

85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019


Subject: Environment Clearance for Building & Construction Project

Is a Violation Case: No

1.Name of Project	Arihant Antariksh developed by Arihant Estates
2.Type of institution	Private
3.Name of Project Proponent	Arihant Estates
4.Name of Consultant	EIA Coordinator : Sourabh S. Jaiswar for M/s S G M Corporate Consultant Pvt Ltd
5.Type of project	Building & Construction Project
6.New project/expansion in existing project/modernization/diversification in existing project	Redevelopment Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No.5, Sector 9, Vashi. Navimumbai
9.Taluka	Thane
10.Village	Vashi
Correspondence Name:	Nimesh Shah
Room Number:	1501
Floor:	15
Building Name:	Arihant Aura
Road/Street Name:	Thane Belapur Road
Locality:	MIDC Turbhe
City:	Navimumbai
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8760.340
16.Deductions	81.657
17.Net Plot area	8678.683
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 21444.207
	b) Non FSI area (sq. m.): 48270.005
	c) Total BUA area (sq. m.): 69714.212
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 94058.031
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 16-10-2017
19.Total ground coverage (m2)	5025.69
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	57
21.Estimated cost of the project	984000000

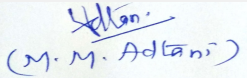
22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
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1	Tenants Buiding Wing A	Stilt + 3 Podium + 1 Fire Cutoff Floor + 35 Residential Floors	120.00 m
2	Tenants Buiding Wing B	Stilt + 3 Podium + 1 Fire Cutoff Floor + 21 Residential Floors	79.82 m
3	Sale Building Wing C	Stilt + 3 Podium + 1Fire Cutoff Floor +26 Residential Floors	109.80 m
23.Number of tenants and shops	Tenements Rehab : 432 nos; Tenements Sale : 38 no's		
24.Number of expected residents / users	2350		
25.Tenant density per hectare	500		
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	16.0 m		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m		
29.Existing structure (s) if any	18 existing buildings of Gr + 2 floors		
30.Details of the demolition with disposal (If applicable)	For 18 Buildings, 14400 cu mtr C & D waste & 380 MT steel Scrap + 10% other scrap like wood, Aluminum 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

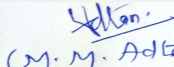
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Dry season:	Source of water	NMMC								
	Fresh water (CMD):	212								
	Recycled water - Flushing (CMD):	106								
	Recycled water - Gardening (CMD):	07								
	Swimming pool make up (Cum):	00								
	Total Water Requirement (CMD) :	325								
	Fire fighting - Underground water tank(CMD):	100								
	Fire fighting - Overhead water tank(CMD):	3 X 20								
	Excess treated water	135								
Wet season:	Source of water	NMMC								
	Fresh water (CMD):	212								
	Recycled water - Flushing (CMD):	106								
	Recycled water - Gardening (CMD):	00								
	Swimming pool make up (Cum):	00								
	Total Water Requirement (CMD) :	318								
	Fire fighting - Underground water tank(CMD):	100								
	Fire fighting - Overhead water tank(CMD):	3 X 20								
	Excess treated water	135								
Details of Swimming pool (If any)	NA									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	



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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	4-5 m
	Size and no of RWH tank(s) and Quantity:	02 (30 & 80 cum)
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	12 Lakhs
	Budgetary allocation (O & M cost) :	0.75 Lakhs
	Details of UGT tanks if any :	domestic : 220 cum Flushing : 110 cum Fire : 100 cum
35.Storm water drainage	Natural water drainage pattern:	Yes
	Quantity of storm water:	0.109 cum/sec
	Size of SWD:	400 mm wide x 600 mm
Sewage and Waste water	Sewage generation in KLD:	275
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	01 (300 cum)
	Location & area of the STP:	Below Ground & 150.00 sq.m
	Budgetary allocation (Capital cost):	65.0
	Budgetary allocation (O & M cost):	8.20
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	or 18 Buildings, 14400 cu mtr C & D waste & 380 MT steel Scrap + 10% other scrap like wood, Aluminum etc & during construction 250 to 500 kg/day
	Disposal of the construction waste debris:	Low lying & making of internal road.
Waste generation in the operation Phase:	Dry waste:	470 kg/day
	Wet waste:	705 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	25 Kg
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Segregated/Sale/Collected by local authority
	Wet waste:	Composting through OWC or Biogas through digester
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	Location(s):	Ground
	Area for the storage of waste & other material:	40.50 sq.m
	Area for machinery:	10.0 sq.m
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	15.0
	O & M cost:	4.0

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

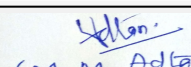
40. Details of Fuel to be used

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


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43.Green Belt Development	Total RG area :	1301.800 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	75
	List of proposed native trees :	yes
	Timeline for completion of plantation :	Dec 20

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	Sapota	Chikoo	05	Provides shade, edible fruits
2	Beng-Dumur	Umbar	05	Provides shade, edible fruits
3	Mango	Amba	05	Provides shade, edible fruits
4	Polyalthia	Ashok	25	Evergreen tree helps in controlling noise pollution
5	Nyctanthus arbor	Parijatak	10	It's a Shrub/tree with fragrant flowers
6	Mimusopes elengi	Bakul	10	Evergreen tree, timber yielding and medicinal plant
7	Roystonea regia	Royal palm	10	Nitrogen fixer, ornamental plant
8	Azardiractha indica	Neem	05	Shady tree for roadside plantation and has medicinal uses

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	ANNEXURE	ANNEXURE	ANNEXURE

47.Energy

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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	500 KVA
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	5560 KW
	During Operation phase (Demand load):	3680 KVA
	Transformer:	1500 KVA X 3
	DG set as Power back-up during operation phase:	250 & 400 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 & landscape lightings.
- ? 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	Light fixtures will be used with energy saving LED & T5 fluorescent tube with electronic chocks, Use of Solar energy for street & landscape lightings.	about 14.69 % energy savings in common areas.

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:	75
	O & M cost:	5.5

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Sanitation	pH, BOD, COD etc.	2.5
2	Health	checkup	2.0
3	Health	checkup	2.0

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	pH, BOD, COD etc.	65.0	8.20
2	RAIN WATER HARVESTING	NA	12.0	7.5
3	SOLID WASTE MANAGEMENT	PH, NPK	15.0	4.0
4	ENERGY SAVING MEASURES	LED, Solar Energy	75.0	5.5
5	Green Belt	plantation	40.0	3.0

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

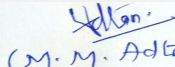
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	Number and area of basement:	NA
	Number and area of podia:	03 (17333.257 sq. m)
	Total Parking area:	22550 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:	100
	Number of 4-Wheelers as approved by competent authority:	652
	Public Transport:	Bus Stop
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	NA


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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 a (B2)
	Court cases pending if any	NA
	Other Relevant Informations	This is a compliance case which was considered in 45th meeting of SEAC-II on dated April 2016. Now, We have also submitted online application on Parivesh portal dated 05/11/2018. Our file No is SIA/MH/NCP/84717/2018.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	06-03-2016

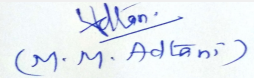
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	NA
Water Budget	Total Water Requirement Dry season: 325 KLD Wet season: 318 KLD
Waste Water Treatment	Sewage generation in KLD: 275 STP technology: MBBR Technology Capacity of STP(CMD): 01 (300 cum)
Drainage pattern of the project	Natural water drainage pattern: Yes Quantity of storm water: 0.109 cum/sec
Ground water parameters	Level of the Ground water table: 4-5 meters.
Solid Waste Management	Dry waste: 470 kg/day Wet waste: 705 kg/day
Air Quality & Noise Level issues	NA
Energy Management	During Construction Phase: (Demand Load) : 500 KVA During Operation phase (Connected load) : 5560 KW During Operation phase (Demand load) : 3680 KVA Total Energy Savings : 14.69 %
Traffic circulation system and risk assessment	NA
Landscape Plan	Total RG area : 1301.800 sq.m
Disaster management system and risk assessment	NA
Socioeconomic impact assessment	NA
Environmental Management Plan	Construction Phase Total Cost per annum (Rs. In Lacs):- 6.5 Lacs Operation Phase, Capital cost Rs. In Lacs :- 207 Lacs Operational and Maintenance cost (Rs. in Lacs/yr) :- 28.2 Lacs
Any other issues related to environmental sustainability	NA


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Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant M/s S G M Corporate Consultant Pvt Ltd. PP stated that, the project under consideration is redevelopment project. PP stated that, the project was earlier considered in 45th Meeting of SEAC-2 held on April 2016. PP further stated that the due to delay in finalizing the redevelopment policy of Navi Mumbai, project is delayed. PP stated that, the total plot area of the project is 8760.340 Sq. mt. having total construction area 69714.212 Sq. mt. (FSI - 21444.207 Sq. mt.+ NON FSI- 48270.005 Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Tenants Buiding Wing A	Stilt + 3 Podium + 1 Fire Cutoff Floor + 35 Residential Floors	120.00
Tenants Buiding Wing B	Stilt + 3 Podium + 1 Fire Cutoff Floor + 21 Residential Floors	79.82
Sale Building Wing C	Stilt + 3 Podium + 1 Fire Cutoff Floor +26 Residential Floors	109.80

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. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the


DECISION OF SEAC

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

Specific Conditions by SEAC:

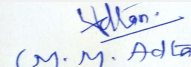
- 1) PP to submit Debris management plan as per construction and demolition waste management rules approved by NMMC.
- 2) PP to submit HRC Noc.
- 3) PP to ensure that, total water demand supply should be by NMMC.

