrubber	--	6	18	--	Ambient temp.
7	Ammonia scrubber	--	7	18	--	Ambient temp.
8	H2S scrubber	--	8	18	--	Ambient temp.

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	0.24 TPD	15 TPD	15.24 TPD
2	Furnace Oil	--	1.7 TPD	1.7 TPD
3	HSD	64 Lit/Hr	--	64 Lit/Hr

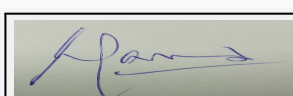
41.Source of Fuel From nearby vendors

42.Mode of Transportation of fuel to site By Road

--

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	Green Belt area: 11,718.63 sq. m.
	<b>No of trees to be cut :</b>	Not Applicable
	<b>Number of trees to be planted :</b>	Details given in EIA report
	<b>List of proposed native trees :</b>	Details given in EIA report
	<b>Timeline for completion of plantation :</b>	Details given in EIA report

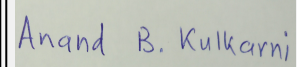
### 44.Number and list of trees species to be planted in the ground



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

45.Total quantity of plants on ground

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

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

#### 47.Energy

<b>Power requirement:</b>	Source of power supply :	Maharashtra State Electricity Distribution Co. Ltd
	During Construction Phase: (Demand Load)	320 KVA
	DG set as Power back-up during construction phase	320 KVA DG set (in case of emergency)
	During Operation phase (Connected load):	320 KVA
	During Operation phase (Demand load):	320 KVA
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	320 KVA DG set (in case of emergency)
	Fuel used:	HSD: 64 Lit/Hr (in case of emergency)
	Details of high tension line passing through the plot if any:	Not Applicable

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

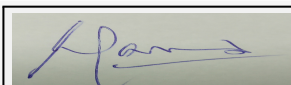
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#### 49.Detail calculations & % of saving:

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

#### 50.Details of pollution control Systems

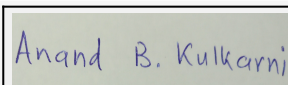
Source	Existing pollution control system	Proposed to be installed
Air pollution (Boiler, Thermic Fluid Heater, Scrubber)	--	Dust collector / bag filter/ Adequate Stack height
Water Pollution (Effluent generation)	--	Effluent treatment plant



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Noise pollution	--	Enclosure/ PPE
Solid & Hazardous waste	--	Disposed to CHWTSDF / Recycler
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	10 Lakhs
	<b>O &amp; M cost:</b>	--

## 51.Environmental Management plan Budgetary Allocation

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

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

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Air Pollution Control	20	2
2	Monitoring	Environment Monitoring	5	2
3	Water	Water Pollution Control	45	5
4	Solid waste	Hazardous waste & Solid waste management	2	5
5	Green Belt	Green Belt Development	2	3
6	Health & Safety	Occupational Health & Safety	--	2
7	CSR activities	Social welfare & upliftment	--	12
8	Other Green Initiatives	Rain Water Harvesting	10	1
9	Other Green Initiatives	Solar Power/LED	5	--
10	Other Green Initiatives	Energy Conservation	5	--

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

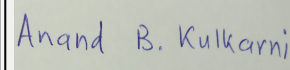
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Methanol	Existing	within plot	4 Nos. each 15 KL	15 KL	132	Nearby source	By Road tanker
Hydrogen Gas	Existing	within plot	120 Nos. (2.49 Kg per cylinder)	299 Kg	--	Nearby source	Pipeline
Methanol	Proposed	within plot	1 Nos. 15 KL	15 KL	same as above	Nearby source	By Road tanker



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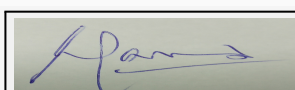
Toluene	Proposed	within plot	2 Nos. each 15 KL	15 KL	1.4 TPM	Nearby source	By Road tanker
Furnace Oil	Proposed	within plot	1 No. 15 KL	15 KL	51	Nearby source	By Road tanker
Ammonia tonner	Proposed	within plot	1 No	--	12.3 TPM	Nearby source	By Road

## 52.Any Other Information

No Information Available

## 53.Traffic Management

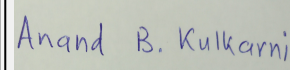
	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	5,817.76 sq. m.
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m wide road
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	5 (f)- B
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes



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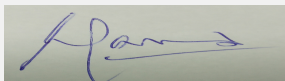
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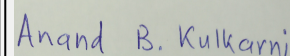
	<b>Date of online submission</b>	20-09-2016
<b>Brief information of the project by SEAC</b>		
PP gave a detailed presentation of their EIA report pertaining to manufacturing of APIs and Specialty Agro based Chemicals at their facility in Newasa MIDC. In addition to the existing facility for manufacturing of Hydrogen (18.72 lacs Nm <sup>3</sup> /annum) the proposed envisages 2984 TPA of such products in addition to 2923 TPA by-products. The Committee considered the EIA report and its presentation.		
<b>DECISION OF SEAC</b>		
After discussion the Committee made the following observations:		
<p>1. The process generates large quantum of Chloro compounds both in liquid effluents and solid wastes. The Committee feels that Chlorine should be totally eliminated from effluents to achieve BOD/COD ratio to 0.3-0.4. Similarly solid chloro compounds in the hazardous wastes should not sent to the CHWTSDF, since incineration can generate harmful Dioxenes and Furans. For this purpose PP should compulsorily eliminate Chloro compounds at source through Fenton/ H<sub>2</sub>O<sub>2</sub> treatment so as to mineralize the mother liquor after 1st and 2nd crops. The ensuing effluent treatment scheme is depicted in <b>Annexure 7.1</b>. The MPCB should verify the provisions of pre-treatment envisaged above before granting Consent to Operate.</p> <p>2. The emissions from 3 TPH boiler using coal as a fuel and 6 lac kcal/hr thermic fluid heater should be passed through bag filter of suitable efficiency to achieve an outlet TPM of less than 100 mg/Nm<sup>3</sup>. Stack height for both boiler and thermic fluid heater should not be less than 30m.</p> <p>3. The Consent certificate from MIDC for total water requirement of 100 CMD is given in the <b>Annexure 7.2</b>.</p> <p>4. The PP shall effect maximum solvent recovery. The spent solvents containing spent H<sub>2</sub>SO<sub>4</sub> and Sodium Hydrosulphide should be disposed of to vendors authorised by MPCB and should not be indiscriminately disposed of in the environment. The aqueous salt layer containing Bromine compound should be treated for crystallization of KBr and should be sold as by-product to authorised vendors only. 5. <b>Annexure 7.3</b> indicates the diagram showing various hazard management facilities. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration i.e. District Magistrate, Ahmednagar. There should be adequate dyke containment system for Ammonia, Chlorine and CS<sub>2</sub> (Carbon Disulphide). The baseline studies indicates that all aspects of environmental impact were within limit. However since the project is located in a fairly remote industrial area which does not have a CETP, the effluent management should be strictly followed by the PP. The Committee decided to <b>recommend the project from EC</b>, subject to the above conditions (1-5).</p>		
<b>Specific Conditions by SEAC:</b>		
<b>SEIAA DECISION</b>		
Approved		
<b>Specific Conditions by SEIAA:</b>		
1) Consent to operate shall be granted by MPCB only if PP has installed Zero Liquid Discharge facility		
<b>FINAL RECOMMENDATION</b>		
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions		



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## SEIAA Meeting 2017

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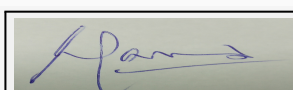
**Subject:** Environment Clearance for Residential Development with Shops

**General Information:** SEIAA Meeting 109 on 18th April 2017

1.Name of Project	Residential Development with Shops at Village Kanjur, Kanjurmarg (E), Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Kanakia Spaces Realty Pvt Ltd.
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Housing project . Category 8 (B2)
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	C.T.S No. 1015, 1015/1 to 3 of Village Kanjur, Kanjurmarg (East) Mumbai ? 400 042 State-Maharashtra
9.Taluka	Kurla
10.Village	Kanjur
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Received IOD (No. CE/1247/BPES/AS) dt. 22.12.2009 and Amended IOD (No. CE/1247/BPES/AS) dt. 31.12.2010
	<b>IOD/IOA/Concession/Plan Approval Number:</b> CE/1247/BPES/AS and Amended - CE/1247/BPES/AS
	<b>Approved Built-up Area:</b> 25621.01
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11500.60
16.Deductions	1231.05
17.Net Plot area	10269.55
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 25621.01
	b) Non FSI area (sq. m.): 21109.02
	c) Total BUA area (sq. m.): 46730.03
19.Total ground coverage (m2)	6398.74
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	62
21.Estimated cost of the project	2860000000

## 22.Number of buildings & its configuration

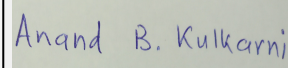
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A to C	Basement + Ground + Podium/Stilt + 21 Upper Floors	69.90
2	Wing D & E	Basement + Ground + Podium/Stilt + 20 Upper Floors	67.15
3	Wing F	Basement + Ground + Podium/Stilt + 1 Upper Floor	12.05
4	Wing G	Basement + Ground Floor	4.50



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<b>23.Number of tenants and shops</b>	Flats: 414 Nos. Shops: 6 Nos.
<b>24.Number of expected residents / users</b>	Total Occupancy: 2088 Nos.
<b>25.Tenant density per hectare</b>	408
<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>	18.30m wide Kanjur Village Road
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Minimum 7.5 m
<b>29.Existing structure (s) if any</b>	Debris/Excavation material partly shall be reused and partly shall be disposed to authorized landfill sites
<b>30.Details of the demolition with disposal (If applicable)</b>	Debris/Excavation material partly shall be reused and partly shall be disposed to authorized landfill sites

### 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

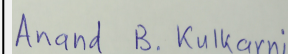
Dry season:	<b>Source of water</b>	M.C.G.M.
	<b>Fresh water (CMD):</b>	186
	<b>Recycled water - Flushing (CMD):</b>	94
	<b>Recycled water - Gardening (CMD):</b>	19
	<b>Swimming pool make up (Cum):</b>	2
	<b>Total Water Requirement (CMD) :</b>	301
	<b>Fire fighting - Underground water tank(CMD):</b>	300 KL
	<b>Fire fighting - Overhead water tank(CMD):</b>	75 KL
	<b>Excess treated water</b>	106



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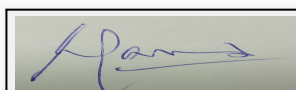
Wet season:	Source of water	M.C.G.M.
	Fresh water (CMD):	For Domestic: From M.C.G.M. = 173 KLD & From RWH tank = 13 KLD
	Recycled water - Flushing (CMD):	94
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	282
	Fire fighting - Underground water tank(CMD):	300 KL
	Fire fighting - Overhead water tank(CMD):	75 KL
	Excess treated water	125
Details of Swimming pool (If any)	Volume of swimming pool = 2703	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5m to 6m below ground level
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of capacity 120 KL
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 15.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.66 Lakh/annum
	Details of UGT tanks if any :	Location of the UGT tanks: Basement Level

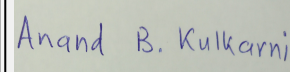
35.Storm water drainage	Natural water drainage pattern:	The storm water collected through the storm water drains of adequate capacity will be discharged into the external SWD.
	Quantity of storm water:	0.21 m3/sec
	Size of SWD:	3 discharge points of size 450mm wide channel with slope 1: 300



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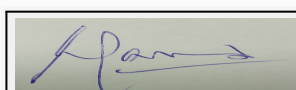
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	243
	<b>STP technology:</b>	MBBR (Moving Bed Bio Reactor)
	<b>Capacity of STP (CMD):</b>	270 KL
	<b>Location &amp; area of the STP:</b>	Basement Level. Area : 260 Sq. m.
	<b>Budgetary allocation (Capital cost):</b>	Rs. 74.30 Lakh
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 15.35 Lakh/annum

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Debris/Excavation material partly shall be reused and partly shall be disposed to authorized landfill sites.
	<b>Disposal of the construction waste debris:</b>	The construction waste shall be partly reused within plot and partly shall be disposed to Authorized landfill site.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	282 kg/day
	<b>Wet waste:</b>	652 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	36 Kg/day
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Non recyclable: To M.C.G.M. and Recyclable: To recyclers
	<b>Wet waste:</b>	Organic Waste Converter (OWC)
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Use as manure within the premises for plants.
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Basement
	<b>Area for the storage of waste &amp; other material:</b>	50 Sq.m.
	<b>Area for machinery:</b>	12 Sq. m.
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs.9.00 Lakh
	<b>O &amp; M cost:</b>	Rs. 2.71 Lakh /annum

### 37.Effluent Charecterestics

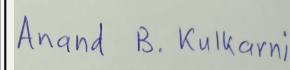
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			



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Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

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

41.Source of Fuel

Not applicable

42.Mode of Transportation of fuel to site

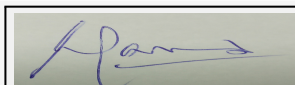
Not applicable

### 43.Green Belt Development

Total RG area :	2703.30 Sq. m.
No of trees to be cut :	7 nos.
Number of trees to be planted :	191 nos.
List of proposed native trees :	As given below in List of proposed plantation on ground
Timeline for completion of plantation :	Before occupation

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

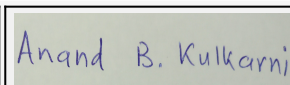
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Areca chatechu	Supari	10	It is a medium-sized and palm tree, The seed contains alkaloids such as arecaine and arecoline, which, Used as an interior landscaping species, Nuts are used for chewing.
2	Mimusops elengi	Bakul	15	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine



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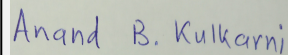
3	<i>Azadirachta indica</i>	Neem	13	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
4	<i>Cassia fistula</i>	Bahava	15	Medium sized deciduous tree. Beautiful yellow flowers, it is relatively drought tolerant and slightly salt tolerant. It has medicinal properties, Butterfly host plant.
5	<i>Casuarina equisetifolia</i>	Suru	5	The wood of this tree is used for shingles, fencing, and is said to make excellent hot-burning firewood., are also grown for erosion prevention, and in general as wind breaking elements.
6	<i>Lagestroemia flos-regianae</i>	Tamhan	15	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, it has medicinal properties, wood is commercially used. Helps to control soil erosion
7	<i>Michelia champaca</i>	Son Chapha	25	Medium sized evergreen tree, strongly fragrant yellow flowers used in perfume industry, Butterfly host plant
8	<i>Murraya paniculata</i>	Kamini	15	Traditionally, <i>Murraya paniculata</i> is used both in traditional medicine as an analgesic and for wood (for tool handles). In the West, <i>Murraya paniculata</i> is cultured as an ornamental tree or hedge because of its hardiness, wide range of soil tolerance ( <i>M. paniculata</i> may grow in alkaline, clayey, sandy, acidic and loamy soils), and is suitable for larger hedges
9	<i>Neolamarkia cadamba</i>	Kadamba	5	It is a quick growing , large traffic like spreading branches, its fragment orange flowers attracts pollinators, it helps in improving physical and chemical properties of soil, Shady, large tree, ball shaped flowers. It acquires profitable medicinal and commercial properties.
10	<i>Plumeria alba</i>	Chapha	10	<i>P. alba</i> is often cultivated as an ornamental plant.n addition, the flowers are edible and eaten as fritters, while the heart of the wood is part of a traditional medical preparation taken as a vermifuge or as a laxative.
11	<i>Saraca asoca</i>	Sita Ashok	28	Shady evergreen tree with red-yellow flowers.
12	<i>Delonix regia</i>	Gulmohar	20	Grown as an ornamental tree, Shady trees, orange-red petals attracts birds and petals. It is planted as an ornamental tree.