FINAL RECOMMENDATION


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

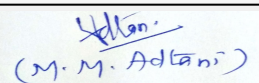
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85th SEAC-II meeting

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Subject: Environment Clearance for Proposed Residential cum commercial Project


Is a Violation Case: No

1.Name of Project	Proposed Residential cum commercial Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. A surti Developers Pvt Ltd
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Residential cum Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	In the plot area of 7176.91 sq.m The work of construction of Building 1 with the configuration St + P + 22 floors as approved by local planning Authority i.e. MMRDA for the FSI area of 9207.64 sq.m as per the FSI potential prevailing at the time of approval & Non FSI area 8770.20 sq.m (Total construction area = 17977.84 sq.m) was commenced and completed as per the CC dtd 16th February 2010.
8.Location of the project	Plot bearing CTS No. 288 B, village Bandivali, Oshiwara
9.Taluka	Andheri
10.Village	Bandivali
Correspondence Name:	M/s. A surti Developers Pvt Ltd
Room Number:	CTS No.288
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Amrut Nagar,Bandivali Village, Jogeshwari (W)
City:	Mumbai
11.Area of the project	Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	MMRDA Principle Approval Under No. TCP (P-2)/ODC/CC/3.136/IV/402/2018 Dated 23/02/2018 IOD/IOA/Concession/Plan Approval Number: MMRDA Principle Approval Under No. TCP (P-2)/ODC/CC/3.136/IV/402/2018 Dated 23/02/2018 Approved Built-up Area: 42080.25
13.Note on the initiated work (If applicable)	In the plot area of 7176.91 sq.m, the work of construction of Building 1 with the configuration St + P + 22 floors as approved by local planning Authority i.e. MMRDA for the FSI area of 9207.64 sq.m as per the FSI potential prevailing at the time of approval & Non FSI area 8770.20 sq.m (Total construction area = 17977.84 sq.m) was commenced and completed as per the CC dtd 16th February 2010.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Principle approval from MMRDA.
15.Total Plot Area (sq. m.)	7176.91
16.Deductions	1301.58
17.Net Plot area	5875.33
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 22880.55 b) Non FSI area (sq. m.): 19199.7 c) Total BUA area (sq. m.): 42080.25
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 19578.36 Approved Non FSI area (sq. m.): 1658.26 Date of Approval: 23-02-2018
19.Total ground coverage (m2)	4597.64
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.27%
21.Estimated cost of the project	1150000000.00


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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Existing : Building 1 (Wing A)	St. + P + 22 floors	69.85
2	Proposed: Building 2 (Wing B1, B2, B3)	2B + Gr (pt) + 1st to 4th commercial (pt) + 5th to 19th floors	63.60

23.Number of tenants and shops	Existing Building 128 nos. Proposed building: Residential:168nos. Offices: 10 nos. Shops: 2 nos.
24.Number of expected residents / users	Existing Building 640 nos. , Proposed building Residential 765 nos. & Commercial 126 nos.
25.Tenant density per hectare	510 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))	25.00 m wide D.P Road & 13.40 m wide existing D P Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 m
29.Existing structure (s) if any	Building 1 of configuration St + P + 22 floors
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

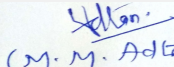
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Dry season:	Source of water	MCGM STP Treated water								
	Fresh water (CMD):	129 KLD								
	Recycled water - Flushing (CMD):	66 KLD								
	Recycled water - Gardening (CMD):	8 KLD								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	203 KLD								
	Fire fighting - Underground water tank(CMD):	350 cum								
	Fire fighting - Overhead water tank(CMD):	70 cum								
	Excess treated water	119 KLD								
Wet season:	Source of water	MCGM I RWHI STP Treated water								
	Fresh water (CMD):	129 KLD								
	Recycled water - Flushing (CMD):	66 KLD								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	195 KLD								
	Fire fighting - Underground water tank(CMD):	350 cum								
	Fire fighting - Overhead water tank(CMD):	70 cum								
	Excess treated water	127 KLD								
Details of Swimming pool (If any)	NA									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	2 meters
	Size and no of RWH tank(s) and Quantity:	1 no. of tanks of total capacity 22 KLD (1 day storage capacity)
	Location of the RWH tank(s):	Below ground level
	Quantity of recharge pits:	1 no. of recharge pit
	Size of recharge pits :	1.7 m X 3 m
	Budgetary allocation (Capital cost) :	Rs. 3.3 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.33 Lakh/year
	Details of UGT tanks if any :	Domestic tank: 129 cum Flushing tank: 66 cum Fire tank: 350 cum


35.Storm water drainage	Natural water drainage pattern:	Towards east
	Quantity of storm water:	0.142 m/sec
	Size of SWD:	600mm X 900mm

Sewage and Waste water	Sewage generation in KLD:	183 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 no. of STP with capacity of 200 KLD
	Location & area of the STP:	Below Ground level
	Budgetary allocation (Capital cost):	Rs. 35 Lakh
	Budgetary allocation (O & M cost):	Rs. 5.5 Lakh/year

36.Solid waste Management

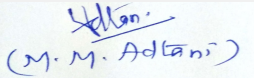
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Excavated waste material generated will be reused for backfilling and rest shall be disposed by covered trucks to the authorized landfill sites with permission from Municipal authority
	Disposal of the construction waste debris:	Will be used for Landscaping

Waste generation in the operation Phase:	Dry waste:	300 Kg/Day
	Wet waste:	431 Kg/Day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Will be hand over to Local Recyclers for recycling
	Wet waste:	Will be processed in the owe. manure obtained shall be used for landscaping I Gardening , Excess manure shall be sold to nearby end users
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	NA
Area requirement:	Location(s):	Ground level
	Area for the storage of waste & other material:	25 sq.m
	Area for machinery:	8 sq.m
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 11.00 Lakhs
	O & M cost:	Rs. 3.50 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			
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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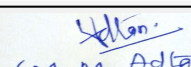
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42.Mode of Transportation of fuel to site		Not applicable		
43.Green Belt Development	Total RG area :	1507.35 Sq.mt		
	No of trees to be cut :	-		
	Number of trees to be planted :	75		
	List of proposed native trees :	As listed below		
	Timeline for 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	Azadirachta indica	Neem	8	Medicinal tree
2	Saraca asoca	Sita Ashok	6	Evergreen Tree
3	Pongamia pinnata	Karanj	6	Flowering plant
4	Ficus retusa	Nandruk	3	Evergreen Tree
5	Cassia fistula	Bahava	8	Flowering plant
6	Nyctanthes arbortristis	Parijatak	7	Flowering plant
7	Bauhinia racemosa	Apta	8	Evergreen tree
8	Anthocephalus cadamba	Kadamb	7	Evergreen tree
9	Mimusops elengi	Bakul	8	Evergreen tree
10	Michelia champaca	Son Chafa	5	Flowering plant
11	Putranjiva roxburghii	Putranjiva	9	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	NA	NA	NA	
47.Energy				


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Power requirement:	Source of power supply :	Reliance
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	4700.87 KW
	During Operation phase (Demand load):	2039.76 KW
	Transformer:	1500 KVA
	DG set as Power back-up during operation phase:	1 X 380 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Landscape Lighting with LED Lamps
Solar Water Heating System

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Savings	16 %

50. Details of pollution control Systems

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


Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 41.00 Lakh
	O & M cost:	Rs. 1.00 Lakh/year

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

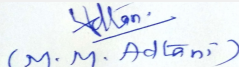
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water for Dust Suppression	2.00
2	EHS	Site Sanitation	2.00
3	Environmental Monitoring	Environmental Monitoring	6.00
4	EHS	Disinfection	1.50
5	EHS	Health Check Up	1.50

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	Water Environment	STP	35.00	5.50
2	Water Environment	RWH	3.30	0.33
3	Solid waste Management	OWC	17.00	3.50
4	Land Environment	Landscape	37.60	7.50
5	Energy savings	Solar	41.00	1.00

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


Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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:	Entries & Exit: 5 Nos
Parking details:	Number and area of basement:	2 Basement of area 2959.06 sq.m
	Number and area of podia:	Proposed bldg.:4 podiums of area 2467.24 sq.m , Existing building: 1 podium of area 3035.16 sq.m
	Total Parking area:	5835.53 sq.m
	Area per car:	24 sq.m
	Area per car:	24 sq.m
	Number of 2-Wheelers as approved by competent authority:	Nil
	Number of 4-Wheelers as approved by competent authority:	Existing building: 96 nos. ,Proposed building: 240 nos.
	Public Transport:	Nil
	Width of all Internal roads (m):	6 m wide
	CRZ/ RRZ clearance obtain, if any:	Not Applicable


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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park (Aerial distance from project boundary to ESZ boundary - 0.85 km)
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	NA
Water Budget	Total Water Requirement Dry season: 203 KLD Wet season:195 KLD
Waste Water Treatment	Sewage generation in KLD: 183 KLD STP technology: MBBR Technology Capacity of STP (CMD): 1 no. of STP with capacity of 200 KLD
Drainage pattern of the project	Natural water drainage pattern: Towards east Quantity of storm water: 0.142 m/sec
Ground water parameters	Level of the Ground water table: 2 meters
Solid Waste Management	Dry waste: 300 Kg/Day Wet waste: 431 Kg/Day
Air Quality & Noise Level issues	NA
Energy Management	During Construction Phase: (Demand Load) 100 KW During Operation phase (Connected load): 4700.87 KW During Operation phase (Demand load): 2039.76 KW Total Energy Savings 16 %
Traffic circulation system and risk assessment	NA
Landscape Plan	Total RG area : 1507.35 Sq.mt
Disaster management system and risk assessment	NA
Socioeconomic impact assessment	NA
Environmental Management Plan	Construction phase, Cost per annum (Rs. In Lacs): 13 Lacs Operation Phase, Capital cost Rs. In Lacs :-133.9 Lacs Operational and Maintenance cost (Rs. in Lacs/yr) :- 17.83 Lacs
Any other issues related to environmental sustainability	NA

Brief information of the project by SEAC

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PP Mr. Naren Pagrani, Director & Architect Mr. Kalgutkar were present during the meeting along with environmental consultant M/s. Enviro Analysts & Engineers Pvt. Ltd.

The project proposal was considered in 62nd (part-C) SEAC-2 meeting held on 22-06-2018 & was deferred with observation to submit fresh consolidated statement including all environmental parameters. During meeting it is noted that, PP has revised all requisite details & made presentation accordingly.

PP informed that they have carried out construction of Building 1 with the configuration St+ P + 22 floors as approved by local planning Authority i.e. MMRDA in 2008 for total construction area 17977.84 sq.m. PP further informed that at that time the plot potential was below 20,000 Sq.mt. and the constructed building has also received occupation certificate (OC) dated 21.02.2014

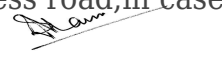
PP further informed that, due to allocation of additional FSI by MMRDA now project under consideration is with total plot area 7176.91 Sq. mt. having total construction area 42080.25 Sq. mt. (FSI - 22880.55 Sq. mt.+ NON FSI- 19199.7 Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Existing : Building 1 (Wing A)	St. + P + 22 floors	69.85
Proposed: Building 2 (Wing B1, B2,B3)	2B + Gr (pt) + 1st to 4th commercial (pt) + 5th to 19 th floors	63.60

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. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

Fire engine movement plan submitted by the PP was also deliberated at length. It is noted that Goregaon fire station is 1.22Km away from project site & project abuts on 25 mt wide DP road on East side & 13.40 mt wide DP road on South side. Committee also noted the CFO NoC dated 22/12/2017 granted for the project. Further to this, Committee noted that, PP has also obtained the NoC dated 17/10/2018 from adjoining society (Kapadia complex co-op housing society) for fire engine temporarily entering on 6 mtr internal

access road, in case of emergencies.


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DECISION OF SEAC

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

Specific Conditions by SEAC:

- 1) As per CFO NoC dated 22/12/2017, PP to ensure that, there shall be no compound wall on south-east sides of the building and all access & fire tender access should be free of encumbrances.
- 2) PP to upload the copy of earlier approved plan which was submitted during the meeting.
- 3) PP to ensure that STPs should be with adequate ventilation.
- 4) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area, as identified by Environment Department.

FINAL RECOMMENDATION

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

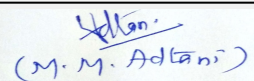
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**Shri M.M.Adtani (Chairman
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85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019

Subject: Environment Clearance for Proposed project on plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane by M/s. Birla Estates (A Division of Century Textiles and Industries Limited)

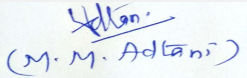
Is a Violation Case: No

1.Name of Project	Proposed project on plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane by M/s. Birla Estates (A Division of Century Textiles and Industries Limited)
2.Type of institution	Private
3.Name of Project Proponent	Birla Estates (A Division of Century Textiles and Industries Limited)
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Residential and Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane
9.Taluka	Kalyan
10.Village	Shahad
Correspondence Name:	Mr. Sachin Sinnarkar
Room Number:	-
Floor:	Level 8
Building Name:	Birla Aurora
Road/Street Name:	Dr. Annie Besant Road
Locality:	Worli
City:	Mumbai
11.Area of the project	Kalyan Dombivali Municipal Corporation (KDMC)
12.IOD/IOA/Concession/Plan Approval Number	Layout Approval No. KDMC TP 1293 dated 31st May 2018
	IOD/IOA/Concession/Plan Approval Number: Layout Approval No. KDMC TP 1293 dated 31st May 2018
	Approved Built-up Area: 154168
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Layout Approval No. KDMC TP 1293 dated 31st May 2018
15.Total Plot Area (sq. m.)	85,220 sq. m.
16.Deductions	Area not in possession: 2,095 sq. m. + Area under 30 m wide road: 4,763 sq. m.
17.Net Plot area	78,362 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): For owner : 45,955.79 sq. m. and for KDMC : 6000 sq. m.
	b) Non FSI area (sq. m.): 1,02,212.21 sq. m.
	c) Total BUA area (sq. m.): 154168
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): For owner : 45955.79 sq. m. and for KDMC : 6000 sq. m.
	Approved Non FSI area (sq. m.): 102212.21 sq. m.
	Date of Approval: 31-05-2018
19.Total ground coverage (m2)	17,140 sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22%
21.Estimated cost of the project	3870000000


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22. Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential Tower-A	Ground + 5 Parking Floors + Stilt + 23 residential floors	89.4
2	Residential Tower-B	Ground + 1 Parking Floor + 28 residential floors (with 1 shop at Stilt level)	89.4
3	Residential Tower-C	Ground + 1 Parking Floors + 10 residential floors	36.3
4	Residential Tower-D	Ground + 1 Parking Floors + 10 residential floors	36.3
5	Residential Tower-E	Ground + 1 Parking Floors + 10 residential floors	36.3
6	Residential Tower-F	Ground + 1 Parking Floor + 28 residential floors	89.4
7	Residential Tower-G	Ground + 5 Parking Floors + Stilt + 23 residential floors	89.4
8	Podium Area	Ground + 6 Parking Floors + Stilt	18.6
9	Clubhouse	Ground + 0 Floors	6.65
10	KDMC Non-Residential Building	Ground + 3 Floors and Ground + 0 Floors	18.2

23. Number of tenants and shops	Number of tenements : 682, Number of shops : 1, KDMC Non-Residential Building of built-up area 6,000 sq. m.
24. Number of expected residents / users	Total : 4195 (including occupants of residential buildings : 3268 + clubhouse : 327 + commercial building : 600 + visitors : 387)
25. Tenant density per hectare	300/Hectare
26. Height of the building(s)	
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	Public access: 30 m wide DP road, Right of way: 18 m wide road, Internal roads: 9 m wide roads
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	4.738 m (internal turning radius on podium)
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


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32.Total Water Requirement

Dry season:	Source of water	Kalyan Dombivali Municipal Corporation (KDMC)
	Fresh water (CMD):	327.3
	Recycled water - Flushing (CMD):	170.25
	Recycled water - Gardening (CMD):	165.376
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	665.926
	Fire fighting - Underground water tank(CMD):	500 m3/day for residential buildings and 100 m3/day for KDMC non-residential building
	Fire fighting - Overhead water tank(CMD):	30 m3/day in each wing of residential buildings and 20 m3/day for KDMC non-residential building
	Excess treated water	105.95
Wet season:	Source of water	Kalyan Dombivali Municipal Corporation (KDMC)
	Fresh water (CMD):	327.3
	Recycled water - Flushing (CMD):	170.25
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	500.55
	Fire fighting - Underground water tank(CMD):	500 m3/day for residential buildings and 100 m3/day for KDMC non-residential building
	Fire fighting - Overhead water tank(CMD):	30 m3/day in each wing of residential buildings and 20 m3/day for KDMC non-residential building
	Excess treated water	271.33
Details of Swimming pool (If any)	Swimming pool size is proposed to be 25 m X 10 m X 1.2 m. Fresh water requirement for swimming pool will be sufficed from tanker water supply.	

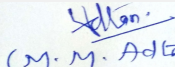
33.Details of Total water consumed

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


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Below 6 m
	Size and no of RWH tank(s) and Quantity:	1 No. of size 4 m X 3.5 m X 4 m deep for Building-A & B, 1 No. of size 5 m X 5 m X 4 m deep for Building-C, D & E, 1 No. of size 3.5 m X 3.5 m X 4 m deep for Building-F & G, 1 No. each of size 3 m X 3 m X 4 m deep for KDMC Non-Residential Building and Clubhouse, 1 No. of size 3 m X 2.5 m X 3 m
	Location of the RWH tank(s):	Below ground level
	Quantity of recharge pits:	31 Nos. for residential buildings and 6 Nos. for KDMC Non-Residential building
	Size of recharge pits :	All recharge pits of size 3 m X 3 m X 4 m deep
	Budgetary allocation (Capital cost) :	Rs. 3,50,000 per pit
	Budgetary allocation (O & M cost) :	Rs. 35,000 per pit
	Details of UGT tanks if any :	1 No. of size 4 m X 3.5 m X 4 m deep for Building-A & B 1 No. of size 5 m X 5 m X 4 m deep for Building-C, D & E 1 No. of size 3.5 m X 3.5 m X 4 m deep for Building-F & G 1 No. each of size 3 m X 3 m X 4 m deep for KDMC Non-Residential Building and Clubhouse
35.Storm water drainage	Natural water drainage pattern:	Natural drainage pattern will be maintained.
	Quantity of storm water:	Will be designed as per maximum rainfall.
	Size of SWD:	Storm water drain channels of following sizes will be provided : 750 mm X 1140 mm deep, 600 mm X 1145 mm deep, 600 mm X 1280 mm deep, 450 mm X 765 mm deep, 450 mm X 650 mm deep, 600 mm X 1330 mm deep, 600 mm X 1270 mm deep
Sewage and Waste water	Sewage generation in KLD:	464.82
	STP technology:	MBBR
	Capacity of STP (CMD):	490 cmd (1 STP of 450 cmd capacity for Residential buildings + 1 STP of 40 cmd capacity for KDMC Non-Residential building)
	Location & area of the STP:	Location : Below ground level, Area : 375 sq. m. for Residential Buildings and 50 sq. m. for KDMC Non-Residential Building
	Budgetary allocation (Capital cost):	Rs. 71.25 Lakhs
	Budgetary allocation (O & M cost):	Rs. 7.2 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	All excavated earth of shall be used for backfilling on site.
	Disposal of the construction waste debris:	Debris generated during construction phase will be collected at one place and will be disposed off to KDMC approved land-filling sites.
Waste generation in the operation Phase:	Dry waste:	800 kg/day
	Wet waste:	1100 kg/day
	Hazardous waste:	Waste / Spent Oil from DG Set & Transformers
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	50 kg/day
	Others if any:	Not Applicable
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Mode of Disposal of waste:	Dry waste:	Segregation and sale of recyclables, inerts to approved landfill site.
	Wet waste:	Organic Waste Composter (OWC)
	Hazardous waste:	Used oil from DG sets to be sold to authorized oil waste recycler.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be mixed with wet waste after proper drying for treatment in OWC.
	Others if any:	Not Applicable
Area requirement:	Location(s):	Ground level
	Area for the storage of waste & other material:	800 sq. ft.
	Area for machinery:	120 sq. ft. for Residential buildings and 30 sq. ft. for KDMC Non-Residential buildings
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 16 Lakhs for Residential buildings and Rs. 5.5 Lakhs for KDMC Non-Residential buildings
	O & M cost:	Rs. 8 Lakhs/annum for Residential buildings and Rs. 3 Lakhs for KDMC Non-Residential buildings

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	Used / Spent Oil	5.1	KL/annum	Nil	As & when generated	As & when generated	To be sold to authorized oil waste recyclers


39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set (2 Nos. Of capacity 630 kVA each for Residential Buildings and 1 No. of 315 kVA for KDMC Non-Residential Building)	HSD	3	6	0.20	518 deg.C



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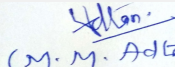

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40.Details of Fuel to be used				
Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	As per requirement	As per requirement
41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		
43.Green Belt Development	Total RG area :	For residential buildings : 31,858 sq. m. and for KDMC Non-Residential building : 7,972 sq. m.		
	No of trees to be cut :	301 nos. of trees will be affected		
	Number of trees to be planted :	850		
	List of proposed native trees :	Azadirachta indica, Barringtonia racemosa, Dalbergia sisoo, Lagerstroemia speciosa, Millingtonia hortensis, Minusops elengii, Polyalthia longifolia, Spathodea campanulata		
	Timeline for completion of plantation :	4 years from commencement of construction		
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	As per landscape plan	Evergreen, quick growing
2	Barringtonia racemosa	Nevar	As per landscape plan	Evergreen, quick growing
3	Dalbergia sisoo	Shisav	As per landscape plan	Evergreen, quick growing
4	Lagerstroemia speciosa	Queen Crape Myrtle	As per landscape plan	Evergreen, quick growing
5	Millingtonia hortensis	Indian Corck	As per landscape plan	Evergreen, quick growing
6	Minusops elengii	Bakuli	As per landscape plan	Evergreen, quick growing
7	Polyalthia longifolia	Ashok	As per landscape plan	Evergreen, quick growing
8	Spathodea campanulata	Indian Tulip Tree	As per landscape plan	Evergreen, quick 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	As per landscape plan	As per landscape plan	As per landscape plan	
47.Energy				


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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	190 kVA
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	For Residential buildings : 4,621.70 kW and For KDMC Non-Residential building : 1015.07 kW
	During Operation phase (Demand load):	For Residential buildings : 2,288.88 kW and For KDMC Non-Residential building : 576.97 kW
	Transformer:	Dry type transformer : 3 nos. of capacity 1000 kVA for Residential buildings and 1 No. of capacity 630 kVA for KDMC Non-Residential building
	DG set as Power back-up during operation phase:	2 Nos. of DG sets of capacity 630 kVA each for Residential buildings and 1 No. of DG set of capacity 315 kVA for KDMC Non-Residential building will be installed as emergency power back-up.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	66 kV Railway Feeder Line. Minimum distance of 10 m has been maintained between the habitable structures and the HT line.