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13	Peltophorum pterocarpum	Copper Pod	15	The tree is widely grown in tropical regions as an ornamental tree, The wood has a wide variety of uses, including cabinet-making[6] and the foliage is used as a fodder crop
----	-------------------------	------------	----	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

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

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

**47.Energy**

<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	as per requirement
	During Operation phase (Connected load):	8935 KW
	During Operation phase (Demand load):	4119 KW
	Transformer:	2Nos ? 1000kva & 1No. ? 630Kva with diversity factor
	DG set as Power back-up during operation phase:	1 DG set of 625 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

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

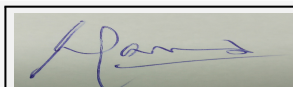
? Use of Solar lights for Common area and external lighting  
 ? Use LED lights  
 ? Use of high efficiency motor pumps with Sensors

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

Serial Number	Energy Conservation Measures	Saving %
1	? Use of Solar lights for Common area and external lighting ? Use LED lights ? Use of high efficiency motor pumps with Sensors	24 %

**50.Details of pollution control Systems**

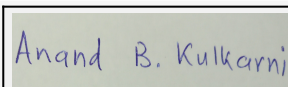
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable



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<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs.38.00 Lakh (Solar system)
	<b>O &amp; M cost:</b>	Rs. 1.90 Lakh/annum (Solar system)

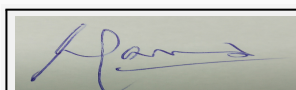
## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust Suppression	2.16
2	Air Environment	Air & Noise Quality Monitoring - On site sensors	10.00
3	Air Environment	Air & Noise Quality Monitoring - By outside MOEF Approved Laboratory	0.66
4	Water Environment	Drinking water analysis	0.54
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection- Pest Control	3.60
7	Health & Hygiene	Health Check Up of workers	13.50
8	Cost towards disaster management	----	752.00

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

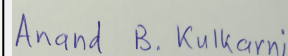
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Noise Environment & Biological Environment	Cost for Gardening	14.87	1.20
2	Air, Noise Environment & Biological Environment	Cost for Ambient air & Noise Monitoring	*No set up cost is involved	0.22
3	Air, Noise Environment & Biological Environment	Cost for DG Stack Exhaust Monitoring	*No set up cost is involved	0.05
4	Water Environment	Waste water treatment - Cost for sewage Treatment Plant	56.30	14.32
5	Water Environment	Cost for Waste water Monitoring - On site sensors	18.00	1.00
6	Water Environment	Cost for Waste water Monitoring - By outside MOEF Approved Laboratory	*No set up cost is involved	0.03
7	Water Environment	Water Conservation (Rain Water Harvesting System) - Cost for RWH tank	12.00	0.60



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8	Water Environment	Water Conservation (Rain Water Harvesting System) - Cost for treatment unit for rain water tanks	3.00	0.01
9	Water Environment	Water Conservation (Rain Water Harvesting System) - Cost for Rainwater Monitoring	*No set up cost is involved	0.05
10	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC	9.00	2.63
11	Land Environment (Solid Waste Management)	Cost for monitoring of organic manure	*No set up cost is involved	0.08
12	Energy Conservation	Solar system	38.00	1.90
13	Cost towards Disaster management	--	393.50	33.57

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

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

### 52.Any Other Information

No Information Available

### 53.Traffic Management

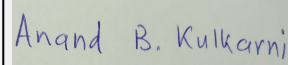
Nos. of the junction to the main road & design of confluence:	1 entry and 1 exist
---------------------------------------------------------------	---------------------



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(Member Secretary SEIAA)

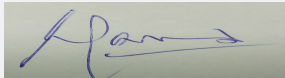
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**Shri. Anand Kulkarni**  
(Chairman SEIAA)

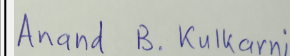
<b>Parking details:</b>	<b>Number and area of basement:</b>	1 Basement ,
	<b>Number and area of podia:</b>	1 Podium,
	<b>Total Parking area:</b>	9829.47 Sq. mt.
	<b>Area per car:</b>	As per NBC
	<b>Area per car:</b>	As per NBC
	<b>Number of 2-Wheelers as approved by competent authority:</b>	Permissible: Nil, Provision: 145 Nos.
	<b>Number of 4-Wheelers as approved by competent authority:</b>	Permissible: 565 Nos., Provision: 565 Nos.
	<b>Public Transport:</b>	NA
	<b>Width of all Internal roads (m):</b>	Minimum 6.0 mt.
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Sanjay Gandhi National Park: Within 2.00Km
	<b>Category as per schedule of EIA Notification sheet</b>	Category 8 (a)
	<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>	Yes
	<b>Date of online submission</b>	06-07-2016
<b>Brief information of the project by SEAC</b>		
<p>Representative of PP, Devang Shah &amp; Architect Manoj Duggal were present during the meeting along with environmental consultant M/s Ultratech. PP informed that they have received development permission from MCGM dated 17.05.2015 and I to R permission dated 17/07/2016. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 11,500.60 m<sup>2</sup> &amp; total construction area of the project is 46,730.03 m<sup>2</sup>. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation &amp; plans submitted are taken on the record</p>		
<b>DECISION OF SEAC</b>		



**Shri Satish.M.Gavai**  
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**During discussion following points emerged:**

1. PP to provide air cleaning system in basements. 2. Width of entry and exit gates should be 18 m.
3. Only 30% natural ventilation is available for the STP. PP to provide 30 air exchangers for adequate ventilation in the basement where STP is located.
4. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

***After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.***

**Specific Conditions by SEAC:**

**SEIAA DECISION**

Approved

**Specific Conditions by SEIAA:**

**FINAL RECOMMENDATION**

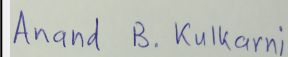
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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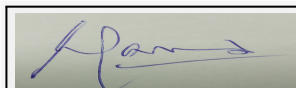
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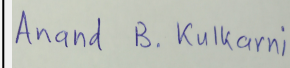
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
<b>Subject:</b> Environment Clearance for "Karm Panchatva 2" Proposed Residential & Commercial project at S. No. 55, 93, 94, 107-A, Village- Kasgaon, Tehsil- Shahpur, District - Thane, 421601			
<b>General Information:</b> SEIAA Meeting 109 on 18th April 2017			
1.Name of Project	?Karm Panchatva 2? Proposed Residential & Commercial project		
2.Type of institution	Private		
3.Name of Project Proponent	KARRM INFRASTRUCTURE PVT LTD		
4.Name of Consultant	Enviro Analysts & Engineers Pvt. Ltd.		
5.Type of project	Residential & Commercial Housing project		
6.New project/expansion in existing project/modernization/diversification in existing project	New Project		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA		
8.Location of the project	S. No. 55, 93, 94, 107-A		
9.Taluka	Shahpur		
10.Village	Kasgaon		
11.Area of the project	Kasgaon Gram Panchayat		
12.IOD/IOA/Concession/Plan Approval Number	Plans are approved by Thane town planning region IOD/IOA/Concession/Plan Approval Number: ??, ???,???? /???? /??,?????? /??, ????? /????? /? ? ? ? Approved Built-up Area: 76393.26		
13.Note on the initiated work (If applicable)	NA		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Plans approved by Thane town Planning region		
15.Total Plot Area (sq. m.)	68800.00		
16.Deductions	3440		
17.Net Plot area	65360		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 76393.26 b) Non FSI area (sq. m.): 12692.81 c) Total BUA area (sq. m.): 89086.07		
19.Total ground coverage (m2)	10722.89		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.58		
21.Estimated cost of the project	1180000000		
<b>22.Number of buildings &amp; its configuration</b>			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type 1 (15 nos. of building with 2 wings in each building)	G+7	23.65
2	Type 2 (13 nos. of building with 2 wings in each building)	G+7	23.65
3	Type 3 (2 nos. of building with 2 wings in each building)	G+5	17.85
23.Number of tenants and shops	3218 Flats, 69 shops and 30 society offices		



**Shri Satish.M.Gavai**  
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24.Number of expected residents / users	16288
25.Tenant density per hectare	499.70
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	15 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m (min)
29.Existing structure (s) if any	No structure (Vacant Plot)
30.Details of the demolition with disposal (If applicable)	NA

### 31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	NA	NA	NA	NA

### 32.Total Water Requirement

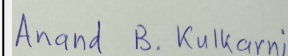
Dry season:	Source of water	Water resource Department
	Fresh water (CMD):	1500
	Recycled water - Flushing (CMD):	729
	Recycled water - Gardening (CMD):	37
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	2266
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	10000 liter in each building's wing
	Excess treated water	871



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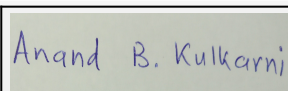
Wet season:	Source of water	Water Resource Department and Terrace rain water								
	Fresh water (CMD):	1500								
	Recycled water - Flushing (CMD):	729								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	0								
	Total Water Requirement (CMD) :	2229								
	Fire fighting - Underground water tank(CMD):	0								
	Fire fighting - Overhead water tank(CMD):	10000 liter in each building's wing								
	Excess treated water	908								
Details of Swimming pool (If any)	NA									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	NA	NA	NA	NA	NA	NA	NA	NA	NA	
34.Rain Water Harvesting (RWH)	Level of the Ground water table:	1-6 m								
	Size and no of RWH tank(s) and Quantity:	Total 4 RWH Tanks with 40 CUM, 210 CUM, 170 CUM, 150 CUM is proposed								
	Location of the RWH tank(s):	under ground								
	Quantity of recharge pits:	Not proposed								
	Size of recharge pits :	Not Applicable								
	Budgetary allocation (Capital cost) :	3000000								
	Budgetary allocation (O & M cost) :	500000								
	Details of UGT tanks if any :	Domestic tank , Flushing Tank and RWH tank is proposed.								
35.Storm water drainage	Natural water drainage pattern:	Natural Pattern from SE to NW								
	Quantity of storm water:	2.27 cum/sec								
	Size of SWD:	1.5 m width x 1.2 m depth								



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<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	Grey Water Generation: 1162 KLD and Black Waste Water Generation: 656 KLD
	<b>STP technology:</b>	Grey Water Treatment Technology: MBBR followed by Phytotrid and Black Water treatment technology: MBBR
	<b>Capacity of STP (CMD):</b>	1 no. of Grey Water treatment Plant of 1280 KLD and 1 no. of Black Water Treatment Plant of 720 KLD.
	<b>Location &amp; area of the STP:</b>	STP is proposed on ground
	<b>Budgetary allocation (Capital cost):</b>	15100000
	<b>Budgetary allocation (O &amp; M cost):</b>	2700000

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	6463.9 cum of excavated soil including 3898.56 cum of Top soil, 144210 Nos of empty cement bags, 18026.25 cft of aggregates, 120 T scrap, 1800 Nos empty paint cans, 1050 Sqm of broken tiles.
	<b>Disposal of the construction waste debris:</b>	2565.34 Cum of Excavated soil will be used in backfilling and rest 3898.56 cum (top soil) shall be used for landscaping, aggregates will be reuse on site for making road, Empty cement bags, scrap and empty paint can will be sold to authorised recycler, broken pieces of tiles shall be used for china mosaic waterproofing of terraces.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	3253 kg/day
	<b>Wet waste:</b>	4842 kg/day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	90 kg/day
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Handed over to authorised recycler
	<b>Wet waste:</b>	Will be treated onsite in OWC
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Used as manure
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	on ground
	<b>Area for the storage of waste &amp; other material:</b>	399 sqm
	<b>Area for machinery:</b>	12.3 sqm
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	3000000
	<b>O &amp; M cost:</b>	500000

### 37.Effluent Charecterestics

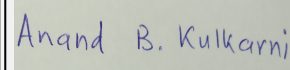
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA



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Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	NA	NA	NA	NA	NA	NA

### 40.Details of Fuel to be used

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

41.Source of Fuel

NA

42.Mode of Transportation of fuel to site

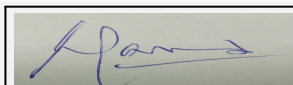
NA

### 43.Green Belt Development

Total RG area :	7262.44 sq.m
No of trees to be cut :	0
Number of trees to be planted :	1030
List of proposed native trees :	Neem , Gulmohar, Ashoka , Mango, Gamhar, Jamun, Awla, Asan, Arjun, Ber, Bahava, Maharakh, Bherali mad
Timeline for completion of plantation :	End of the construction phase

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

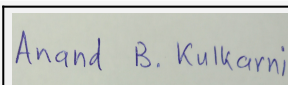
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	80	Medicinal Plant
2	Delonix regia	Gulmohar	80	Ornamental plant
3	Saraca asoca	Ashoka	80	Ever green tree
4	Mangifera indica	Mango	80	Fruit bearing tree
5	Gmelina arborea	Gamhar	80	medicinal plant
6	Syzygium cumini	Jamun	80	fruit bearing tree
7	Phyllanthus emblica	Awla	80	fruit bearing tree
8	Terminalia Tomentosa	Asan	80	ornamental



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9	Terminalia arjuna	Arjun	90	medicinal
10	Ziziphus mauritiana	Ber	90	fruit bearing
11	Cassia fistula	Bahava	60	flowering tree
12	Ailanthus excelsa	Maharakh	80	flowering tree
13	Caryota urens	Bherali mad	70	flowering tree

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

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

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

**47.Energy**

<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	82.5 KVA (2 nos.)
	During Operation phase (Connected load):	17.45 MVA
	During Operation phase (Demand load):	4.45 MVA
	Transformer:	1500 KVAx3 nos.
	DG set as Power back-up during operation phase:	For Services : 6Nos. x 35 KVA , Sector A: 1 nos. x 15 KVA , Sector B: 1 nos. x 82.5 KVA , Sector C: 1 nos. x 62.5 KVA and Sector D: 1 nos.x 50 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

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

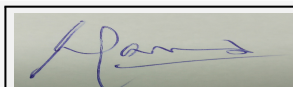
70% of common area lighting and infra lighting will be on solar rest 30% will be on LED. Use of VFD in proposed lift. Use of energy efficient motor in WTP, STP, Domestic water pumping, flushing water pumping system. Solar hot water system is proposed.

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

Serial Number	Energy Conservation Measures	Saving %
1	70% use of solar for common area lighting	100%
2	70% use of solar for infra. lighting	100%
3	30% use of LED for common area lighting	10%
4	30% use of LED for infra. lighting	7.14%
5	Use of VFD for proposed lift	20%

**50.Details of pollution control Systems**

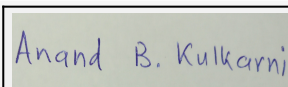
Source	Existing pollution control system	Proposed to be installed
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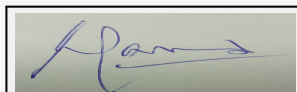
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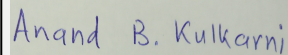
NA	NA		NA				
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	16500000					
	O & M cost:	1500000					
51.Environmental Management plan Budgetary Allocation							
a) Construction phase (with Break-up):							
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)				
1	Air Pollution	Dust Suppression	3.0				
2	Health and Safety	Site Sanitation & Safety	4.0				
3	Environment Monitoring	Air, Noise and Water	3.5				
4	Health and Safety	Disinfection	0.85				
5	Health and Safety	Health Checkup of labors	3.8				
b) Operation Phase (with Break-up):							
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)			
1	Water Environment	Sewage Treatment Plant	151	27			
2	Rain Water Harvesting	RWH System	30	5			
3	Water Environment	Water treatment plant	95	20			
4	Solid Waste Management	Organic Waste Convertor	30	5			
5	Energy Saving	Solar Energy system	165	15			
6	Green belt Development	Landscaping	187	13			
7	Disaster Management	Disaster Management Plan	330.27	21.38			
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)							
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	1					



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<b>Parking details:</b>	<b>Number and area of basement:</b>	Not Proposed
	<b>Number and area of podia:</b>	Not Proposed
	<b>Total Parking area:</b>	4248.50
	<b>Area per car:</b>	27
	<b>Area per car:</b>	27
	<b>Number of 2-Wheelers as approved by competent authority:</b>	680 nos of 2 wheeler and 680 nos. of Cycles
	<b>Number of 4-Wheelers as approved by competent authority:</b>	21 nos of cars
	<b>Public Transport:</b>	Not Applicable
	<b>Width of all Internal roads (m):</b>	Min width of internal road 6 m and maximum width of the internal road is 15 m
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	No protected area within 10 km from the project site
	<b>Category as per schedule of EIA Notification sheet</b>	8 (a)
	<b>Court cases pending if any</b>	No
	<b>Other Relevant Informations</b>	The proposed project was heard in SEAC-II in its 49th SEAC-II meeting as item no 23 and is recommended to SEIAA for grant of environmental clearance
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	03-05-2016

### Brief information of the project by SEAC

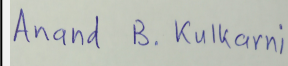
Representative of PP, Namdev Jadhav & Architect Mihir Kotak were present during the meeting along with environmental consultant M/s EAEPL. PP informed that there is change in name of PP from Karm Panchtatva 3 to Karm Panchtatva 2. PP also informed that all the plans for the project are approved by Thane Town Planning region with 1.3 (1.1 +0.2 (premium)) FSI. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 68,800 m<sup>2</sup> & total construction area of the project is 89,086.07 m<sup>2</sup>. Height of the building is 23.65 m. Number of tenants are 3218 flats. Expected population is 16,288. Water demand is 2218 KLD & solid waste generation is 8095 kg/day. PP has provided separate STP for grey water (1280 KLD) & sewage water (720 KLD). Dedicated fire station in the project is proposed by PP. PP also informed that Operation & maintenance cost by bear by him till the time Grampanchayat takes over the Fire Station. PP informed that they will be utilizing excess treated water on the nearby agricultural lands. PP also submitted agreement with farmers for 8 hectares of land & storage arrangements for monsoon season. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.