48. Energy saving by non-conventional method:

- Use of solar energy for common area lighting and landscape lighting
- Use of energy efficient pumps and motors
- Use of transformers with load and no load losses as compliant with ECBC
- Use of LED lighting fixtures for internal common areas, parking, landscape and street lighting
- Use of timer-based automatic on-off controls for common area lighting
- Energy conservation measures based on ECBC

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall Energy Saving	For Residential buildings : 24.03% and For KDMC Non-Residential building : 21.79%

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water	Not applicable	STP of total capacity 490 cmd (1 STP of 450 cmd for Residential Complex + 1 STP of 40 cmd for KDMC Non-Residential Building)
Municipal solid waste	Not applicable	Organic Waste Composter (OWC) for on-site treatment of wet waste

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 110 Lakhs for solar hot water system and solar street lighting
	O & M cost:	Rs. 10 Lakhs for solar hot water system and solar street lighting

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
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1	Provision of sanitation facilities for labours	Provision of clean toilets, potable drinking water	3
2	Provision of health and safety facilities for labours	Medical tests, training in safety	3
3	Arrangements for first aid	First aid kit	0.75
4	Monitoring of environmental parameters	Monitoring of air, noise and water quality	2.80

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant (STP)	Total capacity of 490 cmd	71.25	7.2
2	Solid waste management	OWC	21.5	11
3	Rainwater harvesting	RWH tanks & recharge pits	179.5	12.95
4	Energy saving features (including solar energy)	Solar hot water system and solar street lighting	110	10
5	Firefighting measures	Firefighting system (alarm, extinguisher etc.)	1700	17

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

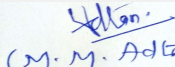
53.Traffic Management

Nos. of the junction to the main road & design of confluence:	The proposed project site is along Kalyan-Shahad Road and accessible from the same.
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Parking details:	Number and area of basement:	0
	Number and area of podia:	Podium (Ground + 6 Parking floors + Stilt) with built-up area of 75,663.29 sq. m.
	Total Parking area:	78,000 sq. m. including parking in podium area + open car parking
	Area per car:	13.75 sq. m. for 4-Wheelers and 3 sq. m. for 2-Wheelers
	Area per car:	13.75 sq. m. for 4-Wheelers and 3 sq. m. for 2-Wheelers
	Number of 2-Wheelers as approved by competent authority:	2954
	Number of 4-Wheelers as approved by competent authority:	1291
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	9 m
CRZ/ RRZ clearance obtain, if any:	Out of the total site area, area admeasuring 33,335 sq. m. is situated in CRZ-III. Out of this, 19,930 sq. m. area is under 'Transport Nagar' reservation. Out of the total CRZ-III affected area under 'Transport Nagar' reservation, area admeasuring 7,972 sq. m. will be handed over to KDMC. No construction / utilization of FSI is proposed on the CRZ-III affected part of the site under 'Transport Nagar' reservation. The developer's plot affected by CRZ-III would be considered for landscaping / gree	
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Waldhuni River (tributary of Ulhas River) - Adjoining the site from South-West to North-West	
Category as per schedule of EIA Notification sheet	8(b) Category B	
Court cases pending if any	No. Not Applicable	
Other Relevant Informations	No	
Have you previously submitted Application online on MOEF Website.	No	
Date of online submission	-	

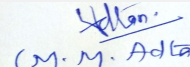
TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Subject:	Proposed residential and commercial development on plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane by M/s. Birla Estates (A Division of Century Textiles and Industries Limited)	Proposed residential and commercial development on plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane by M/s. Birla Estates (A Division of Century Textiles and Industries Limited)



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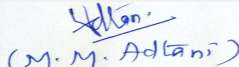

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Name of Project	Proposed residential and commercial development on plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane by M/s. Birla Estates (A Division of Century Textiles and Industries Limited)	Proposed residential and commercial development on plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane by M/s. Birla Estates (A Division of Century Textiles and Industries Limited)
Type of institution	Private	Private
Name of Project Proponent	Birla Estates (A Division of Century Textiles and Industries Limited)	Birla Estates (A Division of Century Textiles and Industries Limited)
Name of Consultant	Aditya Environmental Services Pvt. Ltd.	Aditya Environmental Services Pvt. Ltd.
Type of project	Residential and Commercial	Residential and Commercial
New project/expansion in existing project/modernization/diversification in existing project	New Project	New Project
If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable	Not applicable
Location of the project	Plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane	Plot bearing CS No. 1653, 1550 B & D, S. No. 17, 18 and 218, Village Shahad, Taluka Kalyan, District Thane
Taluka	Kalyan	Kalyan
Village	Shahad	Shahad
Correspondence Name	Mr. Sachin Sinnarkar	Mr. Sachin Sinnarkar
Room Number	-	-
Floor	Level 8	Level 8
Building Name	Birla Aurora	Birla Aurora
Road/Street Name	Dr. Annie Besant Road	Dr. Annie Besant Road
Locality	Worli	Worli
City	Mumbai	Mumbai
Area of the project	Kalyan Dombivali Municipal Corporation (KDMC)	Kalyan Dombivali Municipal Corporation (KDMC)
IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Layout Approval No. KDMC TP 1293 dated 31st May 2018, Approved Built-up Area: 1,54,168.00 sq. m	IOD/IOA/Concession/Plan Approval Number: Layout Approval No. KDMC TP 1293 dated 31st May 2018; Approved Built-up Area: 1,54,168.00 sq. m
Note on the initiated work (If applicable)	Not applicable	Not applicable
LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Layout Approval No. KDMC TP 1293 dated 31st May 2018	Layout Approval No. KDMC TP 1293 dated 31st May 2018
Total Plot Area (sq. m.)	85,220 sq. m	85,220 sq. m
Deductions	Area not in possession : 2,095 sq. m, Area under 30 m wide road : 4,763 sq. m	Area not in possession : 2,095 sq. m, Area under 30 m wide road : 4,763 sq. m
Net Plot area	78,362 sq. m	78,362 sq. m
Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): For owner : 45,955.79 sq. m. and for KDMC : 6000 sq. m, Non FSI area (sq. m.): 1,02,212.21sq. m, Total BUA area (sq. m.): 1,54,168.00 sq. m	FSI area (sq. m.): For owner : 45,980.33 sq. m. and for KDMC : 6000 sq. m, Non FSI area (sq. m.): 1,02,187. 67 sq. m, Total BUA area (sq. m.): 1,54,168.00 sq. m
Total ground coverage (m2)	17,140 sq. m	17,140 sq. m
Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22%	22%
Estimated cost of the project	Rs. 387 Crores	Rs. 387 Crores



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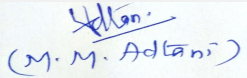

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Number of buildings & its configuration	Residential Tower-A:Stilt + 5 Parking Podiums + 1 Landscape Podium + 23 Residential Floors, Residential Tower-B : Part Stilt & Part Ground Floor + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 23 Residential Floors , Residential Tower-C: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 5 Residential Floors , Residential Tower-D: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 5 Residential Floors , Residential Tower-E: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 5 Residential Floors, Residential Tower-F: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Floors + 1 Landscape Podium + 23 Residential Floors , Residential Tower-G: Stilt + 5 Parking Podiums + 1 Landscape Podium + 23 Residential Floors, Podium area: Ground + 6 Parking Floors + Stilt, Clubhouse: Ground + 0 Floors , KDMC Non-Residential Building: Ground + 3 Floors and Ground + 0 Floors	Residential Tower-A:Stilt + 5 Parking Poiums + 1 Landscape Podium + 23 Residential Floors, Residential Tower-B: Part Stilt & Part Ground Floor + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 23 Residential Floors, Residential Tower-C: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 5 Residential Floors, Residential Tower-D: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 5 Residential Floors, Residential Tower-E: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Podiums + 1 Landscape Podium + 5 Residential Floors , Residential Tower-F: Stilt + 1 Parking Podium + 4 Part Residential & Part Parking Floors + 1 Landscape Podium + 23 Residential Floors, Residential Tower-G: Stilt + 5 Parking Podiums + 1 Landscape Podium + 23 Residential Floors, Podium Area: Ground + 5 Parking Floors + Stilt, Clubhouse: Ground + 0 Floors, KDMC Non-Residential Building: Ground + 3 Floors and Ground + 0 Floors
Number of tenants and shops	Number of tenements : 682, Number of shops : 1, KDMC Non-Residential Building of built-up area 6,000 sq. m.	Number of tenements : 682, Number of shops : 1, KDMC Non-Residential Building of built-up area 6,000 sq. m
Number of expected residents / users	Total : 4195 (including occupants of residential buildings : 3268 + clubhouse : 327 + commercial building : 600 + visitors : 387)	Total : 4290 (including occupants of residential buildings : 3410 + clubhouse : 00 (As Club house is part of Residential) + commercial building : 800 + visitors : 80
Tenant density per hectare	300/Hectare	300/Hectare
Height of the building(s)	6.65 m - 89.4 m	6.65 m - 89.4 m
Right of way (Width of the road from the nearest fire station to the proposed building(s))	Public access: 30 m wide DP road, Right of way: 18 m wide road, Internal roads: 9 m wide roads	Public access : 30 m wide DP road Right of way : 18 m wide road Internal roads : 9 m
Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	4.738 m (internal turning radius on podium)	4.738 m (internal turning radius on podium)
Existing structure (s) if any	Not applicable	Not applicable
Details of the demolition with disposal (If applicable)	Not applicable	Not applicable
Production Details	Not applicable	Not applicable
Total Water Requirement	Source of water: Kalyan Dombivali Municipal Corporation (KDMC)	Source of water: Kalyan Dombivali Municipal Corporation (KDMC)
Fresh water (CMD)	327.3	327cmd
Recycled water - Flushing (CMD) :	170.25	171 cmd
Recycled water - Gardening (CMD)	165.376	323 cmd
Swimming pool make up (Cum)	3	3 cmd
Total Water Requirement (CMD)	665.926	824 cmd
Fire fighting - Underground water tank (CMD)	500 m3/day for residential buildings and 100 m3/day for KDMC nonresidential building	700 cmd for Residential buildings 100 cmd for KDMC Non-Residential building
Fire fighting - Overhead water tank (CMD) :	30 m3/day in each wing of residential buildings and 20 m3/day for KDMC non-residential building	30 cmd in each wing of Residential buildings 20 cmd for KDMC Non-Residential building
Excess treated water	105.95	0 cmd
Source of water	Kalyan Dombivali Municipal Corporation (KDMC)	Kalyan Dombivali Municipal Corporation (KDMC)
Fresh water (CMD)	327.3	327 cmd
Recycled water - Flushing (CMD)	170.25	171 cmd
Recycled water - Gardening (CMD)	0	0 cmd



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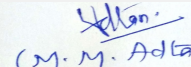

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Swimming pool make up (Cum) :	3	3 cmd
Total Water Requirement (CMD) :	500.55	501 cmd
Fire fighting - Underground water tank (CMD) :	500 m3/day for residential buildings and 100 m3/day for KDMC nonresidential building	700 cmd for Residential buildings 100 cmd for KDMC Non-Residential building
Fire fighting - Overhead water tank (CMD) :	30 m3/day in each wing of residential buildings and 20 m3/day for KDMC non-residential building	30 cmd in each wing of Residential buildings 20 cmd for KDMC Non-Residential building
Excess treated water	30 m3/day in each wing of residential buildings and 20 m3/day for KDMC non-residential building	258 cmd
Details of Swimming pool (If any)	Swimming pool size is proposed to be 25 m X 10 m X 1.2 m. Fresh water requirement for swimming pool will be sufficed from tanker water supply.	Swimming pool size is proposed to be 25 m X 10 m X 1.2 m. Fresh water requirement for swimming pool will be sufficed from tanker water supply.
Details of Total water consumed	NA	NA
Level of the Ground water table:	Below 6 m	Below 6 m
Rain Water Harvesting (RWH) Size and no of RWH tank(s) and Quantity	1 No. of size 4 m X 3.5 m X 4 m deep for Building-A & B, 1 No. of size 5 m X 5 m X 4 m deep for Building-C, D & E, 1 No. of size 3.5 m X 3.5 m X 4 m deep for Building-F & G, 1 No. each of size 3 m X 3 m X 4 m deep for KDMC Non-Residential Building and Clubhouse, 1 No. of size 3 m X 2.5 m X 3 m	Building-A & B: 1 No. of size 4 m X 3.5 m X 4 m deep Building-C, D & E : 1 No. of size 5 m X 5 m X 4 m deep Building-F & G: 1 No. of size 3.5 m X 3.5 m X 4 m deep KDMC Commercial Building : 1 No. of size 5 m X 4 m X 4 m deep KDMC Auto Repair Shed : 1 No. of size 3.5 m X 3.5 m X 4 m deep Clubhouse: 1 No. of size 3 m X 3 m X 4 m deep
Location of the RWH tank(s):	Below ground level	Below ground level
Quantity of recharge pits:	31 Nos. for residential buildings and 6 Nos. for KDMC Non-Residential building	Residential buildings: 17 Nos. KDMC Non-Residential building: 4 Nos.
Size of recharge pits:	31 Nos. for residential buildings and 6 Nos. for KDMC Non-Residential building	All recharge pits of size 3 m X 3 m X 4 m deep
Budgetary allocation (Capital cost) :	Rs. 3,50,000 per pit	Rs. 112 lacs
Budgetary allocation (O & M cost) :	Rs. 35,000 per pit	Rs. 2.24 lacs
Details of UGT tanks if any :	1 No. of size 4 m X 3.5 m X 4 m deep for Building-A & B 1 No. of size 5 m X 5 m X 4 m deep for Building-C, D & E 1 No. of size 3.5 m X 3.5 m X 4 m deep for Building-F & G 1 No. each of size 3 m X 3 m X 4 m deep for KDMC Non-Residential Building and Clubhouse	Building-A & B: 1 No. of size 4 m X 3.5 m X 4 m deep Building-C, D & E : 1 No. of size 5 m X 5 m X 4 m deep Building-F & G: 1 No. of size 3.5 m X 3.5 m X 4 m deep KDMC Commercial Building : 1 No. of size 5 m X 4 m X 4 m deep KDMC Auto Repair Shed : 1 No. of size 3.5 m X 3.5 m X 4 m deep Clubhouse: 1 No. of size 3 m X 3 m X 4 m deep
Storm water drainage Natural water drainage pattern:	Natural drainage pattern will be maintained.	Natural drainage pattern will be maintained.
Quantity of storm water:	Will be designed as per maximum rainfall	Will be designed as per maximum rainfall
Size of SWD:	Storm water drain channels of following sizes will be provided : 750 mm X 1140 mm deep, 600 mm X 1145 mm deep, 600 mm X 1280 mm deep, 450 mm X 765 mm deep, 450 mm X 650 mm deep, 600 mm X 1330 mm deep, 600 mm X 1270 mm deep	Storm water drain channels of following sizes will be provided : 1. 750 mm X 960 mm deep, 2. 600 mm X 1060 mm deep, 3. 450 mm X 960 mm deep, 4. 450 mm X 770 mm deep, 5. 600 mm X 910 mm deep,
Sewage and Waste water, Sewage generation in KLD	464.82	464 KLD
STP technology:	MBBR	MBBR
Capacity of STP (CMD):	490 cmd (1 STP of 450 cmd capacity for Residential buildings + 1 STP of 40 cmd capacity for KDMC Non-Residential building)	485 cmd (1 STP of 445 cmd capacity for Residential buildings + 1 STP of 40 cmd capacity for KDMC Non-Residential building)
Location & area of the STP:	Location : Below ground level, Area : 375 sq. m. for Residential Buildings and 50 sq. m. for KDMC Non-Residential Building	Location : Below ground level, Area : 375 sq. m. for Residential Buildings and 50 sq. m. for KDMC Non-Residential Building
Budgetary allocation (Capital cost):	Rs. 71.25 Lakhs	Rs. 125 Lacs
Budgetary allocation (O & M cost):	Rs. 71.25 Lakhs	Rs. 6.50 Lacs



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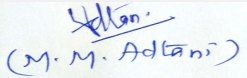

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Shri M.M. Adtani (Chairman SEAC-II)

Solid waste Management, Waste generation in the Pre Construction and Construction phase: Waste generation:	All excavated earth of shall be used for backfilling on site.	All excavated earth of shall be used for backfilling on site.
Disposal of the construction waste debris:	Debris generated during construction phase will be collected at one place and will be disposed off to KDMC approved land-filling sites.	Debris generated during construction phase will be collected at one place and will be disposed off to KDMC approved land-filling sites.
Waste generation in the operation Phase Dry waste:	800 kg/day	1030kg/day for Residential + 106 kg/day for KDMC - Total : 1136 kg/day
Wet waste:	1100 kg/day	687 kg/day for Residential + 70 kg/day for KDMC- Total : 757 kg/day
Hazardous waste:	Waste / Spent Oil from DG Set & Transformers	Waste / Spent Oil from DG Set & Transformers
Biomedical waste (If applicable):	Not Applicable	0 kg/day
STP Sludge (Dry sludge):	50 kg/day	35 kg/day
Others if any:	Not Applicable	E Waste : 2145 kg/yr for Residential + 880 kg/yr for KDMC
Mode of Disposal of waste: Dry waste	Segregation and sale of recyclables, inerts to approved landfill site	Segregation and sale of recyclables, inerts to approved landfill site
Wet waste	Organic Waste Composter (OWC)	Organic Waste Composter (OWC)
Hazardous waste:	Used oil from DG sets to be sold to authorized oil waste recycler	Used oil from DG sets to be sold to authorized oil waste recycler
Biomedical waste (If applicable):	Not applicable	Not applicable
STP Sludge (Dry sludge):	To be mixed with wet waste after proper drying for treatment in OWC	To be mixed with wet waste after proper drying for treatment in OWC
Others if any:	Not applicable	Not applicable
Area requirement: Location(s):	Ground level	Ground level
Area for the storage of waste & other material:	800 sq. ft.	800 sq. ft.
Area for machinery	120 sq. ft. for Residential buildings 30 sq. ft. for KDMC Non-Residential buildings	120 sq. ft. for Residential buildings 30 sq. ft. for KDMC Non-Residential buildings
Budgetary allocation (Capital cost and O&M cost):	Rs. 16 Lakhs for Residential buildings and Rs. 5.5 Lakhs for KDMC Non- Residential buildings	Capital cost: Rs. 26 Lakhs , O & M cost: Rs. 1.3 Lakhs/annum
Effluent Characteristics	Not applicable	Not applicable
Amount of effluent generation (CMD):	Not applicable	Not applicable
Capacity of the ETP:	Not applicable	Not applicable
Amount of treated effluent recycled :	Not applicable	Not applicable
Amount of water send to the CETP:	Not applicable	Not applicable
Membership of CETP (if require):	Not applicable	Not applicable
Note on ETP technology to be used	Not applicable	Not applicable
Disposal of the ETP sludge	Not applicable	Not applicable
Hazardous Waste Details	Used / spent oil: To be sold to authorized oil waste recyclers	Used / spent oil: To be sold to authorized oil waste recyclers
Stacks emission Details	DG Set (2 Nos. Of capacity 630 kVA each for Residential Buildings and 1 No. of 315 kVA for KDMC Non-Residential Building)	DG Set (2 Nos. Of capacity 630 kVA each for Residential Buildings and 1 No. of 315 kVA for KDMC Non-Residential Building)
Details of Fuel to be used	HSD	HSD
Green Belt Development	For residential buildings : 31,858 sq. m. and for KDMC Non-Residential building : 7,972 sq. m., No of trees to be cut: 301 nos. of trees will be affected, 301 nos. of trees will be affected: 850, List of proposed native trees :Azadirachta indica, Barringtonia racemosa, Dalbergia sisoo, Lagerstroemia speciosa, Millingtonia hortensis, Minusops elengii, Polyalthia longifolia, Spathodea campanulata	Total RG area : For residential buildings : 31,858 sq. m. and for KDMC Non-Residential building : 7,972 sq. m, No of trees to be cut.: 135 nos., Number of trees to be planted : 675 nos., List of proposed native trees : Azadirachta indica, Barringtonia racemosa, Dalbergia sisoo, Lagerstroemia speciosa, Millingtonia hortensis, Minusops elengii, Polyalthia longifolia, Spathodea campanulata



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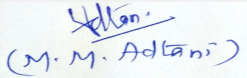