**Shri Satish.M.Gavai**  
(Member Secretary SEIAA)

**SEIAA Meeting No: 109 Meeting Date: April 18, 2017**

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**Shri. Anand Kulkarni**  
(Chairman SEIAA)

## DECISION OF SEAC

**During discussion following points emerged:** 1. It is observed that there are no sewer lines & no storm water drainage lines exist in the project area.

2. Further, PP informed that entire treated water should be reused / recycled in the project itself to ensure the zero discharge outside the project boundary. PP to submit details accordingly. PP to submit detailed water budget indicating fool proof mechanism achieving zero discharge.

3. PP to ensure that BOD of treated water should be less than 5 mg/lit. PP to present appropriate technology to achieve the same.

4. PP to submit detailed calculations of waste water utilization after treatment with the farmers and necessary storage arrangement during monsoon season.

5. PP to submit details of Operation & Maintenance cost required for the MSW and sewage treatment during operation of the project.

6. It is observed that nallah is passing through the project site. PP to ensure that no sewage, treated or untreated, should be discharged in the nallah

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

**Specific Conditions by SEAC:**

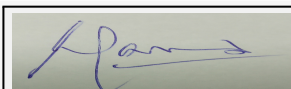
## SEIAA DECISION

Approved

**Specific Conditions by SEIAA:**

## FINAL RECOMMENDATION

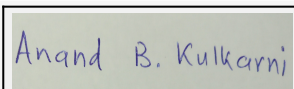
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



**Shri Satish.M.Gavai**  
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**Shri. Anand Kulkarni**  
(Chairman SEIAA)

## SEIAA Meeting 2017

**SEIAA Meeting number: 109 Meeting Date April 18, 2017**

**Subject:** Environment Clearance for Residential and Commercial Construction project

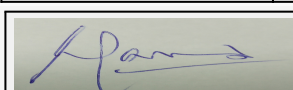
**General Information:** SEIAA Meeting 109 on 18th April 2017

1.Name of Project	Yashwin Anand
2.Type of institution	Private
3.Name of Project Proponent	M/s. Vilas Javdekar & Sanjeevani Developers LLP
4.Name of Consultant	Not applicable
5.Type of project	Housing procket- Residential and Commercial construction project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. no. 24/3/1, 24/3/2, 24/3/3, 24/4, 24/5A, 24/7C/1, 24/7C/2, 24/6, 24/7A, 24/5B, Mauje- Sus, Pune
9.Taluka	Mulshi
10.Village	Sus
11.Area of the project	PMRDA (Town Planning)
12.IOD/IOA/Concession/Plan Approval Number	Sanctioned by PMRDA
	<b>IOD/IOA/Concession/Plan Approval Number:</b> PMRDA - CR NO. 859-16-17 Dated 29-11-2016
	<b>Approved Built-up Area:</b> 33420.17
13.Note on the initiated work (If applicable)	Compound wall
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	14,370 sqm
16.Deductions	2647.42 sqm
17.Net Plot area	11,722.58 sqm
18.Proposed Built-up Area (FSI & Non-FSI)	<b>a) FSI area (sq. m.):</b> Residential FSI area: 15,184.25 sqm, Amenity FSI area: 2482.42 sqm, Total FSI: 17,666.67 sqm
	<b>b) Non FSI area (sq. m.):</b> Residential Non FSI area: 13,670.07 sqm, Amenity Non FSI area: 2083.43 sqm, Total FSI: 15,753.50 sqm
	<b>c) Total BUA area (sq. m.):</b> Residential: 28,854.32 sqm, Amenity: 4565.85 sqm, Total: 33,420.17 sqm
19.Total ground coverage (m2)	3613.94 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25 %
21.Estimated cost of the project	480000000

## 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P+11	34.20 m
2	Building B	P+11	34.20 m
3	Building C	P+11	34.20 m
4	Building D	P+11	34.20 m
5	Commercial: Amenity Building	P+ 5	19.73 m
6	Clubhouse	G+1	7.92 m

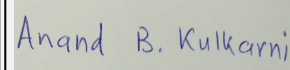
**23.Number of tenants and shops**  
Tenements: 266  
No. of Offices: 20



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<b>24.Number of expected residents / users</b>	Residential: 1330, Commercial: 352, Total: 1682
<b>25.Tenant density per hectare</b>	250 tenement/ha
<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>	24 m
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	9 m
<b>29.Existing structure (s) if any</b>	Not applicable
<b>30.Details of the demolition with disposal (If applicable)</b>	Not Applicable

### 31.Production Details

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

### 32.Total Water Requirement

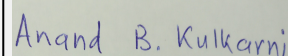
Dry season:	<b>Source of water</b>	Sus Gram Panchayat
	<b>Fresh water (CMD):</b>	134 KL
	<b>Recycled water - Flushing (CMD):</b>	72 KL
	<b>Recycled water - Gardening (CMD):</b>	30 KL
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	236 KL
	<b>Fire fighting - Underground water tank(CMD):</b>	200 KL
	<b>Fire fighting - Overhead water tank(CMD):</b>	100 KL
	<b>Excess treated water</b>	84



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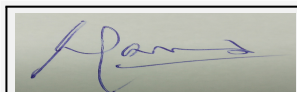
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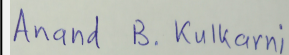
Wet season:	Source of water	Sus Gram Panchayat								
	Fresh water (CMD):	134 KL								
	Recycled water - Flushing (CMD):	72 KL								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	206 KL								
	Fire fighting - Underground water tank(CMD):	200 KL								
	Fire fighting - Overhead water tank(CMD):	100 KL								
	Excess treated water	114								
Details of Swimming pool (If any)	Not Applicable									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	134	134	Not applicable	10	10	Not applicable	186	186	
Gardening	Not applicable	30	30	Not applicable	30	30	Not applicable	0	0	
34.Rain Water Harvesting (RWH)	Level of the Ground water table:	64 m								
	Size and no of RWH tank(s) and Quantity:	Not applicable								
	Location of the RWH tank(s):	Not applicable								
	Quantity of recharge pits:	7 no. with borewell								
	Size of recharge pits :	1 m x 2 m x 1.5 m								
	Budgetary allocation (Capital cost) :	Rs 1,98,8000/-								
	Budgetary allocation (O & M cost) :	Rs 13,200/- per annum								
	Details of UGT tanks if any :	Domestic UGT: 191 KL Flushing UGT: 74 KL (considered in STP) Fire UGT: 200 KL								



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<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	As per contour
	<b>Quantity of storm water:</b>	8066 cum/year
	<b>Size of SWD:</b>	300 mm to 600 mm with slope 1:200

<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	186 KLD
	<b>STP technology:</b>	MBBR
	<b>Capacity of STP (CMD):</b>	1 no. with capacity:198 KL
	<b>Location &amp; area of the STP:</b>	Please refer layout
	<b>Budgetary allocation (Capital cost):</b>	Rs 60,00,000/-
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs 12,33,300/- per annum

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Not applicable
	<b>Disposal of the construction waste debris:</b>	Land filling on same site
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	280 kg/day
	<b>Wet waste:</b>	420 kg/day
	<b>Hazardous waste:</b>	Not applicable
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	28.25 kg/day
	<b>Others if any:</b>	Not applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Through Authorized vendors
	<b>Wet waste:</b>	Mechanical composter
	<b>Hazardous waste:</b>	Not applicable
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Manure
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Please refer layout
	<b>Area for the storage of waste &amp; other material:</b>	37.5 sqm
	<b>Area for machinery:</b>	15 sqm
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs 15,00,000/-
	<b>O &amp; M cost:</b>	Rs 1,50,000/- per annum

### 37.Effluent Charecterestics

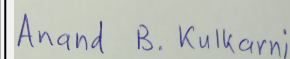
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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1	pH	Not applicable	6.0-8.5	5.5-7.0	Not applicable
2	Oil & Grease	mg/l	10 - 20	< 10	Not applicable
3	BOD	mg/l	200-250	< 10	Not to exceed 10
4	COD	mg/l	350-450	<60	Not to exceed 100
5	Total Suspended solids	mg/l	150-200	<10	Not to exceed 50
6	Total nitrogen	mg/l	120	<50	Not applicable
7	Nitrate	mg/l	15-16	<10	Not applicable
8	Dissolve Phosphate	mg/l	13-15	<5	Not applicable
9	Fecal coliform	MPN	1000000	Nil	Not applicable

Amount of effluent generation (CMD): Not applicable

Capacity of the ETP: Not applicable

Amount of treated effluent recycled : Not applicable

Amount of water send to the CETP: Not applicable

Membership of CETP (if require): Not applicable

Note on ETP technology to be used Not applicable

Disposal of the ETP sludge Not applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

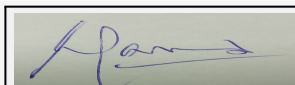
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable

41.Source of Fuel Not applicable

42.Mode of Transportation of fuel to site Not applicable

### 43.Green Belt Development

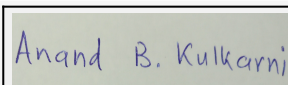
Total RG area :	1380.72 sqm
No of trees to be cut :	Not applicable
Number of trees to be planted :	231
List of proposed native trees :	As per below list
Timeline for completion of plantation :	1 year



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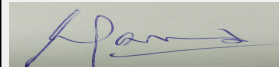
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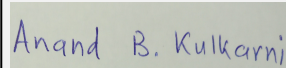
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinia alba	Kanchan white	22	Native, Drought tolerant, flowering, ornamental, attracts insects
2	Bauhinia purpurea	Kanchan	35	Medicinal, drought tolerant
3	Crataeva nurvula	Vayvarna	20	Medicinal, drought tolerant
4	Cordia sebestena	Cordia speci	25	Medicinal, drought tolerant, bird attracting, hardy
5	Dillenia indica	Karmal	45	Drought tolerant, edible fruits, well flowering, honey bee attracting species, host plant for butterfly
6	Erythrina indica	Pangara	3	Native, drought tolerant, hanrdy, flower and insect attracting species
7	Lagerstromia speciosa	Taman	24	Native, medicinal, soil erosion control
8	Mangifera indica	Mango	15	Native, drought tolerant, edible fruits, bird attracting
9	Mimusops elengi	Bakul	42	Medicinal value, fragrant flowers, butterfly larvae host plant, fast growing
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	Not applicable	Not applicable	Not applicable	
47.Energy				



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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	30 KW
	<b>DG set as Power back-up during construction phase</b>	40 kVA x 1
	<b>During Operation phase (Connected load):</b>	1229.24 KW
	<b>During Operation phase (Demand load):</b>	496 KW
	<b>Transformer:</b>	630 KVA x 1
	<b>DG set as Power back-up during operation phase:</b>	160 KVA x 1
	<b>Fuel used:</b>	diesel
	<b>Details of high tension line passing through the plot if any:</b>	Not applicable

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

? Use of T5+ LED fixtures with electronic Ballast against T8+ CFL  
 ? Motion sensors are proposed for parking areas & use of LED in common area  
 ? Use of non conventional energy i.e. Solar water heating system.  
 ? Energy efficient transformer  
 ? Solar lighting for common areas.

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

Serial Number	Energy Conservation Measures	Saving %
1	Use of T5 + LED	26937 kwh/annum
2	Energy saving by LED in common and parking area	17432.4 kwh/annum
3	Solar water heater	445725 kwh/annum
4	Street lighting	11957.4 kwh/annum
5	Transformer saving	8830.08 kwh/annum

#### 50. Details of pollution control Systems

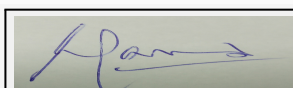
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs 42,09,625/-
	<b>O &amp; M cost:</b>	Rs 2,10,482/- per annum

### 51. Environmental Management plan Budgetary Allocation

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

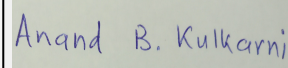
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	Dust control measures, barricading	Rs 4,00,000



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2	Site safety	Safety nets, safety equipments	Rs 3,50,000
3	Site sanitation	Toilets and cleanliness for labourers	Rs 1,50,000
4	Disinfection and health checkups	monitoring of health of labourers and hygiene	Rs 1,00,000
5	Environmental monitoring	Air, water, soil monitoring	Rs 1,00,000

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Installation and civil cost for 198 KLD capacity	Rs 60,00,000	Rs 12,33,300
2	Drainage line cost	upto final disposal	Rs 5,60,000	Rs 17,000
3	Rain water harvesting	internal piping	Rs1,98,000	Rs13,200
4	Storm water networking	upto final disposal	Rs10,46,000	Rs 31,000
5	storm water line cost	upto final disposal	Rs 6,00,000	Rs 18,000
6	Solid waste management	Installation and operation	Rs15,00,000	Rs 1,50,000
7	Green belt development	Plantation of trees and lawn	Rs 64,67,140	Rs 3,70,214
8	Energy saving measures (including solar water heater)	Installation and operation	Rs 42,09,625	Rs 2,10,482
9	Environmental monitoring	Air, water, soil, noise monitoring	0	Rs 1,60,000
10	Safety, training and awareness	Fire safety	Rs 9,00,000	0
11	Water tanker supply	in case of emergency	Fixed amount will be taken from the purchaser at the time of purchase (Rs 1,00,000/- per flat)	0

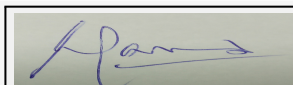
### 51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

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

### 52.Any Other Information

No Information Available

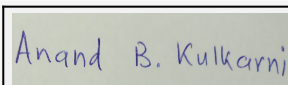
### 53.Traffic Management



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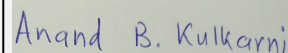
	Nos. of the junction to the main road & design of confluence:	1
Parking details:	Number and area of basement:	0
	Number and area of podia:	0
	Total Parking area:	4726 sqm
	Area per car:	30 sqm
	Area per car:	30 sqm
	Number of 2-Wheelers as approved by competent authority:	322
	Number of 4-Wheelers as approved by competent authority:	109
	Public Transport:	Not applicable
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 a (B-2)
	Court cases pending if any	No
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-05-2016
<b>Brief information of the project by SEAC</b>		
<p>PP submitted their application for prior Environment Clearance for total plot area of 14,370.00 Sq.Mtrs, BUA of 35,491.82 Sq. Mtrs and FSI area of 17,791.48 Sq. Mtrs. PP proposes to construct 4 nos. of residential buildings, 1 no. of Amenity building having maximum height of 37.05 Mtrs and a club house. The case was earlier considered in 48th meeting of the SEAC - III held from 7th to 10th June 2016 and 54th meeting of the SEAC - III held from 19th to 23rd September 2016. This committee took up the compliance report and other documents submitted by the Project Proponent for examination. The proposal is appraised as category 8 (a) B2.</p>		
<b>DECISION OF SEAC</b>		