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Timeline for completion of plantation :	4 years from commencement of construction	4 years from commencement of construction
Number and list of trees species to be planted in the ground	attached as annexure	attached as annexure
Total quantity of plants on ground	1799 nos.	1799 nos.
Number and list of shrubs and bushes species to be planted in the podium RG	As per landscape plan	As per landscape plan
Source of power supply	MSEDCL	MSEDCL
During Construction Phase: (Demand Load)	190 kVA	190 kVA
Power requirement DG set as Power back-up during construction phase	Not applicable	Not applicable
During Operation phase (Connected load):	For Residential buildings : 4,621.70 kW and For KDMC Non-Residential building : 1015.07 kW	For Residential buildings : 4,741 kW For KDMC Non-Residential building : 1015 kW
During Operation phase (Demand load):	For Residential buildings : 2,288.88 kW and For KDMC Non-Residential building : 576.97 kW	For Residential buildings : 2,353 kW For KDMC Non-Residential building : 576 kW
Transformer:	Dry type transformer : 3 nos. of capacity 1000 kVA for Residential buildings and 1 No. of capacity 630 kVA for KDMC Non-Residential building	Dry type transformer : 3 nos. of capacity 1000 kVA for Residential buildings and 1 No. of capacity 1000 kVA for KDMC Non-Residential building
DG set as Power back-up during operation phase:	2 Nos. of DG sets of capacity 630 kVA each for Residential buildings and 1 No. of DG set of capacity 315 kVA for KDMC Non-Residential building will be installed as emergency power back-up.	DG set as Power back-up during operation phase:
Fuel used:	HSD	HSD
Energy saving by non-conventional method:	Use of solar energy for common area lighting and landscape lighting - Use of energy efficient pumps and motors - Use of transformers with load and no load losses as compliant with ECBC - Use of LED lighting fixtures for internal common areas, parking, landscape and street lighting - Use of timer-based automatic on-off controls for common area lighting - Energy conservation measures based on ECBC	Energy savings measures: - Use of Solar energy for street & landscape lighting - Use of energy efficient pumps and motors - Use of transformers with load and no load losses in compliance with ECBC - Use of LED lighting fixtures for internal common areas, parking, landscape and street lighting - Use of timer-based/sensor based on-off controls for common area lighting - Solar hot water (for one toilet of each apartment)
Detail calculations & % of saving:	For Residential buildings : 24.03% and For KDMC Non-Residential building : 21.79%	19%
Details of pollution control Systems Details of pollution control Systems	STP of total capacity 490 cmd (1 STP of 450 cmd for Residential Complex + 1 STP of 40 cmd for KDMC Non-Residential Building),	STP of total capacity 485 cmd (1 STP of 445cmd for Residential Complex + 1 STP of 40 cmd for KDMC Non-Residential Building)
Municipal solid waste	Organic Waste Composter (OWC) for on-site treatment of wet waste	Organic Waste Composter (OWC) for on-site treatment of wet waste
Organic Waste Composter (OWC) for on-site treatment of wet waste Capital cost:	Rs. 21 Lacs	Rs. 151 Lacs
O & M cost:	Rs.11 Lacs	Rs. 7.8 Lacs
Environmental Management plan Budgetary Allocation Waste management	3 LACS	0.20 LACS
Toilets for labour + drinking water + first aid arrangement	3.75 LACS	0.70 LACS
Operation Phase (with Break-up) :Sewage Treatment Plant (STP)	71.25	125.00 LACS
Solid waste management	21.5	26.00 LACS
Rainwater harvesting	179.5	112.00 LACS
Energy saving features (including solar energy)	110	110.00 LACS


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Environmental Monitoring Cell	-	7.35 LACS
Green belt development	-	Green belt development
Fire Fighting	1700	1242.00
Storage of chemicals (inflammable/explosive/hazardous/toxic substances)	Not Applicable	Not Applicable
Any Other Information	Not Applicable	Not Applicable
Traffic Management Nos. of the junction to the main road & design of confluence:	The proposed project site is along Kalyan-Shahad Road and accessible from the same.	The proposed project site is along Kalyan-Shahad Road and accessible from the same.
Parking details: Number and area of basement:	0	0
Number and area of podia	Podium (Ground + 6 Parking floors + Stilt) with built-up area of 75,663.29 sq. m.	Podium (Ground + 5 Parking floors + Stilt) with built-up area of 62,551.87 sq. m.
Total Parking area:	78,000 sq. m. including parking in podium area + open car parking	65,000 sq. m. including parking in podium area + open car parking
Area per car:	13.75 sq. m. for 4-Wheelers and 3 sq. m. for 2-Wheelers	3 sq. m. for 2-Wheelers
Area per car:	13.75 sq. m. for 4-Wheelers and 3 sq. m. for 2-Wheelers	13.75 sq. m. for 4-Wheelers
Number of 2-Wheelers as approved by competent authority:	2954	2954
Number of 4-Wheelers as approved by competent authority:	1291	1291
Public Transport:	Not applicable	Not applicable
Width of all Internal roads (m):	9 m	9 m
CRZ/ RRZ clearance obtain, if any:	Out of the total site area, area admeasuring 33,335 sq. m. is situated in CRZ-III. Out of this, 19,930 sq. m. area is under 'Transport Nagar' reservation. Out of the total CRZ-III affected area under 'Transport Nagar' reservation, area admeasuring 7,972 sq. m. will be handed over to KDMC. No construction / utilization of FSI is proposed on the CRZ-III affected part of the site under 'Transport Nagar' reservation. The developer's plot affected by CRZ-III would be considered for landscaping / greenbelt development.	Out of the total site area, area admeasuring 33,335 sq. m. is situated in CRZ-III. Out of this, 19,930 sq. m. area is under 'Transport Nagar' reservation. Out of the total CRZ-III affected area under 'Transport Nagar' reservation, area admeasuring 7,972 sq. m. will be handed over to KDMC. No construction / utilization of FSI is proposed on the CRZ-III affected part of the site under 'Transport Nagar' reservation. The developer's plot affected by CRZ-III would be considered for landscaping / greenbelt development.
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Waldhuni River (tributary of Ulhas River) - Adjoining the site from South-West to North-West	Waldhuni River (tributary of Ulhas River) - Adjoining the site from South-West to North-West
Category as per schedule of EIA Notification sheet	8(b) Category B	8(b) Category B
Court cases pending if any	Not applicable	Not applicable
Other Relevant Informations	No	No
Have you previously submitted Application online on MOEF Website	No	No
Date of online submission	-	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summarised in brief information of Project as below.

Brief information of the project by SEAC

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Representative of PP was present during the meeting along with environmental consultant M/S Aditya Environmental Services Pvt. Ltd.

PP informed that, the project under consideration is *Residential development cum Commercial development Project*. PP further informed that, the plot under reference is partly under 'Transport Nagar' reservation and as per the Government Notification dated 02.05.2016, 40% land along with construction to be handed over to KDMC for Transport Nagar Reservation, balance 60% land to be retained by owner. PP informed that, layout permission has been granted accordingly vide letter dated 31.05.2018.

PP further informed that, as per the Coastal Zone Management plan vide Letter No. 1205/720/UD12 dated 17th June 2006, part of the plot is affected by CRZ-III. PP also stated that, out of the total land area; 22,194 sq.mt is to be handed over to KDMC from which 14,222 sq. mt is a non CRZ area & 7,972 sq. mt. is CRZ-III area. PP stated that, on KDMC's plot no construction or development is proposed on the part of plot which is affected by CRZ-III while in the developer's plot affected by CRZ-III would be developed as landscape or greenbelt area. PP further stated that, the ToR for the said project was received in 71st SEAC II meeting held on 1st October 2018.

PP stated that, the total plot area of the project which is under consideration is 85,220 .Sq.mt. having total construction area 1,54,168 Sq. mt. (45,955.79 sq. mt. and for KDMC : 6,000 sq. mt.+ NON FSI- 1,02,212.21 .Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height of the building (Mtrs)
Residential Tower-A	Ground + 5 Parking Floors + Stilt + 23 residential floors	89.4
Residential Tower-B	Ground + 1 Parking Floor + 28 residential floors (with 1 shop at Stilt level)	89.4
Residential Tower-C	Ground + 1 Parking Floors + 10 residential floors	36.3
Residential Tower-D	Ground + 1 Parking Floors + 10 residential floors	36.3
Residential Tower-E	Ground + 1 Parking Floors + 10 residential floors	36.3
Residential Tower-F	Ground + 1 Parking Floor + 28 residential floors	89.4
Residential Tower-G	Ground + 5 Parking Floors + Stilt + 23 residential floors	89.4
Podium Area	Ground + 6 Parking Floors + Stilt	18.6
Clubhouse	Ground + 0 Floors	6.65
KDMC Non-Residential Building	Ground + 3 Floors and Ground + 0Floors	18.2

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. Committee noted that the project is under 8a (B1) category of EIA Notification, 2006. Consolidated statements, form 1, 1A,EIA, presentation & plans submitted are taken on the record.

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DECISION OF SEAC

In view of above, the proposal is deferred and shall be considered only after the compliance of below observations.

Specific Conditions by SEAC:

- 1) Since the project site is adjacent to river Waldhuni, to ensure High Water Level, PP to submit NOC indicating the high flood line or red/blue line by Competent Authority duly marked by designated agency.
- 2) PP to ensure that the slope of ramp as per CFO NOC, preferably 1:12.
- 3) PP to submit the detail storm water drain calculations clearly stating that the capacity of drains is adequate. Also PP to submit the NoC from local planning authority for the same.
- 4) PP to submit all clearances/approval received including CRZ.
- 5) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area, as identified by Environment Department.
- 6) PP to submit the detail plan for Plantation programme along with list of trees to be planted.

FINAL RECOMMENDATION

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

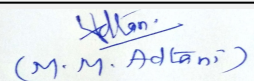
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85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019

Subject: Environment Clearance for Residential & Commercial Development at Pocket D and E, Sector 60, Nerul in Navi-Mumbai


Is a Violation Case: No

1.Name of Project	Residential & Commercial Development at Pocket D and E, Sector 60, Nerul in Navi-Mumbai
2.Type of institution	Private
3.Name of Project Proponent	Residential & Commercial Development at Pocket D and E, Sector 60, Nerul in Navi-Mumbai
4.Name of Consultant	Environmental Consultant- Building Environment (India) Pvt. Ltd. Dakshina Building, Hrushikesh Kolatkar (Director) Office No-401,4th Floor, Beside Raigad Bhavan Sakal Bhavan Rd, Sector 11 CBD Belapur, Navi Mumbai, Maharashtra 400 614. Architect - Dimensions Architects Pvt Ltd. Vijay Ramamurthy (director) Dimensions Architects Pvt Ltd. Dimensions Architects Pvt Ltd. Plot No. 99, Sector - 08, Near Sagar Vihar, Vashi, Navi Mumbai - 400 703 , MEP consultant Ramboll India Pvt Ltd. Sooraj Nair (
5.Type of project	Residential cum Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Pocket D and E, Sector 60, Nerul in Navi Mumbai
9.Taluka	Thane
10.Village	Karave
Correspondence Name:	M/s Mistry Construction Co.Pvt Ltd (project proponent)
Room Number:	337,Chandvarkar road, Matunga, Mumbai-19
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	Matunga
City:	Mumbai
11.Area of the project	within jurisdiction of CIDCO
12.IOD/IOA/Concession/Plan Approval Number	CIDCO has issued the LOI vide letter no. CIDCO/ BP/15516/TPO (NM) /2017/487 dated 30/08/2017 IOD/IOA/Concession/Plan Approval Number: CIDCO has issued the LOI vide letter no. CIDCO/ BP/15516/TPO (NM) /2017/487 dated 30/08/2017 Approved Built-up Area: 104679.77
13.Note on the initiated work (If applicable)	No work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CIDCO has issued the LOI vide letter no. CIDCO/ BP/15516/TPO (NM) /2017/487 dated 30/08/2017
15.Total Plot Area (sq. m.)	27,000sqm
16.Deductions	nil
17.Net Plot area	27,000 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 39833.22 b) Non FSI area (sq. m.): 64846.55 c) Total BUA area (sq. m.): 104679.77
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Approved Non FSI area (sq. m.): Date of Approval:
19.Total ground coverage (m2)	21330 sqm