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**During discussion following points emerged:**

1. PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.

**SEAC decided to recommend the proposal for Prior Environmental Clearance, subject to PP complying with the above conditions**

**Specific Conditions by SEAC:**

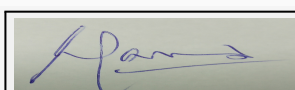
**SEIAA DECISION**

**Specific Conditions by SEIAA:**

**FINAL RECOMMENDATION**

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

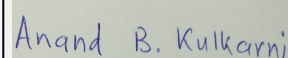
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## SEIAA Meeting 2017

**SEIAA Meeting number: 109 Meeting Date April 18, 2017**

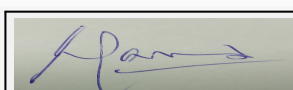
**Subject:** Environment Clearance for Expansion of Residential Project " Raheja Residency"

**General Information:** SEIAA Meeting 109 on 18th April 2017

<b>1.Name of Project</b>	Expansion of Residential Project " Raheja Residency"
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	Mr. D. D. Bhagwat
<b>4.Name of Consultant</b>	Mahabal Enviro Engineers Pvt. Ltd.
<b>5.Type of project</b>	Residential Project
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	Expansion Project
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	Not obtained as the plinth of existing buildings completed prior to 07.07.2004
<b>8.Location of the project</b>	C.T.S. No. 827A/1A & 827A/2, Malad (East), Mumbai, Maharashtra
<b>9.Taluka</b>	Borivali
<b>10.Village</b>	Malad
<b>11.Area of the project</b>	Municipal Corporation of Greater Mumbai (MCGM)
<b>12.IOD/IOA/Concession/Plan Approval Number</b>	Yes approved plan received from MCGM
	<b>IOD/IOA/Concession/Plan Approval Number:</b> Approved Plan No. CHE/7127/BP/WS/AP dt. 08.08.2014 & 19.03.2016
	<b>Approved Built-up Area:</b> 51172.54
<b>13.Note on the initiated work (If applicable)</b>	Construction area of Existing buildings (Wing A to E) is 33823.85 m2, (Plinth Completed prior to 7.7.2004)
<b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>	Not Applicable
<b>15.Total Plot Area (sq. m.)</b>	57,252.10 m2
<b>16.Deductions</b>	1,517.30 m2
<b>17.Net Plot area</b>	55,734.80 m2
<b>18.Proposed Built-up Area (FSI &amp; Non-FSI)</b>	<b>a) FSI area (sq. m.):</b> 1,26,900 m2
	<b>b) Non FSI area (sq. m.):</b> 1,18,100 m2
	<b>c) Total BUA area (sq. m.):</b> 2,45,000 m2
<b>19.Total ground coverage (m2)</b>	29851 m2
<b>20.Ground-coverage Percentage (%)</b> (Note: Percentage of plot not open to sky)	52.13%
<b>21.Estimated cost of the project</b>	4546300000

### 22.Number of buildings & its configuration

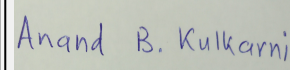
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	S + 10 floors	36.15
2	Building B & C	S + 7 Floors	26.15
3	Building D & E	S + 20 Floors	66.35
4	Building F, G & H	B + S + 20 Floors	69.15
5	Building I, J, K, L & M	LS + US + 21 Floors	68.85
6	Building N	LS + US + 14 Floors	47.15
7	Building P	B+LS+S+17	54.75
8	Building R, S, T, U, V & W	B+LS+US+20	69.60



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9	Club House	B+G+1	9.80
23.Number of tenants and shops	1666 Nos.		
24.Number of expected residents / users	8330 Nos.		
25.Tenant density per hectare	291/ha		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	The project site is accessible by 36.6 m wide Reservoir Road off General Arun Kumar Vaidya Marg from West side and 18.30 m wide road from North and East side		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	min 6 m		
29.Existing structure (s) if any	Not Applicable		
30.Details of the demolition with disposal (If applicable)	Not Applicable		

### 31.Production Details

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

### 32.Total Water Requirement

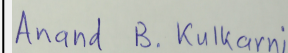
Dry season:	Source of water	MCGM
	Fresh water (CMD):	762
	Recycled water - Flushing (CMD):	375
	Recycled water - Gardening (CMD):	70
	Swimming pool make up (Cum):	12
	Total Water Requirement (CMD) :	1137
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	594



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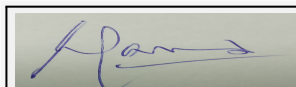
Wet season:	Source of water	MCGM
	Fresh water (CMD):	601
	Recycled water - Flushing (CMD):	375
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	12
	Total Water Requirement (CMD) :	1137
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	664
Details of Swimming pool (If any)	Swimming Pool is provided	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5 - 6m
	Size and no of RWH tank(s) and Quantity:	18 RWH Tanks with total capacity of 450 m3
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	80.5 lakh
	Budgetary allocation (O & M cost) :	8.1 Lakh/year
	Details of UGT tanks if any :	18 Nos. of separate UG tanks are provided.

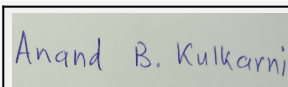
35.Storm water drainage	Natural water drainage pattern:	Towards South side
	Quantity of storm water:	5552.26 m3/hr
	Size of SWD:	600 mm x 800 mm and 750 mm x 1000 mm



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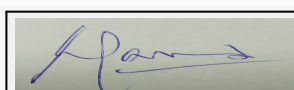
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	1050 KLD
	<b>STP technology:</b>	MBBR
	<b>Capacity of STP (CMD):</b>	3 STP with total capacity of 1250 KLD (400 KLD + 425 KLD + 425 KLD)
	<b>Location &amp; area of the STP:</b>	Ground (Area: 940 m <sup>2</sup> )
	<b>Budgetary allocation (Capital cost):</b>	250 Lakh
	<b>Budgetary allocation (O &amp; M cost):</b>	50 Lakh/year

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction Debris: 7114 m <sup>3</sup>
	<b>Disposal of the construction waste debris:</b>	The construction debris will be utilized at site for Road Paving and plinth filling
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	1666 kg/d
	<b>Wet waste:</b>	2499 kg/d
	<b>Hazardous waste:</b>	not applicable
	<b>Biomedical waste (If applicable):</b>	not applicable
	<b>STP Sludge (Dry sludge):</b>	10 KLD
	<b>Others if any:</b>	not applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Dry garbage will be segregated & disposed off to recyclers
	<b>Wet waste:</b>	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping
	<b>Hazardous waste:</b>	not applicable
	<b>Biomedical waste (If applicable):</b>	not applicable
	<b>STP Sludge (Dry sludge):</b>	Sludge use as manure for gardening
	<b>Others if any:</b>	not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Ground
	<b>Area for the storage of waste &amp; other material:</b>	80 m <sup>2</sup>
	<b>Area for machinery:</b>	32 m <sup>2</sup> each
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	120 Lakh
	<b>O &amp; M cost:</b>	48 Lakh/Year

### 37.Effluent Charecterestics

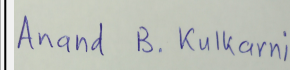
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			



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Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

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

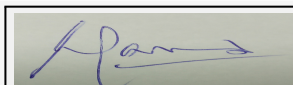
41.Source of Fuel Not applicable

42.Mode of Transportation of fuel to site Not applicable

<b>43.Green Belt Development</b>	<b>Total RG area :</b>	13,966.42 m2
	<b>No of trees to be cut :</b>	No trees on site
	<b>Number of trees to be planted :</b>	793
	<b>List of proposed native trees :</b>	as below
	<b>Timeline for completion of plantation :</b>	2 years

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

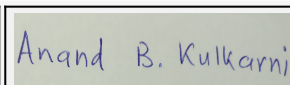
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	AZADIRACHTA INDICA	NEEM	41	Semi-evergreen tree with medicinal value
2	ALBIZIA LEBBECK	SHIRISH	39	Shady tree, yellowish green fragrant flowers
3	ALSTONIA SCHOLARIS	SAPTAPARN	45	Shady, large evergreen Tree, white fragrant flowers
4	BAUHINEA PURPUREA	KANCHAN	37	Shady Tree
5	ERYTHRINA INDICA	PANGARA	40	Medium sized deciduous tree. Bright scarlet flowers.



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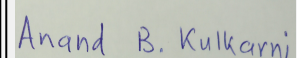
6	CASSIA FISTULA	BAHAVAVA	35	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
7	PONGAMIA PINNATA / GLABRA	KARANJ	51	Shady tree.
8	MIMOSUPA ELENGII	BAKUL	50	Shady tree, small white fragrant flowers
9	PLUMERIA ALBA	CHAPPA	160	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	ANTHOCEPHALLUS CADAMBA	KADAMB	56	Shady, large deciduous tree, fast-growing graceful tree, ball shaped flowers.
11	MILLINGTONIA HORTENSIS	INDIAN CORK TREE	3	Shady Tree
12	LAGERSTROEMIA FLOS-REGINAE	TAMHAN	40	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
13	MILICIA EXCELSA	KHAYA	3	Medium sized deciduous tree
14	MANGIFERA INDICA	MANGO	46	Large, shady tree, fruiting plant
15	SYZYGIUM CUMINI	JAMUN	38	Shady tree, white juicy fruit
16	PSIDIUM GUAJAVA	GUAVA	29	Medium sized tree, fruiting plant
17	MANILKARA ZAPOTA	CHIKU	45	Medium sized tree, fruiting plant
18	ANNONA RETICULATA	CUSTARD APPLE	35	Medium sized tree, fruiting plant
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	-	-	-	
47.Energy				



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<b>Power requirement:</b>	<b>Source of power supply :</b>	Reliance Energy
	<b>During Construction Phase: (Demand Load)</b>	500 kVA
	<b>DG set as Power back-up during construction phase</b>	500 kVA
	<b>During Operation phase (Connected load):</b>	26 MW
	<b>During Operation phase (Demand load):</b>	21 MW
	<b>Transformer:</b>	-
	<b>DG set as Power back-up during operation phase:</b>	Total 1125 kVA (62.5 kVA X 18)
	<b>Fuel used:</b>	Diesel
	<b>Details of high tension line passing through the plot if any:</b>	No

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

Energy efficient lighting using LED  
 Use of high energy efficient pumps for fire fighting, UG tanks and STP  
 Solar Street lights are proposed for common areas such as open spaces, pathways, RG etc.  
 Solar hot water will be provided

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

Serial Number	Energy Conservation Measures	Saving %
1	Total Savings	23.08%
2	Saving through solar hot water	13.25%

#### 50. Details of pollution control Systems

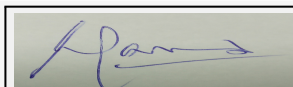
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	130 lakh
	<b>O &amp; M cost:</b>	6.5 lakh / year

#### 51. Environmental Management plan Budgetary Allocation

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

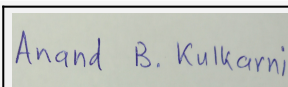
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	5
2	Site sanitation and Potable Water Supply to Labour	-	10



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3	Environmental Monitoring	(As per the CPCB guidelines through MoEF Approved laboratories - Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	4
4	Health check-up & first aid	-	5
5	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	12
6	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	4
7	Safety nets	-	25
8	Storm water Management	SWD along plot boundary and Sedimentation Pits	4
9	Tyre cleaning and Vehicle maintenance	-	4
10	Safety Training to Workers (Twice in Year), Safety Officer	-	8
11	Disinfection	-	3

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	250	50
2	Solar Hot Water	Weekly	130	6.5
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	80.5	8.1
4	Solid waste Composting plant	Continuous O & M	120	48
5	Landscape Development	Daily	140	21
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

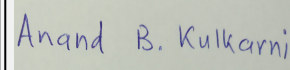
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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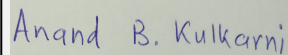
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>52.Any Other Information</b>							
No Information Available							
<b>53.Traffic Management</b>							
	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	No junction near site					
<b>Parking details:</b>	<b>Number and area of basement:</b>	1 Basement with 25,460 m2 area					
	<b>Number and area of podia:</b>	1 Podium with 24,940 m2 area					
	<b>Total Parking area:</b>	Gross parking area: 50,400 m2					
	<b>Area per car:</b>	-					
	<b>Area per car:</b>	-					
	<b>Number of 2-Wheelers as approved by competent authority:</b>	210 Nos.					
	<b>Number of 4-Wheelers as approved by competent authority:</b>	2126 Nos.					
	<b>Public Transport:</b>	-					
	<b>Width of all Internal roads (m):</b>	Min 6 m					
	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not Applicable					
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	The plot boundary is at 40 m from the boundary of SGNP. The phase 1 development i.e. buildings A to H are beyond 100 m from SGNP. For the portion of development of Phase II affected by 100 m application is submitted for NBWL NOC.					
	<b>Category as per schedule of EIA Notification sheet</b>	8(b)					
	<b>Court cases pending if any</b>	Bombay High Court. Suit No. 1628 of 2008. The only orders relevant to the proposed are the order dated 19.07.2012 disposing of Appeal Nos. 817 of 2010 and 806 of 2010 in the said Suit; there is no restriction on the development which is being carried on / is to be carried on by the Applicant on the said land.					
	<b>Other Relevant Informations</b>	We have already applied for NBWL vide our letter dt. 15.12.2015					
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes					
	<b>Date of online submission</b>	10-12-2015					



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## Brief information of the project by SEAC

Representative of PP, D.D. Bhagwat & Architect Sharad Kale were present during the meeting along with environmental consultant M/s Mahabal. PP informed that they have received approved plans vide No. CHE/7127/BP/WS/AP dated 08.08.2014 & 19.03.2016. PP informed that existing buildings (Wing A to H) admeasuring total construction area of 35,126.52 m<sup>2</sup> have been completed prior to 7/07/2004 notification. PP submitted plinth checking certificate dated 05/02/2004, 30/06/2004 & 29/06/2004 issued by MCGM .

PP also informed that the proposal comprised of 7 numbers of residential buildings with 21 wings. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 44th meeting of SEAC II in which ToR was issued. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 57,252.10 m<sup>2</sup> & total construction area proposed in this meeting of the project is 2,45,000 m<sup>2</sup>. Committee noted that the project under 8a (B1) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record

## DECISION OF SEAC

**During discussion following points emerged:**

1. It is also observed that proposed project site is abutting the SGNP and partly falls within 30 m buffer zone from its boundary. As per Hon. NGT, Pune order dated July 20, 2015 given in the application no. 34/2015, construction cannot be allowed in 100 m area. 2. PP, if applicable, to obtain NOC from Wild Life Board in terms of OM of MoEF dated 30/03/2015. Further, it is informed that part of the project falls within 30 m of SGNP. PP & concerned Municipal Corporation to ensure the compliance of the NGT order dated 03/12/2015 in the application MA.No.125/2014 before issuing commencement certificate for further construction permissions in the area.

3. PP to submit shadow analysis and heat island effect and measures to reduce the impacts.

4. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Honable Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

**Specific Conditions by SEAC:**

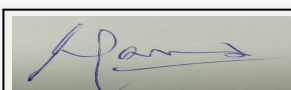
## SEIAA DECISION

A site visit will be conducted by the MPCB to ascertain issues discussed in the SEIAA

**Specific Conditions by SEIAA:**

## FINAL RECOMMENDATION

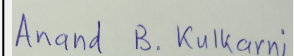
SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days



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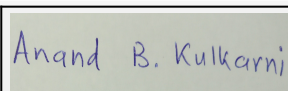
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
<b>Subject:</b> Environment Clearance for Application for Amendment in Environmental clearance for Proposed Residential tower building and Multi Storied Public Parking Lot building on Plot bearing CS No 2/1629 & 1A/1629 Of Lower Parel division, Plot No 249 & 249 A 248B Of Worli estate scheme no 52, Worli Mumbai			
<b>General Information:</b> Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort,Mumbai-01 Time : 10.00 AM			
1.Name of Project	Amendment in EC for Proposed Residential tower building and Multi Storied Public Parking Lot building on Plot bearing CS No 2/1629 & 1A/1629 Of Lower Parel division, Plot No 249 & 249 A 248B Of Worli estate scheme no 52, Worli Mumbai		
2.Type of institution	Private		
3.Name of Project Proponent	M/s K Raheja Pvt. Ltd		
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.		
5.Type of project	Residential tower building plus public parking lot Project		
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC for Proposed Residential tower building and Multi Storied Public Parking Lot building		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC has been received vide letter no : SEAC -2010/CR-323/TC-2 dated 11th June. 2014.		
8.Location of the project	Plot bearing CS No 2/1629 & 1A/1629 Of Lower Parel division, Plot No 249 & 249 A 248B Of Worli estate scheme no 52, Worli Mumbai		
9.Taluka	mumbai		
10.Village	worli		
11.Area of the project	MCGM		
12.IOD/IOA/Concession/Plan Approval Number	concession document IOD/IOA/Concession/Plan Approval Number: EB/1105/GS/A Approved Built-up Area: 55676.00		
13.Note on the initiated work (If applicable)	The PPL building has been constructed on site. As regards Residential building the work up to 20th habitable floors is completed. Total 1,13,496.53 Sq. M. is constructed on site		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	not applicable		
15.Total Plot Area (sq. m.)	20117.24 sqm		
16.Deductions	647.93 sqm		
17.Net Plot area	19469.31 sqm		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 54138.85 b) Non FSI area (sq. m.): 105600.37 c) Total BUA area (sq. m.): 159739.22		
19.Total ground coverage (m2)	14448.17		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	74.21%		
21.Estimated cost of the project	8829800000		
<b>22.Number of buildings &amp; its configuration</b>			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)



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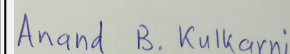
1	1	8 parking floors i.e. 2B+G+5 parking floors + stilts +6 structural/service floors+3 fire check floors+45 habitable floors. the 5th parking floor above the public parking lot will be for residential parking. Stilt for residential Parking & 1st part floor for welfare center for residential user in Plot bearing CS No 1A/1629 of LP division.	Residential - 227.30 m MPPL- 18.80 m	
23.Number of tenants and shops		160 Nos		
24.Number of expected residents / users		800 Nos		
25.Tenant density per hectare		80 tenants/hector		
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))		The site is accessible from 18.30 mt. wide Natvarya Baburao Pendarkar Marg on north side and 18.30 mt wide Sudam Kalu Ahire Marg on west side, both off Anne Besant Road.		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		Minimum 9.00 m		
29.Existing structure (s) if any		Existing HSBC sheds which will be demolished		
30.Details of the demolition with disposal (If applicable)		4110 MT		
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				



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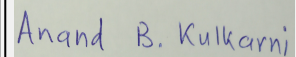
Dry season:	Source of water			MCGM						
	Fresh water (CMD):			Residential -72 KLD MPPL-2 KLD						
	Recycled water - Flushing (CMD):			Residential -36 KLD MPPL- 3 KLD						
	Recycled water - Gardening (CMD):			27 KLD						
	Swimming pool make up (Cum):			cum						
	Total Water Requirement (CMD) :			Residential -135 KLD MPPL- 5 KLD						
	Fire fighting - Underground water tank(CMD):			400 cum						
	Fire fighting - Overhead water tank(CMD):			cum						
	Excess treated water			20 KLD						
Wet season:	Source of water			MCGM						
	Fresh water (CMD):			Residential -72 KLD MPPL-2 KLD						
	Recycled water - Flushing (CMD):			Residential -36 KLD MPPL- 3 KLD						
	Recycled water - Gardening (CMD):			0 KLD						
	Swimming pool make up (Cum):			cum						
	Total Water Requirement (CMD) :			Residential -108 KLD MPPL- 5 KLD						
	Fire fighting - Underground water tank(CMD):			400 cum						
	Fire fighting - Overhead water tank(CMD):			cum						
	Excess treated water			105 KLD						
Details of Swimming pool (If any)										
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	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	



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<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	1.5 m ? 12.0 m bgl
	<b>Size and no of RWH tank(s) and Quantity:</b>	Residential ? 122 KL stilt ? 57 KL
	<b>Location of the RWH tank(s):</b>	Ground and basement
	<b>Quantity of recharge pits:</b>	23
	<b>Size of recharge pits :</b>	1.5 m
	<b>Budgetary allocation (Capital cost) :</b>	Rs 27 Lakhs
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs 1.35 Lakhs /Annum
	<b>Details of UGT tanks if any :</b>	Domestic Water Tank Residential -90 KL MPPL-5 KL Flushing Water Tank Residential -36 KL MPPL-5 KL Fire Water Tank Residential -300 KL MPPL- 100 KL Rain Water Harvesting Tank Residential ? 122 KL stilt ? 57 KL Location of tank Basement /Ground for RWH
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	The SWD has been proposed as per the SWD remarks granted by MCGM under no Dy.Ch.E/SWD/249 Dated 21.07.2012
	<b>Quantity of storm water:</b>	The SWD has been proposed as per the SWD remarks granted by MCGM under no Dy.Ch.E/SWD/249 Dated 21.07.2012
	<b>Size of SWD:</b>	The SWD has been proposed as per the SWD remarks granted by MCGM under no Dy.Ch.E/SWD/249 Dated 21.07.2012
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	97 KLD
	<b>STP technology:</b>	Residential ?SBR MPPL- MBBR
	<b>Capacity of STP (CMD):</b>	Residential ?125 KL MPPL- 10 KL
	<b>Location &amp; area of the STP:</b>	Basement & ground
	<b>Budgetary allocation (Capital cost):</b>	Rs 65 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs 8 lakhs /annum
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Empty cement bags- 200 nos, Steel= 3 ton , Metal = 200 sqft, Aerocan lightweight block= 250 nos, sand =200 sqft, Tiles/Marble & granite= 50 sqft, Aluminum windows =5 kg
	<b>Disposal of the construction waste debris:</b>	Steel cut pieces shall be used as spacers and chairs in the structure and wastage of steel (balance non usable steel of odd lengths) is sent for recycling,Wastage of sand will be used for bedding for flooring purpose. They shall also be used for backfilling and filler material for leveling of internal roads and pavements
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	160 Kg/day
	<b>Wet waste:</b>	240 Kg/day
	<b>Hazardous waste:</b>	not applicable
	<b>Biomedical waste (If applicable):</b>	not applicable
	<b>STP Sludge (Dry sludge):</b>	3 Kg/day
	<b>Others if any:</b>	not applicable

<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	To be hand over to Local Recyclers for recycling
	<b>Wet waste:</b>	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	To be used as a manure
	<b>Others if any:</b>	Not Applicable
<b>Area requirement:</b>	<b>Location(s):</b>	ground
	<b>Area for the storage of waste &amp; other material:</b>	110 sqm
	<b>Area for machinery:</b>	2.03 m x 1.37m x 1.65m i.e 2.5Sq.m
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs 12 Lakhs
	<b>O &amp; M cost:</b>	Rs 2.4 lakhs /annum

### 37.Effluent Charecterestics

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

### 38.Hazardous Waste Details

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

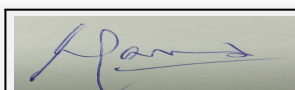
### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

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

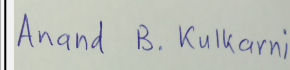
41.Source of Fuel	Not applicable
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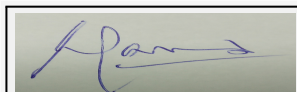
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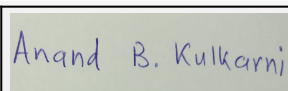
42.Mode of Transportation of fuel to site		Not applicable		
<b>43.Green Belt Development</b>	<b>Total RG area :</b>	RG area on Ground - 5283.49 Sqm. (28 %)		
	<b>No of trees to be cut :</b>	not applicable		
	<b>Number of trees to be planted :</b>	338 nos		
	<b>List of proposed native trees :</b>	Barringtonia ,Terminalia mantaly ,Milletia pinnata ,Lagerstroemia		
	<b>Timeline for completion of plantation :</b>	At the end of construction phase		
<b>44.Number and list of trees species to be planted in the ground</b>				
<b>Serial Number</b>	<b>Name of the plant</b>	<b>Common Name</b>	<b>Quantity</b>	<b>Characteristics &amp; ecological importance</b>
1	Barringtonia	Indian oak	15	ornamental tree
2	Terminalia mantaly	Madagascar almond	9	ornamental tree
3	Milletia pinnata	Karanj Tree	15	shadow tree
4	Lagerstroemia	Crape Myrtle	22	flowering trees
<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>				
<b>Serial Number</b>	<b>Name</b>	<b>C/C Distance</b>	<b>Area m2</b>	
1	not applicable	not applicable	not applicable	
<b>47.Energy</b>				
<b>Power requirement:</b>	<b>Source of power supply :</b>	TaTa/Reliance		
	<b>During Construction Phase: (Demand Load)</b>	80 kW		
	<b>DG set as Power back-up during construction phase</b>	100 kVA		
	<b>During Operation phase (Connected load):</b>	11169 Kw		
	<b>During Operation phase (Demand load):</b>	4825 Kw		
	<b>Transformer:</b>	Residential ?1 X 2000 kVA MPPL- 500 kVA		
	<b>DG set as Power back-up during operation phase:</b>	Residential ?1 X 2000 kVA MPPL- 500 kVA		
	<b>Fuel used:</b>	HSD		
	<b>Details of high tension line passing through the plot if any:</b>	Not applicable		
<b>48.Energy saving by non-conventional method:</b>				



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? Design with low lighting power density of 0.8 w/sft or less in common areas by using LED?S for general lighting with occupancy sensors & timer based controls  
 ? Design with low lighting power density of 0.2 watts/sft or less in the parking areas with T5 using energy efficient 5 star rated equipments  
 External Light Design with low lighting power density of 0.2 watts/sft or less in the building exterior areas with use of LED?S  
 Use of efficient VRF or equivalent system with filters like MER

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

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving%	26%
2	% saving through renewable energy w.r.t total saving	10%

#### 50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 90 lakhs
	O & M cost:	Rs. 4.5 lakhs

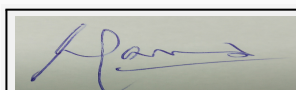
#### 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	6
2	Noise Environment	Noise Baricades and Green Belt Developments	4
3	Water Environment	Modular STP , Drainage with sedimentation tanks	5
4	Good Health Practices	Site Sanitation & Health Care	4
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	3

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

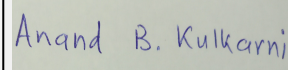
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Solid waste management	OWC	12	2.4
2	waste water management	STP	65	8
3	electrical savings	Energy savings	90	4.5
4	RHW	RWH system	27	1.35
5	RG area	Landscaping	105	21
6	disaster management plan	DMP	650	39



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

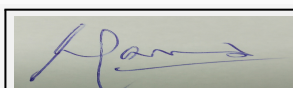
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## 52.Any Other Information

No Information Available

## 53.Traffic Management

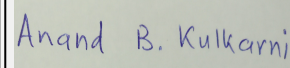
	<b>Nos. of the junction to the main road &amp; design of confluence:</b>	The site is accessible from 18.30 mt. wide Natvarya Baburao Pendarkar Marg on north side and 18.30 mt wide Sudam Kalu Ahire Marg on west side, both off Anne Besant Road.
<b>Parking details:</b>	<b>Number and area of basement:</b>	2 nos
	<b>Number and area of podia:</b>	5 nos
	<b>Total Parking area:</b>	39253.38 sqm
	<b>Area per car:</b>	Basement= 33 sqm ,Gr. Flr. = 25 sqm , Podium= 30.9 sqm
	<b>Area per car:</b>	Basement= 33 sqm ,Gr. Flr. = 25 sqm , Podium= 30.9 sqm
	<b>Number of 2-Wheelers as approved by competent authority:</b>	residential- 23, MPPL- 20
	<b>Number of 4-Wheelers as approved by competent authority:</b>	456
	<b>Public Transport:</b>	803
	<b>Width of all Internal roads (m):</b>	6.00 m
	<b>CRZ/ RRZ clearance obtain, if any:</b>	Not applicable
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Not applicable
	<b>Category as per schedule of EIA Notification sheet</b>	B1
	<b>Court cases pending if any</b>	Not applicable
	<b>Other Relevant Informations</b>	Not applicable



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	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	15-03-2016

### Brief information of the project by SEAC

Representative of PP, Nikhi Mehta & Architect Kasturi Parekar were present during the meeting along with environmental consultant M/s EAEPL. PP informed that plans of the project are approved on 21/03/2016. PP informed that they have received earlier EC vide letter dated 22/07/2011 which is amended on 11/06/2014 for total construction area of 1,29,818 m<sup>2</sup>. PP informed that they have completed construction admeasuring 1,11,636.20 m<sup>2</sup> prior to EC. Expansion is due to amalgamation of adjoining plot admeasuring 5478.33 m<sup>2</sup> & due to increase in incentive FSI from 0.40 to 0.50 against Public Parking Lot.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project was earlier considered in 46th & 50th meeting of SEAC II in which TOR was approved. PP submitted EIA report in the meeting. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 20,117.24 m<sup>2</sup> & total construction area proposed in this meeting of the project is 1,59,739.22 m<sup>2</sup>. Committee noted that the project is under 8a (B1) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

### DECISION OF SEAC

#### During discussion following points emerged:

1. PP to submit HRC permission for expansion up to 45 floors.
2. PP to submit copy of IOD.
3. PP to submit corrected statement showing level of services in Traffic analysis report. PP to submit revised traffic analysis report.
4. PP to submit storm water drainage calculations for entire project area. PP to submit revised storm water drainage design for proposed project site. It should be in consonance with / integrated with storm water outside the plot boundary.
5. PP to achieve 12% energy savings through renewable component & submit revised energy calculations indicating the same.
6. PP to ensure that BOD of the treated water should be 5 mg/lit.
7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

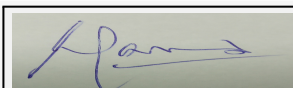
**Specific Conditions by SEAC:**

### SEIAA DECISION

Site visit to be conducted by the MPCB to ascertain issues discussed in the SEIAA

**Specific Conditions by SEIAA:**

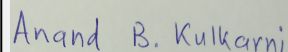
### FINAL RECOMMENDATION



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(Member Secretary SEIAA)

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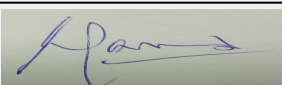
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(Chairman SEIAA)

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

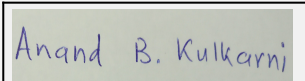
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## SEIAA Meeting 2017

**SEIAA Meeting number: 109 Meeting Date April 18, 2017**

**Subject:** Environment Clearance for Royal Mudhol Hospital & Research Centre

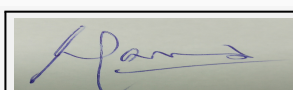
**General Information:** SEIAA Meeting 109 on 18th April 2017

1.Name of Project	Royal Mudhol Hospital & Research Centre
2.Type of institution	Private
3.Name of Project Proponent	Mr Vijaysinh Maurya
4.Name of Consultant	PECS (Pollution and Ecology Control Services)
5.Type of project	Multispecialty Hospital& Research Centre
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 127A/2 Ghorpade Peth, Pune Tal- Haveli Dist- Pune.
9.Taluka	Haveli
10.Village	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not applicable IOD/IOA/Concession/Plan Approval Number: Not applicable Approved Built-up Area: 2.0
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	12262.50 sqm
16.Deductions	0 sqm
17.Net Plot area	12262.50 sqm
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 15209.83 sqm b) Non FSI area (sq. m.): 18347.49 sqm c) Total BUA area (sq. m.): 33557.32 sqm
19.Total ground coverage (m2)	3468.67 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.28%
21.Estimated cost of the project	980000000

### 22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Hospital Building	2 basements + 8 floors (service floor after 2nd floor)	30 mtrs

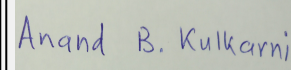
23.Number of tenants and shops	310 no of hospital beds
24.Number of expected residents / users	1395 nos
25.Tenant density per hectare	1137 users per hector
26.Height of the building(s)	



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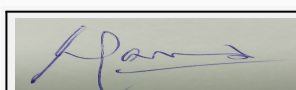
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	36 mtr wide road on south side & 9 mtr wide access road in the west side
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Minimum 9 meters turning radius
<b>29.Existing structure (s) if any</b>	Yes. Original structures constructed by PMC now handed over and shall be demolished after construction work is completed. These existing buildings shall be used as labour camp, site office etc
<b>30.Details of the demolition with disposal (If applicable)</b>	Demolition shall be carried out for the old structures once the construction of the main building is complete. Till then the old structures shall be used as labour camp, site office etc.