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20. Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)		79%		
21. Estimated cost of the project		3943714320		
22. Number of buildings & its configuration				
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Tower A - 4 Number	4	16	
2	Tower B - 2 Number	11	39	
3	Tower C - 3 Number	14	48	
23. Number of tenants and shops		Tenants 336 Shops : 15		
24. Number of expected residents / users		Residential 1680; Commercial :524		
25. Tenant density per hectare		125		
26. Height of the building(s)				
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))		20.0 M		
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		6 M inner & 9.0 M outer		
29. Existing structure (s) if any		No		
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	NA	NA	NA	NA
32. Total Water Requirement				

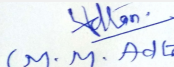
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Dry season:	Source of water	CIDCO / NMMC water supply								
	Fresh water (CMD):	164								
	Recycled water - Flushing (CMD):	88								
	Recycled water - Gardening (CMD):	45								
	Swimming pool make up (Cum):	5								
	Total Water Requirement (CMD) :	252								
	Fire fighting - Underground water tank(CMD):	Building 1& 2 Not required, Building 3&4 -75 KL & building 5 - 150 KL								
	Fire fighting - Overhead water tank(CMD):	Building 1& 2 - 250 KL, Building 3&4 -5 KL & building 5 - 10 KL								
	Excess treated water	92								
Wet season:	Source of water	CIDCO / NMMC water supply								
	Fresh water (CMD):	164								
	Recycled water - Flushing (CMD):	88								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	0								
	Total Water Requirement (CMD) :	252								
	Fire fighting - Underground water tank(CMD):	Building 1& 2 Not required, Building 3&4 -75 KL & building 5 - 150 KL								
	Fire fighting - Overhead water tank(CMD):	Building 1& 2 - 250 KL, Building 3&4 -5 KL & building 5 - 10 KL								
	Excess treated water	225								
Details of Swimming pool (If any)	17.5 M X 42 M									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	3.2 mts
	Size and no of RWH tank(s) and Quantity:	1 no. 220 cum;1 no 150 cum ; (220 cum -10M X 6.2M X 3.6M); (150 cum -10M X 4 M X 3.5M)
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NIL
	Size of recharge pits :	NIL
	Budgetary allocation (Capital cost) :	20 LAKHS
	Budgetary allocation (O & M cost) :	1 LAKH/YR
	Details of UGT tanks if any :	Potable water - Domestic: litres (1no.) - 164 KL with 1 Day Storage capacity Recycled Water - Flushing litres) (1 no.) - 88 KL with 1 day storage capacity

35.Storm water drainage	Natural water drainage pattern:	The arrangement for disposal of SW through and from the plot as per the remarks of SW department
	Quantity of storm water:	218 CUM at 100 mm/hr rainfall
	Size of SWD:	Drain Size Length 0.6 X Depth 0.3 (at Start) with 1:300 slope

Sewage and Waste water	Sewage generation in KLD:	223
	STP technology:	SBR
	Capacity of STP (CMD):	1 NO. 240 KLD
	Location & area of the STP:	under ground (Basement 1)
	Budgetary allocation (Capital cost):	25 lakhs
	Budgetary allocation (O & M cost):	6 lakhs/yr


36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	815 kg/day
	Disposal of the construction waste debris:	Construction debris like brick,blocks,PCC waste,concrete waste will be used for site filling,tiles,glass,metals waste will be sent to local recyclers/vendors.Pint cans will be sold to local vendors.
Waste generation in the operation Phase:	Dry waste:	302 kg/day
	Wet waste:	450 kg/day
	Hazardous waste:	177 kg / month from DG only
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	58.75 kg/day
	Others if any:	e-waste .05 T / Year


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Mode of Disposal of waste:	Dry waste:	Recyclables like plastic, paper, glass and metal will be handled over to local recyclers.
	Wet waste:	Composting through Organic Waste Composter /treated in Mobi Trash & used at site/as manure
	Hazardous waste:	Cannot be quantified at this stage as this is a residential project.
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	Used as manure within the premises for plants. Excess shall be sold /handover to outside parties or gardens.
	Others if any:	NIL
Area requirement:	Location(s):	GROUND
	Area for the storage of waste & other material:	waste segregation 60 sqm, OWC 20 sqm and e-waste storage 10 sqm
	Area for machinery:	10
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	55 LAKHS
	O & M cost:	11 LAKHS/YR

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 SINCE ITS RESIDENTIAL PROJECT			
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		SBR (residential project)			
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	HSD	4	Not applicable	0.3	400 deg cel

40. Details of Fuel to be used

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

41. Source of Fuel HSD from nearby petrol pump

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42.Mode of Transportation of fuel to site		through mobile van in container of 100 lit		
43.Green Belt Development	Total RG area :	Ground level -1727 sq.m;Podium level - 6164 sqm		
	No of trees to be cut :	Native 55 nos and Subabul (weed) 618		
	Number of trees to be planted :	550 Trees - (3 Trees per 1 tress cut and + 1 tree per 80 sqm		
	List of proposed native trees :	Attached list of native trees and shrubs to planted		
	Timeline for completion of plantation :	Throughout 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	ATTACHED	ATTACHED	ATTACHED	ATTACHED
2	ATTACHED	ATTACHED	ATTACHED	ATTACHED
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	ATTACHED	ATTACHED	ATTACHED	
47.Energy				
Power requirement:	Source of power supply :	Maharashtra State Electricity Distribution Co. Ltd (MSEDCL)		
	During Construction Phase: (Demand Load)	300KW		
	DG set as Power back-up during construction phase	1 No of 125 KVA		
	During Operation phase (Connected load):	5415 KW		
	During Operation phase (Demand load):	2200 KW		
	Transformer:	630 KVA x 7 No		
	DG set as Power back-up during operation phase:	500 kva (3no.s) ,140 kva x1 no , 400 kva x i no.		
	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 CFL & T5 fluorescent tube with electronic chocks.
- ? Use of Solar energy for street & landscape lightings & water heating purpose.
- ? 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	Solar hot water, LED lights for common area, VFD in lifts, external lights on solar.	25.38%

50.Details of pollution control Systems


Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Installation of STP ,Installation of RWH system,Sprinkling water twice/thrice a day in construction phase,For treatment of Bio degradable waste OWC model will be installed ,Segregation of wet and dry waste,

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	INR 30,000,00
	O & M cost:	INR 2.2 Lakhs

51.Environmental Management plan Budgetary Allocation

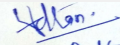
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Pollution	Water Sprinkling	0.6
2	Site Sanitation,Health Check up	Site Sanitation, Disinfection & Health Check Up	3.2
3	Environmental Monitoring	Environmental Monitoring of air,noise,soil and water	1.4
4	Green area development	Green area development	0.7
5	EM Cell	EM Cell	1
6	DMP equipments	Fire fighting equipments,Disaster Management Kit (First Aid Facility, Stretcher, A portable battery-powered radio, Flashlight and extra batteries, First aid kit and first aid manual, Safety shoes, helmets, Hand gloves, fire mask, fire blanket, Axe, Cutter) ,Well-equipped Control Room , CCTV ,2 way Public announcement system	9.5
7	Barricading	Screens along perimeter of site	8


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8	Personal Protective equipments	Personal Protective equipments against noise,dust ,accidents etc	0.5
9	Periodic maintenance of construction equipment	Periodic maintenance of construction equipment	0.5

b) Operation Phase (with Break-up):


Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Installation of STP	STP	28.5	6.2
2	RWH system	RWH system	23	1.5
3	Solid waste mgmt	Solid waste mgmt	12	4.5
4	Energy conservation	Solar Panels	125	15.8
5	Maintenance of green area	green area development	6.2	1.1
6	Maintenance of DMP equipments	Fire fighting equipments((Sprinkling System, Fire alarm, Portable fire extinguishers, Fire Tanks, Water lift pumps, Fire Hydrant Cabinets with hose reels, Fire Hydrants pumps, Fire Lifts, Fire alarm, fire Curtains)),Disaster Management Kit (First Aid Facility, Stretcher, A portable battery-powered radio, Flashlight and extra batteries, First aid kit and first aid manual, Safety shoes, helmets, Hand gloves, fire mask, fire blanket, Axe, Cutter) ,Well-equipped Control Room , CCTV ,2 way Public an	4.5	2.5
7	EM cell	EM cell	2.5	0.3

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

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

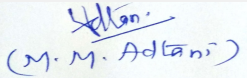
52.Any Other Information

No Information Available


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53. Traffic Management

	Nos. of the junction to the main road & design of confluence:	The access to the property is through service road of Palm beach road and 20.0 m wide DP road
Parking details:	Number and area of basement:	2 nos of 23350 sqm each
	Number and area of podia:	1 no 9122 sqm
	Total Parking area:	40425 sqm
	Area per car:	38.5 m2 including circulation (car bay 12.5 sqm)
	Area per car:	38.5 m2 including circulation (car bay 12.5 sqm)
	Number of 2-Wheelers as approved by competent authority:	10% area
	Number of 4-Wheelers as approved by competent authority:	1050
	Public Transport:	Navi Mumbai Municipal Transport (NMMT) bus service along palm beach road, Sub-urban railway (harbor line) - seawood Railway Station at a distance of 2 kms and CBD Belapur station - 3 Km, Proposed airport of Navi Mumbai is at a distance of 3.5 km and Mumbai airport is at a distance of 28 kms.
	Width of all Internal roads (m):	9.0 Meter
	CRZ/ RRZ clearance obtain, if any:	The Project Residential & Commercial Development at Pocket D and E, Sector 60, Nerul in Navi Mumbai is beyond CRZ area
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi national park & ESZ - 16 Km Thane creek flamingo sanctuary - 8 Km Karnala Bird sanctuary - 10 Km Matheran ESZ - 18 Km
	Category as per schedule of EIA Notification sheet	8 (a) Building Construction category
	Court cases pending if any	No court case is pending for pocket D and E.
	Other Relevant Informations	nil
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

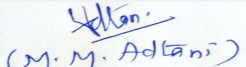
Summarised in brief information of Project as below.

Brief information of the project by SEAC


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Representative of PP was present during the meeting along with environmental consultant - Building Environment (India) Pvt. Ltd. PP informed that, the project under consideration is proposed Residential cum Commercial Project.

The total plot area of the project is having total construction area 27,000sq.mt having total construction area 104679.77 Sq. mt. (FSI - 39833.22 Sq mt.+ NON FSI- 64846.55 Sq mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Tower A - 4 Number	4	16
Tower B - 2 Number	11	39
Tower C - 3 Number	14	48

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. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

During discussion following points emerged:

In 66th Meeting of State Expert Appraisal SEAC-II held on 18-08-2018 it was decided to consider the case after final order of Hon'ble High Court in PIL 58/2018 and 218/2013.