### 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

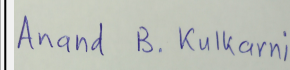
Dry season:	<b>Source of water</b>	Pune Municipal Corporation
	<b>Fresh water (CMD):</b>	99.38 cum
	<b>Recycled water - Flushing (CMD):</b>	41.00 cum
	<b>Recycled water - Gardening (CMD):</b>	9.06 cum
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	210.64 cum
	<b>Fire fighting - Underground water tank(CMD):</b>	150 cum
	<b>Fire fighting - Overhead water tank(CMD):</b>	20 cum
	<b>Excess treated water</b>	NIL



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<b>Wet season:</b>	<b>Source of water</b>	Pune Municipal Corporation
	<b>Fresh water (CMD):</b>	99.38 cum
	<b>Recycled water - Flushing (CMD):</b>	41.00 cum
	<b>Recycled water - Gardening (CMD):</b>	NA
	<b>Swimming pool make up (Cum):</b>	NA
	<b>Total Water Requirement (CMD) :</b>	201.58 cum
	<b>Fire fighting - Underground water tank(CMD):</b>	150 cum
	<b>Fire fighting - Overhead water tank(CMD):</b>	20 cum
	<b>Excess treated water</b>	7.00 cum
<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	99.38	99.38	Not applicable	10	10	Not applicable	89.38	89.38
Cooling tower & thermopack	Not applicable	61.20	61.20	Not applicable	0	0	Not applicable	0	0
Gardening	Not applicable	9.06	9.06	Not applicable	0	0	Not applicable	0	0

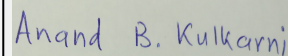
<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	10 mtr
	<b>Size and no of RWH tank(s) and Quantity:</b>	NA
	<b>Location of the RWH tank(s):</b>	NA
	<b>Quantity of recharge pits:</b>	6 nos
	<b>Size of recharge pits :</b>	Diameter - 2 mtrs & depth - 5 mtrs
	<b>Budgetary allocation (Capital cost) :</b>	Rs 12.02 lac
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs 1.00 lac
	<b>Details of UGT tanks if any :</b>	Commercial: • Domestic UG tank Capacity : 149.0 cum • Flushing UG tank Capacity : 101.00 cum • Fire UG tank Capacity : 150 cum



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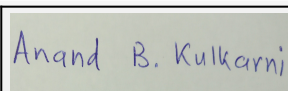
<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	West to East
	<b>Quantity of storm water:</b>	7221.90 cum/year
	<b>Size of SWD:</b>	600 mm
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	119.48 cum
	<b>STP technology:</b>	MBBR Technology based STP
	<b>Capacity of STP (CMD):</b>	1 nos & 125 cum capacity of STP
	<b>Location &amp; area of the STP:</b>	behind the building (North boundary) & 107 sqm of area
	<b>Budgetary allocation (Capital cost):</b>	Rs 63.84 lacs (including civil cost)
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs 9.77 lacs
<b>36.Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Negligible
	<b>Disposal of the construction waste debris:</b>	Excess excavated soil to be dumped at sites mentioned by PMC through its licensed contractors.
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	175 kg/day
	<b>Wet waste:</b>	522 kg/day
	<b>Hazardous waste:</b>	546 kg/day approx
	<b>Biomedical waste (If applicable):</b>	74 kg/day approx
	<b>STP Sludge (Dry sludge):</b>	Negligible
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Handed over to SWACH
	<b>Wet waste:</b>	OWC
	<b>Hazardous waste:</b>	Handed over to the authorized agency as per segregation (PASSCO)
	<b>Biomedical waste (If applicable):</b>	Handed over to PASSCO
	<b>STP Sludge (Dry sludge):</b>	OWC
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	OWC behind the building, at the far end of the plot
	<b>Area for the storage of waste &amp; other material:</b>	29 sqm & 46.5 sqm (separate areas for wet, biomedical and dry waste)
	<b>Area for machinery:</b>	18 sqm
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs 14.75 lacs
	<b>O &amp; M cost:</b>	Rs 3.27 lacs
<b>37.Effluent Charecterestics</b>		



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Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	7 - 9	6 - 7	5.5 to 9.0
2	Biochemical Oxygen Demand (BOD)	mg/l	80 - 250	= 10	30.00
3	Chemical Oxygen Demand (COD)	mg/ l	400 - 500	= 30	250.00
4	Total Suspended Solids (TSS)	mg/l	80 - 100	= 10	100.00
5	Oil & Grease	mg/l	Nil	Nil	Nil
6	Fecal Coliform	Nos./100ml	1000000/100	Nil	Nil
7	Total Coliform	Nos./100ml	10000000/100	Nil	Nil
Amount of effluent generation (CMD):		13.5 KLD			
Capacity of the ETP:		15 KLD			
Amount of treated effluent recycled :		Shall be sent to STP			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Advanced oxidation Process (AOP)			
Disposal of the ETP sludge		OWC			

### 38.Hazardous Waste Details

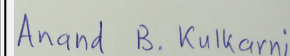
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Human Anatomical Waste - (human tissues, organs, body parts)	Category No. 1	Kg/day	Not applicable	74 approx	74 approx	incineration/deep burial by authorized agency
2	Microbiology & Biotechnology Waste - wastes from laboratory cultures, stocks or specimens of micro-organisms live or attenuated vaccines	Category No. 3	Kg/day	Not applicable	78 approx	78 approx	Local micro-autoclaving/ microwaving/incineration through authorized agency
3	Waste sharps - (needles, syringes, scalpels, blades, glass, etc. that may cause puncture and cuts. This includes both used and unused sharps)	Category No. 4	Kg/day	Not applicable	78 approx	78 approx	disinfection (chemical treatment/ autoclaving/microwaving and mutilation/shredding and shall be handed over to authorized agency for proper disposal
4	Discarded Medicines and Cytotoxic drugs wastes comprising of outdated, contaminated and discarded medicines	Category No. 5	Kg/day	Not applicable	78 approx	78 approx	incineration/ disposal in secured landfills through authorized agency



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5	Solid Waste (Items contaminated with blood, and body fluids including cotton, dressings, soiled plaster casts, lines, beddings, other material contaminated with blood)	Category No. 6	Kg/day	Not applicable	78 approx	78 approx	incineration by authorized agency
6	Solid Waste (Wastes generated from disposable items other than the waste sharps such as tubing's, catheters, intravenous sets etc).	Category No. 7	Kg/day	Not applicable	78 approx	78 approx	disinfection by chemical treatment autoclaving/ microwaving and mutilation/ shredding by authorized agency
7	Liquid Waste (waste generated from laboratory and washing, cleaning, housekeeping and disinfecting activities)	Category No. 8	Kg/day	Not applicable	78 approx	78 approx	Disinfection by chemical treatment and discharge into drains which are connected to ETP & STP.
8	Chemical Waste (Chemicals used in production of biological, chemicals used in disinfection, as insecticides, etc.)	Category No. 10	Kg/day	Not applicable	78 approx	78 approx	chemical treatment and discharge into drains which shall be connected to ETP & STP

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 units	HSD (150 liters per day)	2	6	0.3	700 deg C

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	990 lits	990 lits

41.Source of Fuel Petrol pump located at 200 m from site

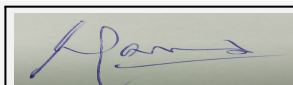
42.Mode of Transportation of fuel to site Through barrels by transport vehicle

### 43.Green Belt Development

Total RG area :	1227.11 sqm
No of trees to be cut :	Nil
Number of trees to be planted :	157 Nos
List of proposed native trees :	Attached below
Timeline for completion of plantation :	Before completion is obtained

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

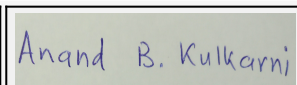
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
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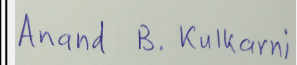
1	Albizia lebbeck	Shirish	9	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	10	Evergreen tree, fast growing
3	Anthocephallus cadamba	Kadamb	1	Shady, large tree, ball shaped flowers.
4	Lagerstroemia flos-regineae	Tamhan	14	State flower tree of Maharashtra. Medium sized tree, beautiful purple flowers
5	Murraya paniculata	Kunti	9	Small tree, Fragrant white flowers, Butterfly host plant
6	Manilkara zapota	Chikku	7	Medium size , fruit bearing tree
7	Mangifera indica	Mango	10	Tall, fruit bearing tree
8	Syzygium cumini	Jambhul	9	Dense ornamental, fruit bearing tree
9	Ficus retusa	Nandruk	14	Medium sized evergreen tree, Shady tree.
10	Michelia champaca	Son chafa	10	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
11	Terminalia arjuna	Arjuna	6	Large evergreen tree
12	Lagerstromia Lanceolata	Crape-myrtle	6	Medium deciduous tree. Flowers attract many birds.
13	Dalbergia latifolia	Shisham	9	Drought tolerant
14	Terminalia paniculata	Kindal	2	Drought tolerant
15	Tabebuia avellanedae	Tabebuia pink	6	Large deciduous tree. Pink flowers
16	Tabebuia argentea	Tabebuia yellow	19	Deciduous tree, ornamental, yellow flowers
17	Swietenia mahagoni	Mahagony	2	Large evergreen tree
18	Eucalyptus citriodora	Nilgiri	10	Tall, semi-deciduous, indicator for water
19	Barringtonia racemosa	Cornbeefwood	4	Drought tolerant
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	NA	NA	NA	
47.Energy				



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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	33 KW
	<b>DG set as Power back-up during construction phase</b>	40 KVA
	<b>During Operation phase (Connected load):</b>	3580.70 KW
	<b>During Operation phase (Demand load):</b>	2558.76 KW
	<b>Transformer:</b>	1500 KVA - 2 nos
	<b>DG set as Power back-up during operation phase:</b>	1600 KVA - 2 nos
	<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:

Replacing T5 fitting in stair case with 24 W LED.  
 Replacing 2 x 18W Down lighter in lift lobby with 24W LED.  
 Replacing 70W MHL Street lights with 24W LED.  
 Providing 60% of Street lights on solar.  
 Replacing normal lighting with LED for Landscape.  
 Using VFD's for Lift machines, we can save 10% of consumption.  
 By using Regenerative type lifts, we can save 30% of Consumption.  
 By using Energy efficient motors, we can save 10% of energy.  
 By using Energy efficient motors, we can save 10% of energy.  
 B

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

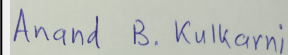
Serial Number	Energy Conservation Measures	Saving %
1	Landscape Lighting (LED Lighting instead of Normal)	2920.00 KW
2	CFL Lights in Lobby, Staircase & Corridors (T5 instead of T8 & LED instead of Normal)	20288.16 KW
3	Solar PV system for 20% of above lights (Lobby, Staircase & corridor)	12582.86 KW
4	All other Lighting	0.00 KW
5	VFD's on Lifts	10512.00 KW
6	Lifts Regenerative type	31536.00 KW
7	External Lighting (Solar as well LED instead of Metal Halide)	3495.24 KW
8	Common Basement Lighting (T5 Instead of T8)	2628.00 KW
9	Domestic Pumps	350.40 KW
10	Flushing Pumps	175.20 KW
11	STP	1752.00 KW
12	HVAC system	0.00 KW



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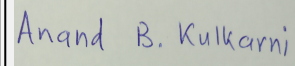
13	Basement Ventilation Load		0.00 KW
50.Details of pollution control Systems			
Source	Existing pollution control system		Proposed to be installed
Waste water generated	NA		STP - (capacity of 125 KLD)
Biodegradable Waste generated	NA		OWC - (capacity of 550 kgs/day )
Non Biodegradable waste generated	NA		SWACH-Agreement executed for non biodegradable waste
DG Set	NA		DG Set - (capacity of 1600 KVA - 2 Nos )
Medical waste generated	NA		PASSCO - Agreement shall be executed prior to the functioning of the hospital begins (as per the rules of PASSCO)
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	28,80,000	
	O & M cost:	1,45,000	
51.Environmental Management plan Budgetary Allocation			
a) Construction phase (with Break-up):			
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust suppression	To reduce dust generated during transportation, debris generation etc	9,25,000
2	Site sanitation	prevention of human contact with the wastes of human excretion etc	2,50,000
3	Enviro monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water,	2,91,000
4	Disinfection	To prevent any outbreak of diseases	1,00,000
5	Health & check up of labor	To ensure health of the working staff inorder to reduce any health complication and infections generated on site during construction phase	2,00,000
6	Modular STP	Waste water treatment generated from toilet use by labour	10,35,000
7	Water for labour	Water fro consumption, toilet use, bathing, washing utensils etc	11,68,000
b) Operation Phase (with Break-up):			



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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Waste water treatment including ETP & STP	63,84,000	9,77,000
2	RWH	as per no of pits	12,02,400	1,00,000
3	Gardening	Landscape development	9,00,000	6,00,000
4	Energy saving measures	Solar PV & Solar water heater	28,80,000	1,45,000
5	Biomedical waste disposal	Estimated cost to be incurred at the time of execution	5,00,000	6,00,000
6	OWC	for Biodegradable waste treatment	13,24,000	3,23,070
7	Enviro monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	0	6,06,000
8	DG Set	In case of power failure	2,40,00,000	41,00,000
9	Site disinfection of reusable material	disinfection of reusable material through autoclaves and others	3,00,000	2,00,000

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

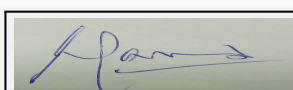
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 52.Any Other Information

No Information Available

### 53.Traffic Management

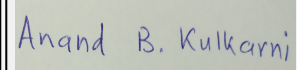
	Nos. of the junction to the main road & design of confluence:	1 nos
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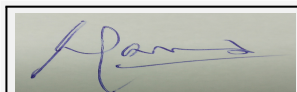
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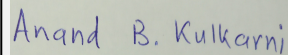
<b>Parking details:</b>	<b>Number and area of basement:</b>	1 Nos & 6265 sqm
	<b>Number and area of podia:</b>	1 Nos & 987.90 sqm
	<b>Total Parking area:</b>	8240.80 sqm
	<b>Area per car:</b>	12.5 sqm per car
	<b>Area per car:</b>	12.5 sqm per car
	<b>Number of 2-Wheelers as approved by competent authority:</b>	326 nos
	<b>Number of 4-Wheelers as approved by competent authority:</b>	98 nos
	<b>Public Transport:</b>	Not proposed
	<b>Width of all Internal roads (m):</b>	6 mtrs
	<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>	NA
	<b>Court cases pending if any</b>	NIL
	<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>Brief information of the project by SEAC</b>		
<p>PP submitted their application for prior Environment Clearance for total plot area of 12,262.50 Mtrs, BUA of 30,45.27 Sq. Mtrs. and FSI area of 14,39.22 Sq. Mtrs. PP proposes to construct 1 nos. of Hospital building having maximum height of 30.00 Mtrs. The case was earlier considered in 46th meeting of the SEAC - III held from 25th to 29th April, 2016. This committee took up the compliance report and other documents submitted by the Project Proponent for examination. The proposal is appraised as category 8 (a) B2.</p>		
<b>DECISION OF SEAC</b>		



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**During discussion following points emerged:**

1. PP informed that they have obtained full potential sanction.
2. PP to obtain and submit drainage connection NOC to the project
3. PP to obtain and submit NOC for E-waste disposal.
4. PP to include STP pumping cost in EMP.

**SEAC decided to recommend the proposal for Prior Environmental Clearance, subject to PP complying with the above conditions.**

**Specific Conditions by SEAC:**

**SEIAA DECISION**

Approved

**Specific Conditions by SEIAA:**

**FINAL RECOMMENDATION**

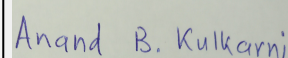
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



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## SEIAA Meeting 2017

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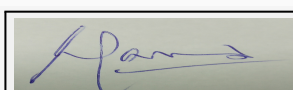
**Subject:** Environment Clearance for New construction project

**General Information:** SEIAA Meeting 109 on 18th April 2017

1.Name of Project	Bhagyaasthan II
2.Type of institution	Private
3.Name of Project Proponent	Mr.NileshPalresha
4.Name of Consultant	Ultra-Tech (Environmental Consultancy and laboratory)
5.Type of project	Residential Development with Convenient Shopping
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 626,662,625,661,652,654
9.Taluka	Haveli
10.Village	Kesnand
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	BHA / CR NO. 1647 / 16-17 DATED 20.08.2016 IOD/IOA/Concession/Plan Approval Number: BHA / CR NO. 1647 / 16-17 DATED 20.08.2016 Approved Built-up Area: 83669.91
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	37,227.81 m2
16.Deductions	5,683.83 m2
17.Net Plot area	31,543.98 m2
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 44,034.95 m2 b) Non FSI area (sq. m.): 39,634.96 m2 c) Total BUA area (sq. m.): 83,669.91 m2
19.Total ground coverage (m2)	6,216.48 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.70%
21.Estimated cost of the project	1200000000

### 22.Number of buildings & its configuration

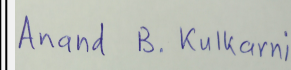
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A BUILDING , 1No.	P+15	46.80
2	B BUILDING , 1No	P+15	46.80
3	C BUILDING , 1No	P+15	46.80
4	D BUILDING , 1No	P+15	46.80
5	E BUILDING , 1No	P+15	46.80
6	F BUILDING , 1No	P+15	46.80
7	G BUILDING , 1No	P+10	33.00
8	Commercial	G+1	8
9	Amenity 1	P+G+1	10.00



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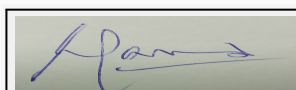
10	Amenity 2	B+G+1	9.00
11	Amenity 2	B+G+1	9.00
<b>23.Number of tenants and shops</b>	1158 Tenements,40 shops, 40 offices, Multipurpose hall, Conference hall		
<b>24.Number of expected residents / users</b>	Residential 5790 ,Commercial 264		
<b>25.Tenant density per hectare</b>	368		
<b>26.Height of the building(s)</b>			
<b>27.Right of way (Width of the road from the nearest fire station to the proposed building(s))</b>	Nearest Fire station is Yerwada fire station 14 Km		
<b>28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Turning radius for easy access of fire tender movement from all around the building is 9 m		
<b>29.Existing structure (s) if any</b>	No		
<b>30.Details of the demolition with disposal (If applicable)</b>	Not Applicable		

### 31.Production Details

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

### 32.Total Water Requirement

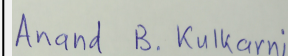
Dry season:	<b>Source of water</b>	Grampanchayat Kesnand
	<b>Fresh water (CMD):</b>	522
	<b>Recycled water - Flushing (CMD):</b>	265
	<b>Recycled water - Gardening (CMD):</b>	15
	<b>Swimming pool make up (Cum):</b>	00
	<b>Total Water Requirement (CMD) :</b>	802
	<b>Fire fighting - Underground water tank(CMD):</b>	600
	<b>Fire fighting - Overhead water tank(CMD):</b>	20 CMD per building
	<b>Excess treated water</b>	465



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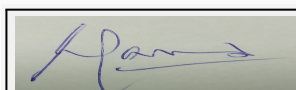
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<b>Wet season:</b>	<b>Source of water</b>	Grampanchayat Kesnand
	<b>Fresh water (CMD):</b>	522
	<b>Recycled water - Flushing (CMD):</b>	265
	<b>Recycled water - Gardening (CMD):</b>	00
	<b>Swimming pool make up (Cum):</b>	00
	<b>Total Water Requirement (CMD) :</b>	783
	<b>Fire fighting - Underground water tank(CMD):</b>	600
	<b>Fire fighting - Overhead water tank(CMD):</b>	20 CMD per building
	<b>Excess treated water</b>	480
<b>Details of Swimming pool (If any)</b>	Not applicable	

### 33.Details of Total water consumed

<b>Particulars</b>	<b>Consumption (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent (CMD)</b>		
	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>
<b>Water Requirement</b>									
Fresh water requirement	0	522	522	0	26	26	0	496	496
Domestic	0	265	265	0	0	0	0	265	265
Gardening	0	15	15	0	0	0	0	0	0

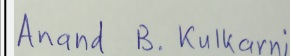
<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	6 metre BGL in rainy season, 15.17 m BGL in summer season, 11 m BGL in winter season
	<b>Size and no of RWH tank(s) and Quantity:</b>	Not applicable
	<b>Location of the RWH tank(s):</b>	Not applicable
	<b>Quantity of recharge pits:</b>	4 nos.
	<b>Size of recharge pits :</b>	
	<b>Budgetary allocation (Capital cost) :</b>	Rs. 8 Lakhs/annum
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 2 Lakhs/annum
	<b>Details of UGT tanks if any :</b>	Domestic UGT: 784 KLD Flushing UGT: 410 KLD Fire UGT : 600 KLD



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<b>35.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	North to South
	<b>Quantity of storm water:</b>	0.17 m3/min
	<b>Size of SWD:</b>	150-200 mm diameter pipe

<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	761
	<b>STP technology:</b>	MBBR
	<b>Capacity of STP (CMD):</b>	Total 3 STP- 2 no. of 350 , 1 no. of 60
	<b>Location &amp; area of the STP:</b>	STP 1:Near Wing D ,STP 2:Near Wing A, STP 3: Near Wing G, STP area: For 350 KLD: 180 m2 For 60 KLD: 48 m2
	<b>Budgetary allocation (Capital cost):</b>	Rs. 248.60 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs 34. 96 Lakhs/annum

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	30 Kg/day
	<b>Disposal of the construction waste debris:</b>	Backfilling
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	782 Kg/day
	<b>Wet waste:</b>	1823 Kg/day
	<b>Hazardous waste:</b>	Negligible
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	152 Kg/day
	<b>Others if any:</b>	Not any
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Handed over to authorized agency SWACH
	<b>Wet waste:</b>	Treated in OWC
	<b>Hazardous waste:</b>	Will be handed over to authorized agency as and when required
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Will be used as manure for gardening
	<b>Others if any:</b>	Not any
<b>Area requirement:</b>	<b>Location(s):</b>	OWC 1-Near Wing A OWC 2 ?Near UGT OWC 3: Near wing G
	<b>Area for the storage of waste &amp; other material:</b>	OWC 1-87.12 m2 , OWC 2 ?18.88 m2 ,OWC 3 -87.12 m2
	<b>Area for machinery:</b>	OWC 1-2.88 m2, OWC 2 ?1.12 m2, OWC 3 -2.88 m2
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 55.5 Lakhs
	<b>O &amp; M cost:</b>	Rs. 13.2 Lakhs/annum

### 37.Effluent Charecterestics

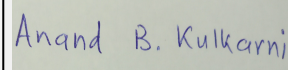
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
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1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not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

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	250 kVA	41	2	5	200	175
2	150 kVA	23	1	5	150	125
3	62.5 kVA	14	1	5	100	125
4	630 k VA	41	2	5	400	280
5	315 kVA	31	1	5	250	195

### 40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	HSD	41 L/hr,23 L/hr,14 L/hr,41 L/hr,31 L/hr

41.Source of Fuel

Authorized Fuel distribution centre

42.Mode of Transportation of fuel to site

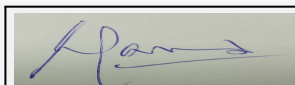
By road

### 43.Green Belt Development

Total RG area :	3711.06 m2
No of trees to be cut :	10
Number of trees to be planted :	340
List of proposed native trees :	All are native trees
Timeline for completion of plantation :	2 years

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

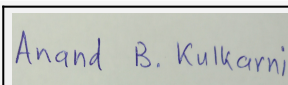
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
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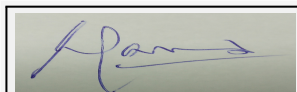
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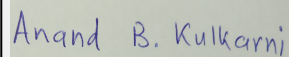
1	Ailanthus excelsa	Maharukh	16	Medicinal value, To control soil erosion
2	Albizzia lebecck	Shirish	16	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species ( Para kids eat seeds ).
3	Anthocephalus cadamba	Kadamb	16	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
4	Azardirachta indica	Neem	20	Medicinal value, To control soil erosion.To improve soil erosion
5	Bauhinia blakiana	Kanchanraj	16	Every part of the plant is medicinal, Drought tolerant species.
6	Bauhinia purpurea	Gulabi kanchan	16	Every part of the plant is medicinal ,Drought tolerant species.
7	Butea monosperma	Palas	16	Medicinal value, Bird attracting species , To control soil erosion.
8	Cassia fistula	Bahawa	16	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
9	Choclospermum religiosum	Sonsawar	16	Medicinal value, Native species
10	Cordia dichotoma	Bhokar	16	Medicinal value, Edible fruits,
11	Dalbergia sissoo	Shisav	20	Medicinal value, Bird attracting species
12	Ficus arnottiana	Payar	16	Drought tolerant species, Bird attracting species. To control soil erosion.
13	Ficus glomerata	Umber	12	Medicinal value, Edible fruits, Bird attracting species
14	Ficus retusa	Nandruk	12	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
15	Phyllanthus emblica	Awala	12	Medicinal value
16	Mangifera indica	Mango	12	Edible fruit, Bird attracting spe
17	Michellia champaca	Sonchafa	12	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing
18	Pongamia pinnata	Karanj	12	Medicinal value, Drought tolerant species, To control soil erosion. Hardy plant.
19	Saraca indica	Sitaashok	12	Medicinal value, Religious plant
20	Syzygium cumini	Jamun	12	Medicinal value, Edible fruit.
21	Bahunia racemosa	Apta	04	Every part of the plant is medicinal, Drought tolerant species.
22	Caryot aurens	Fishtail palm	04	Grown in any type of soil. Very Hardy.
23	Citrus species	Lemon	04	Medicinal value, Edible fruit
24	Erythrina indica	Pangara	04	Medicinal value, Edible fruit



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25	Gmelina arborea	Shivan	04	Medicinal value, Drought tolerant species, Bird attracting species
26	Mimosops elengii	Bakul	04	Fragrant flowers, Medicinal value, To control soil erosion.
27	Murraya koenigii	Kadipatta	04	Medicinal value, Edible leaves.
28	Aegle marmelos	Bel	04	Medicinal value
29	Nyctanthes arbor tristis	Parijatak	04	Fragrant flowers, Medicinal va
30	Putranjiva roxburghii	Putmjiva	04	Medicinal value, Drought tolerant species,
31	Roystonea regia	Bottle palm	04	Ornamental plant, Medicinal value, Birds & bats eat fruits.
32	Total	--	340	--
<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:

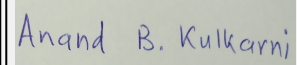
Serial Number	Name	C/C Distance	Area m2
1	Neriumolender pink	2'	177 nos.
2	Adhatoda vasica	2'	177 nos.
3	Cassia auriculata	2'	177 nos.
4	Cymopogon floxsus	1'	354
5	Plumbago capensis	1'	354
6	Tabernaemontana coronaria dwarf	1'6"	236
7	Stachytarpheta indica	1'	354
8	Stachytarpheta indica	1'	354
9	Cestrum nocturnum	1'6"	236
10	Beloperone guttata	1'	354
11	Jasminum sambac	1'	354
12	Hedychium flavescens	1'	354
13	Calliandra emarginata	2'	177
14	Cassia biflora	2'	177
15	Ficusbenjamina black	3'	118
16	Ficusbenjamina starlight	3'	118
17	Alpinia specious	1'	354
18	Euphorbia carcasana	1' 6"	236
19	Psuedoeranthemum reticulum	1'	354
20	Heliconia psittacorum	1'	354
21	Acalypha wilkesiana	1' 6"	236
22	Murraya exotica	1' 6"	236
23	Allamanda neriifolia	1' 6"	236
24	Hibiscus roseasinensis	2'	177
25	Caesalpinia pulcherrima	2'	177
26	Ixoradufii red	2'	177
27	Lagerstroemia indica	2'	177



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28	Lantana camera	1'1'	354
29	Eranthemum laxiflorum	1' 6"	236
30	Galphimia glauca	1'	354
31	Vitex negundo	1' 6"	236
32	Caesalpinia bonducella	1' 6"	236
33	Ziziphus mauritiana	3'	118
34	Cassia tora	3'	118
35	Passiflora edulis	1' 6"	236
36	Clematis gauriana	1'	354

### 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	50 KW
	<b>DG set as Power back-up during construction phase</b>	62.5 KVA
	<b>During Operation phase (Connected load):</b>	6115 KW
	<b>During Operation phase (Demand load):</b>	4892 KW
	<b>Transformer:</b>	630 kVA-9 nos for residential 630 KVA -2 nos. and 315 kVA-1 no ., for amenity
	<b>DG set as Power back-up during operation phase:</b>	2 no. of 250 kVA, 1 no. of 315 kVA, 2 no of 630 kVA, 1 no. of 62.5, 1 no. of 150 kVA
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	Not any

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

Energy saving measures: CFL, LED, Solar, Timer etc

Detail calculation and % of saving: 362976 KWH/year and 15% enrgy saving per year

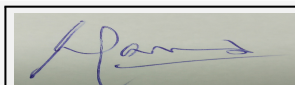
### 49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	CFL, LED, Solar, Timer etc	362976 KWH/year and 15% enrgy saving per year

### 50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	0	3 STP : 2 of 350 KLD, 1 of 60 KLD MBBR technology
OWC	0	Organic waste composter
DG set	0	As per CPCB guidelines

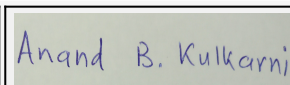
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 15.92 Lakh
	<b>O &amp; M cost:</b>	Rs. 2.38 Lakh/annum



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## 51.Environmental Management plan Budgetary Allocation

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

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water	Tanker water for construction, water monitoring	1.34
2	Air	Water For Dust Suppression ,air and noise monitoring	1.97
3	Noise	Noise monitoring	1.20
4	Soil	Top soil preservation and gardening	9.00
5	Socio	Safety, First Aid, Health Hygiene Facilities, Disinfection at site,Health Check Up,Crèches for children,Personal Protective Equipment,CFL lamps for labor hutments	44.29
6	Site sanitaion	Mobile toilets	10.2
7	Total	--	68.03

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

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water	Rain Water Harvesting, STP	256.80	36.96
2	Solid waste	OWC	62	6.7
3	Environmental monitoring	NA	0	23.28
4	Land	Gardening	79.06	12.64
5	Energy conservation	Solar water heating	15.92	2.38
6	Total	--	413.58	81.96

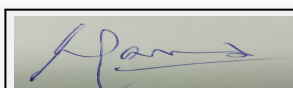
## 51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

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

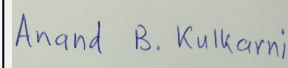
## 53.Traffic Management



**Shri Satish.M.Gavai**  
(Member Secretary SEIAA)

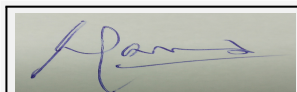
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**Shri. Anand Kulkarni**  
(Chairman SEIAA)

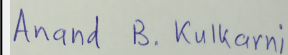
	Nos. of the junction to the main road & design of confluence:	1
Parking details:	Number and area of basement:	0
	Number and area of podia:	1 podium on building D
	Total Parking area:	Stilt car park - 6216.sq.m. Open car park - 4851.50 sq.m. Basement car parking - 1079 sq.m.
	Area per car:	Stilt floor - 35.72 sq.m. Open car park - 31.30 sq.m. Basement - 41.50 sq.m
	Area per car:	Stilt floor - 35.72 sq.m. Open car park - 31.30 sq.m. Basement - 41.50 sq.m
	Number of 2-Wheelers as approved by competent authority:	1570
	Number of 4-Wheelers as approved by competent authority:	345
	Public Transport:	Kesnanadgaon bus depot -0.34 Km
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 a (B2)
	Court cases pending if any	not any
	Other Relevant Informations	Online application was made on MoEF state portal on 10.10.2015 having proposal no. SIA/MH/NCP/31639/2015 .The project was recommended during 52 SEAC III meeting.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-10-2015
<b>Brief information of the project by SEAC</b>		



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PP submitted their application for prior Environmental clearance for total plot area of 37227.81Sq. Mtrs, BUA of 83666.91Sq. Mtrs, and FSI area of 44034.95 Sq. Mtrs. PP proposes to construct 7 nos. of residential buildings, 1 no. of commercial building having maximum height of 45.00 Mtrs, Amenity building consisting of multipurpose hall, 40 shops, 40 offices and one conference hall. The case was earlier considered in 48th meeting of the SEAC - III held from 7th to 10th June 2016. This committee took up the compliance report and other documents submitted by the Project Proponent for examination. The proposal is appraised as category 8 (a) B2.

## DECISION OF SEAC

### During discussion following points emerged:

1. PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2. PP to submit affidavit that no occupancy will be given till sustained availability of water to the project site.

**SEAC decided to recommend the proposal for Prior Environmental Clearance, subject to PP complying with above conditions.**

### Specific Conditions by SEAC:

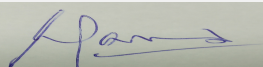
## SEIAA DECISION

Approved.

### Specific Conditions by SEIAA:

## FINAL RECOMMENDATION

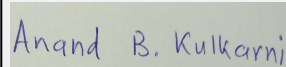
SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions



**Shri Satish M. Gavai**  
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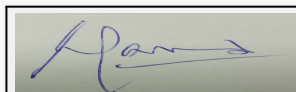
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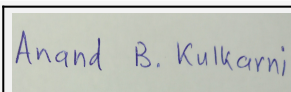
SEIAA Meeting 2017			
SEIAA Meeting number: 109 Meeting Date April 18, 2017			
<b>Subject:</b> Environment Clearance for Amendment of "Kalpataru Solitaire" at Vile Parle, Mumbai			
<b>General Information:</b> Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort,Mumbai-01 Time : 10.00 AM			
1.Name of Project	?Kalpataru Solitaire? at Vile Parle, Mumbai		
2.Type of institution	Private		
3.Name of Project Proponent	Name: M/s. Kalpataru Ltd. ?Address: 91, Kalpataru Synergy, Opp. Grand Hyatt, Santacruz (E), Mumbai 400 055. ?Telephone number: (022) 30645000 ?Mobile number: 9594015533 ?Email ID: jagdish.talreja@kalpataru.com		
4.Name of Consultant	Mr. H.K. Desai Enviro Analysts & Engineers Pvt. Ltd.,B-1003, Enviro House Western Edge II, Behind Metro Mall Western Express Highway Borivali (E), Mumbai-400066		
5.Type of project	Housing Project		
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment		
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC obtained on 11th December, 2015 vide letter SEAC2013/CR-100/TC-1.		
8.Location of the project	Residential Building on plot bearing C.T.S. No.25A/3 of Village Vile Parle (W), of JVPD scheme, Vile Parle (W), Mumbai.		
9.Taluka	mumbai		
10.Village	vile parle		
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)		
12.IOD/IOA/Concession/Plan Approval Number	IOD IOD/IOA/Concession/Plan Approval Number: CHE/WS/0254/K/337 (NEW) Approved Built-up Area: 18929		
13.Note on the initiated work (If applicable)	? Total constructed work (FSI+ Non FSI): 23,376.591 sq.mt. ? Date and area details in the necessary approvals issued by the competent authority (attach scan copies): Last CC dt. 21-07-2015 for the Amended Plans dt. 18-04-2015.		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Concession Document approved on date 04-oct-2012.		
15.Total Plot Area (sq. m.)	4,009.20 Sq. mt.		
16.Deductions	nil		
17.Net Plot area	4,009.20 Sq. mt.		
18.Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 20,568.06 b) Non FSI area (sq. m.): 12,377.96 c) Total BUA area (sq. m.): 32,946.02		
19.Total ground coverage (m2)	1,499.34		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	37.39 %		
21.Estimated cost of the project	1378600000		
<b>22.Number of buildings &amp; its configuration</b>			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	One building of 2 wings	Wing A & Wing B 3 Basements + Ground + 16 residential floors Fitness Centre & Swimming pool.	50.60 mt.
23.Number of tenants and shops	Flats: 135 Nos.		



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24.Number of expected residents / users	675 nos
25.Tenant density per hectare	414
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	18.30 mt.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Plot has existing roads on all four sides
29.Existing structure (s) if any	Existing building on site
30.Details of the demolition with disposal (If applicable)	DThe debris generated have been partly disposed off to dumping sites with permission from M.C.G.M. & partly reused on site

### 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

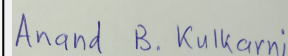
Dry season:	Source of water	M.C.G.M. & Tanker water of potable quality
	Fresh water (CMD):	61
	Recycled water - Flushing (CMD):	30
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	15
	Total Water Requirement (CMD) :	111
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	.
	Excess treated water	37



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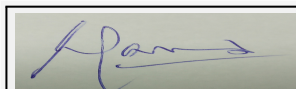
Wet season:	Source of water	MCGM/recyled water/ RWH Tank
	Fresh water (CMD):	61
	Recycled water - Flushing (CMD):	30
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	15
	Total Water Requirement (CMD) :	106
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	.
	Excess treated water	42
Details of Swimming pool (If any)	Swimming pool: From tanker water of potable quality = 15 KLD	

### 33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Between 2mt. - 3mt.
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	4 nos. of recharge pits with bore well along with Grease cum distilling chamber.
	Size of recharge pits :	4 nos. of recharge pits with bore well along with Grease cum distilling chamber.
	Budgetary allocation (Capital cost) :	Rs. 12.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs.0.60 Lakhs/Annum
	Details of UGT tanks if any :	at basement level

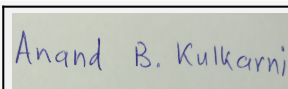
35.Storm water drainage	Natural water drainage pattern:	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal storm line
	Quantity of storm water:	0.08 m3/sec
	Size of SWD:	450 mm wide X 920 mm deep



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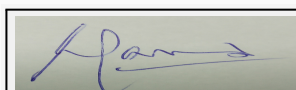
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	79
	<b>STP technology:</b>	MBBR
	<b>Capacity of STP (CMD):</b>	85
	<b>Location &amp; area of the STP:</b>	basement level
	<b>Budgetary allocation (Capital cost):</b>	Rs. 20.00 Lakhs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 5.00 Lakhs/Annum

### 36.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	The debris generated have been partly disposed off to dumping sites with permission from M.C.G.M. & partly reused on site
	<b>Disposal of the construction waste debris:</b>	? Quantity of the top soil to be preserved: Negligible ? Disposal of the construction waste debris: Construction waste will be partly reused for backfilling, counterweight of raft, road works & landscaping etc. and partly disposed off to designated dumping site
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	135 Kg/Day
	<b>Wet waste:</b>	203 Kg/Day
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	10 Kg
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Shall be handed over to local recyclers
	<b>Wet waste:</b>	Organic Waste Converter (OWC)
	<b>Hazardous waste:</b>	Not Applicable
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Use as manure within the premises for plants
	<b>Others if any:</b>	no
<b>Area requirement:</b>	<b>Location(s):</b>	Ground floor
	<b>Area for the storage of waste &amp; other material:</b>	45.66 Sq. mt
	<b>Area for machinery:</b>	.
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs.5.00 Lakhs
	<b>O &amp; M cost:</b>	Rs. 1.10 Lakhs/Annum

### 37.Effluent Charecterestics

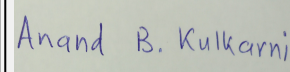
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			



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Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

### 38.Hazardous Waste Details

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

### 39.Stacks emission Details

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

### 40.Details of Fuel to be used

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

41.Source of Fuel

Not applicable

42.Mode of Transportation of fuel to site

Not applicable

### 43.Green Belt Development

Total RG area :	827.67 sq.m.
No of trees to be cut :	12
Number of trees to be planted :	24
List of proposed native trees :	as below
Timeline for completion of plantation :	at the end of cosstruction phase

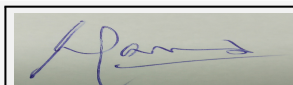
### 44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Michelia champaca	Sonchapha	4	flowering
2	Bauhinia purpurea	Butterfly tree	4	Every part of the plant is medicinal ,Drought tolerant species.
3	Alistonia scholaris	Devils tree/ Satvin	4	flowering
4	Millingtonia hortensis	Cork Tree	4	shady

### 45.Total quantity of plants on ground

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

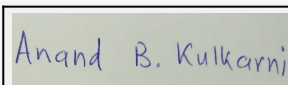
Serial Number	Name	C/C Distance	Area m2
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1	Vitex nergundo	2	.
2	Adatoda vasica	2	.
3	Plumbago zeylinica	2	.
4	Tabernamontana	2	.
5	Bougavillae sps.	2	.
6	Alamanda cathartica	2	.
7	Tecoma guadichaudi	2	.

## 47. Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	TATA
	<b>During Construction Phase: (Demand Load)</b>	100 KW
	<b>DG set as Power back-up during construction phase</b>	100 KVA
	<b>During Operation phase (Connected load):</b>	1139kw
	<b>During Operation phase (Demand load):</b>	2740 kw
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	1 D.G. set of capacity 600 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:

E? Energy saving measures:

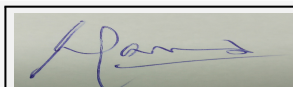
- o Common area lighting with CFL/T5 Lamps
- o Energy efficient fluorescent lamps & CFL lamps with high frequency ballast which give more light output for the same watts consumed and therefore require less nos. of fixtures
- o Solar systems shall be provided
- o Equipment efficiency standards
- o Power factor be maintained between 0.95 and unity for major equipment like lift, STP etc. This will reduce electrical power distribution losses in the installation
- o Timers & moti

## 49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	As above	21%

## 50. Details of pollution control Systems

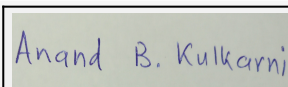
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable



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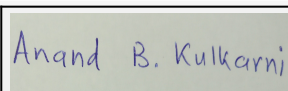
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>		<b>Capital cost:</b>	Rs. 7.50 Lakhs				
		<b>O &amp; M cost:</b>	Rs. 0.15 lakhs/Annum				
<b>51.Environmental Management plan Budgetary Allocation</b>							
<b>a) Construction phase (with Break-up):</b>							
<b>Serial Number</b>	<b>Attributes</b>	<b>Parameter</b>	<b>Total Cost per annum (Rs. In Lacs)</b>				
1	Air Environment	Water for Dust Suppression	12.96				
2	Land Environment	Site Sanitation	5.00				
3	Environmental Monitoring	Environmental Monitoring	2.16				
4	EHS	Disinfection	3.60				
5	EHS	Health Check up	5.40				
<b>b) Operation Phase (with Break-up):</b>							
<b>Serial Number</b>	<b>Component</b>	<b>Description</b>	<b>Capital cost Rs. In Lacs</b>	<b>Operational and Maintenance cost (Rs. in Lacs/yr)</b>			
1	water	STP cost	20	5.00			
2	water	Rain Water Harvesting (8 nos. of recharge pits)	12	0.60			
3	Environment	Environmentalmonitoring	MOEF approved agency for Monitoring. Hence no set up cost	11.13			
4	energy	Solar system	7.50	0.15			
5	land	Gardening	4.55	0.73			
6	solid waste	Cost for Treatment of biodegradablegarbage in Organic Waste Converter	5.00	1.10			
7	Other maintenance	SWM, Water tanks, DG	.	1.62			
<b>51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)</b>							
<b>Description</b>	<b>Status</b>	<b>Location</b>	<b>Storage Capacity in MT</b>	<b>Maximum Quantity of Storage at any point of time in MT</b>	<b>Consumption / Month in MT</b>	<b>Source of Supply</b>	<b>Means of transportation</b>
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>52.Any Other Information</b>							
No Information Available							
<b>53.Traffic Management</b>							
	<b>Nos. of the junction to the main road &amp; design of confluence:</b>		Two entry and exit to the main road				



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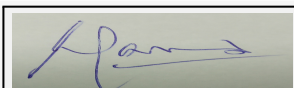
<b>Parking details:</b>	<b>Number and area of basement:</b>	3 basement
	<b>Number and area of podia:</b>	nil
	<b>Total Parking area:</b>	4,988.68 Sq. mt. (excluding services)
	<b>Area per car:</b>	16.68 Sq. mt.
	<b>Area per car:</b>	16.68 Sq. mt.
	<b>Number of 2-Wheelers as approved by competent authority:</b>	.
	<b>Number of 4-Wheelers as approved by competent authority:</b>	299 Nos.
	<b>Public Transport:</b>	Nil
	<b>Width of all Internal roads (m):</b>	4.50 to 6.00 mt. wide Internal driveways.
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Arabian Sea ? Within 1.20 Km. Mahim Creek ? Approx. 6.70 Km Mithi river ? Approx. 4.85 Km Western Express High Way- 2.00 Km
	<b>Category as per schedule of EIA Notification sheet</b>	shedule 8 a, category B
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	Nil
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	29-02-2016

### Brief information of the project by SEAC

Representative of PP, Manisha Vishwasrao, J.H. Talreja was present during the meeting along with environmental consultant M/s EAEPL. PP informed that they have received earlier EC vide letter dated SEAC- 2013/CR-100/TC-1 dated 11/12/2015. Proposal is an amendment in EC. It is informed that there has been addition of built up area due to additional FSI allotted by MHADA. Additional B.U. Area is proposed to be utilized by increasing the floor plate. As per letter issued by MHADA, a condition w.r.t. Ceiling on carpet area of tenement is deleted. Hence tenement of higher carpet area is proposed. Due to the proposed amendment there is reduction in the environmental parameters. Committee noted comparative changes due to proposed expansion/amendment

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. PP stated that total plot area is 4009.20 m2 & total construction area of the project is 32,946.02 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, presentation & plans submitted are taken on the record.

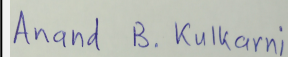
### DECISION OF SEAC



**Shri Satish.M.Gavai**  
(Member Secretary SEIAA)

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**Shri. Anand Kulkarni**  
(Chairman SEIAA)

**During discussion following points emerged:**

1. PP to submit compliance report with comparative statements of conditions stipulated in earlier EC. 2. PP to explore possibility of shifting entrance of South east corner to the North.
3. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

**After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.**

**Specific Conditions by SEAC:**

**SEIAA DECISION**

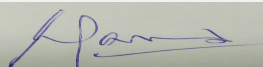
The points raised by SEAC II have not been complied with. Deferred

**Specific Conditions by SEIAA:**

- 1) PP to submit affidavit that they are using minimum 10% for solar lighting

**FINAL RECOMMENDATION**

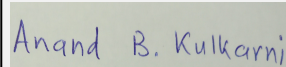
SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days



**Shri Satish.M.Gavai**  
(Member Secretary SEIAA)

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**Shri. Anand Kulkarni**  
(Chairman SEIAA)