Accordingly PP submitted the Hon'ble High Court Order dated 1 Nov 2018 in PIL 58/2018 and 218/2013. After carefully reading the said order and deliberating in detail on the issues, it is noted that the clarity on the nomenclature of the plots under consideration is utmost important as it was not matching with the notification issued by Urban Development Department. Considering this, PP has to submit letter about nomenclature of the plots & whether any development is restricted on these plots by Hon'ble High Court by the said order with respect to plots under consideration to Environment Department. Environment department may get it verified from Urban Development Department and from law & judiciary department to confirm that appraisal of proposed development would not amount to contempt of Hon. High Court order dated 1 Nov 2018. The PP to also clarify along with copy of wetland atlas and certificate of authority competent for dealing with wetland atlas

as to whether the plots referred to by Hon'ble	on which present project is proposed High Court in its order quoted above	also fall as wetland in the atlas
Mr. Surykant Nikam (Secretary SEAC-II)	SEAC Meeting No: 85 Meeting Date: January 18, 2019	Shri M.M.Advani (Chairman SEAC-II)

DECISION OF SEAC

In view of above, the proposal is deferred and shall be considered afresh only after the compliance of above observations.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

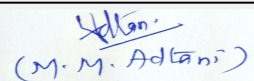
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Shri M.M. Adtani (Chairman
SEAC-II)

85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019


Subject: Environment Clearance for OASIS CITY

Is a Violation Case: Yes

1.Name of Project	Proposed Commercial development OASIS CITY ,P.B.MARG, LOWER PAREL,Mumbai
2.Type of institution	Private
3.Name of Project Proponent	KANTI GOWANI
4.Name of Consultant	BEIPL
5.Type of project	Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NO EC obtained earlier
8.Location of the project	465,P.B.MARG, LOWER PAREL
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	302,Tardeo Air Conditioned Market,Tardeo,Mumbai
Room Number:	nil
Floor:	3
Building Name:	na
Road/Street Name:	Tardeo Air Conditioned Market
Locality:	Mumbai
City:	Mumbai
11.Area of the project	MCGM
12.IOD/IOA/Concession/Plan Approval Number	EB/9182/GS/A
	IOD/IOA/Concession/Plan Approval Number: EB/9312/GS/AL
	Approved Built-up Area: 60137.60
13.Note on the initiated work (If applicable)	Covering Letter attached
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	46571.00 sq.m
16.Deductions	RG 1038.90 m2 MHADA 850 m2
17.Net Plot area	44682.10 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 70485
	b) Non FSI area (sq. m.): 65105
	c) Total BUA area (sq. m.): 135590
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 60137
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	20510
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	46%
21.Estimated cost of the project	4000000000

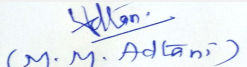
22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
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1	Building 32	3 Basement + Ground + 13 part	58.80	
2	Building A	3 Basement + Ground + 3	16.80	
3	Structure 18	Proposed 4th Floor	22.55	
4	Structure 14 & 17	Basement + Ground + 4 Part	20.70	
23.Number of tenants and shops		uNITS 120 no.s		
24.Number of expected residents / users		9649 commercial +floating		
25.Tenant density per hectare		NA		
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))		NA		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		NIL		
29.Existing structure (s) if any		Structures 5,6,7, 8, 9, 10, 14, 17, 18, 20, 39, 40, 41, 42, X and 28 are existing		
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):	145
	Recycled water - Flushing (CMD):	289
	Recycled water - Gardening (CMD):	13
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	447
	Fire fighting - Underground water tank(CMD):	As per Fire regulatory requirements
	Fire fighting - Overhead water tank(CMD):	As per Fire regulatory requirements
	Excess treated water	to be reused for flushing and green area development
Wet season:	Source of water	MCGM
	Fresh water (CMD):	145
	Recycled water - Flushing (CMD):	289
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	434
	Fire fighting - Underground water tank(CMD):	As per Fire regulatory requirements
	Fire fighting - Overhead water tank(CMD):	As per Fire regulatory requirements
	Excess treated water	to be reused for flushing
Details of Swimming pool (If any)	NA	

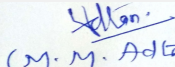
33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	-	145	145	-	10%	10%	-	413	413



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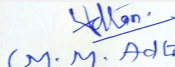

(M. M. Adtani)
Shri M.M.Adtani (Chairman SEAC-II)

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	as per geo tech investigation report
	Size and no of RWH tank(s) and Quantity:	Will be provided during SEAC ppt
	Location of the RWH tank(s):	Will be provided during SEAC ppt
	Quantity of recharge pits:	Will be provided during SEAC ppt
	Size of recharge pits :	Will be provided during SEAC ppt
	Budgetary allocation (Capital cost) :	Will be provided during SEAC ppt
	Budgetary allocation (O & M cost) :	Will be provided during SEAC ppt
	Details of UGT tanks if any :	Will be provided during SEAC ppt
35.Storm water drainage	Natural water drainage pattern:	as per natural draiange pattern
	Quantity of storm water:	Will be provided during SEAC ppt
	Size of SWD:	Will be provided during SEAC ppt
Sewage and Waste water	Sewage generation in KLD:	413
	STP technology:	MBBR
	Capacity of STP (CMD):	1,420
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Will be provided during SEAC ppt
	Budgetary allocation (O & M cost):	Will be provided during SEAC ppt
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	2.04TPD
	Disposal of the construction waste debris:	for levelling and filling
Waste generation in the operation Phase:	Dry waste:	1.06TPD
	Wet waste:	0.98TPD
	Hazardous waste:	FromDG set
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.1 TPD
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Local body
	Wet waste:	OWC
	Hazardous waste:	Through authorised agency
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.103 ,mANURE
	Others if any:	NA
Area requirement:	Location(s):	Ground
	Area for the storage of waste & other material:	100sq.m
	Area for machinery:	4 sq.m
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	15
	O & M cost:	3

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	As per MBBR inlet	As per MBBR inlet	As per MBBR inlet	As per MBBR outlet charecterestics	MPCB standards
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	HSD
42.Mode of Transportation of fuel to site	Not applicable

 Mr. Surykant Nikam (Secretary SEAC-II)	SEAC Meeting No: 85 Meeting Date: January 18, 2019	Page 55 of 105	 Shri M.M.Adtani (Chairman SEAC-II)
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43.Green Belt Development	Total RG area :	2503.33 sq.m
	No of trees to be cut :	NIL
	Number of trees to be planted :	23
	List of proposed native trees :	Will be provided during SEAC ppt
	Timeline for completion of plantation :	Will be provided during SEAC ppt

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	Will be provided during SEAC ppt	Will be provided during SEAC ppt	Will be provided during SEAC ppt	Will be provided during SEAC ppt

45.Total quantity of plants on ground

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

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

47.Energy


Power requirement:	Source of power supply :	MSEDCL/RELIANCE
	During Construction Phase: (Demand Load)	Will be provided during SEAC ppt
	DG set as Power back-up during construction phase	Will be provided during SEAC ppt
	During Operation phase (Connected load):	Will be provided during SEAC ppt
	During Operation phase (Demand load):	Will be provided during SEAC ppt
	Transformer:	Will be provided during SEAC ppt
	DG set as Power back-up during operation phase:	Will be provided during SEAC ppt
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Will be provided during SEAC ppt

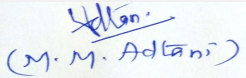
49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
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1	Will be provided during SEAC ppt	Will be provided during SEAC ppt					
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:	Will be provided during SEAC ppt					
	O & M cost:	Will be provided during SEAC ppt					
51.Environmental Management plan Budgetary Allocation							
a) Construction phase (with Break-up):							
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)				
1	Will be provided during SEAC ppt	Will be provided during SEAC ppt	Will be provided during SEAC ppt				
b) Operation Phase (with Break-up):							
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)			
1	Will be provided during SEAC ppt	Will be provided during SEAC ppt	Will be provided during SEAC ppt	Will be provided during SEAC ppt			
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
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:			Will be provided during SEAC ppt				

 Mr. Surykant Nikam (Secretary SEAC-II)	SEAC Meeting No: 85 Meeting Date: January 18, 2019	Page 57 of 105	 Shri M.M.Adtani (Chairman SEAC-II)
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Parking details:	Number and area of basement:	NIL
	Number and area of podia:	NIL
	Total Parking area:	60910.00 sq.m
	Area per car:	33sq.m
	Area per car:	33sq.m
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	1845.00 nos Parking Proposed as per DCR1991
	Public Transport:	NA
	Width of all Internal roads (m):	12M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Will be provided during SEAC ppt
	Category as per schedule of EIA Notification sheet	8B
	Court cases pending if any	None
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

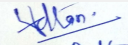
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	NA
Water Budget	Dry season: 3925 CMD,Wet season: 3925 CMD
Waste Water Treatment	Sewage generation in KLD: 3532 STP technology: RMBR (Rotating Media Bio Reactor) Capacity of STP (CMD): 10 STPs of Total Capacity 3785 KLD
Drainage pattern of the project	NA
Ground water parameters	Level of the Ground water table: 1.5 m


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Solid Waste Management	Dry waste: Dry garbage will be further segregated into recyclable and non-recyclable. Recyclable will be sent to recycling units and non-recyclable will be disposed off at VVCMC waste disposal sites Wet waste: Wet garbage will be treated on site and will be used as manure. Hazardous waste: NA
Air Quality & Noise Level issues	NA
Energy Management	Solar energy generated/saved 14 %
Traffic circulation system and risk assessment	27.Right of way (Width of the road from the nearest fire station to the proposed building(s)-- 12.00 m wide Yashwant Nagar Road 30.m Wide DP Road
Landscape Plan	NA
Disaster management system and risk assessment	NA
Socioeconomic impact assessment	NA
Environmental Management Plan	NA
Any other issues related to environmental sustainability	NA
Brief information of the project by SEAC	

SEAC-AGENDA-00000000199

Representative of PP Mr. Gowani was present during the meeting along with Environmental Consultant M/S Building Environment India Pvt.Ltd.

It is noted that the project proposal considered earlier in 81st meeting of SEAC-II, held on 10/12/2018 & deferred to comply with following observation-

1. PP to submit and upload all documentary evidence in support of his say, viz., Hon. High Court's order,
2. Architect's dated Certificate about retained mill structures, demolished structures, and new construction.
3. PP to also submit and upload copies of all approvals from competent planning authority, plinth CC, BCC, OC issued from time to time and copies of correspondence in this regard for construction done prior to 2004 and post 2004/2006.

During the meeting committee deliberated the reply submitted by the PP on the above observation. Committee took the cognizance of Hon. High court order regarding redevelopment & appraises the project.

PP submitted their application for prior Environment Clearance for total plot area of 46571.00Sq.mt, Total BUA of 1,35,590Sq.mt, and FSI area of 70485sq.m. It is proposed to buildings having maximum heights of 58 meters.

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. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

In view of above, the proposal is deferred and shall be considered in next meeting after the compliance of below observations.

Specific Conditions by SEAC:

- 1) PP to submit detail Calculation and Design for clear to & fro fire tender movement.
- 2) Committee noted that, the basement area is very large. PP to submit complete detail analysis & plan for adequate ventilation in basement.
- 3) PP to submit the section for basement & superimposing tree plantation plan.
- 4) PP to submit the detail storm water drain calculations which clearly stating that the capacity of drains is adequate.

FINAL RECOMMENDATION

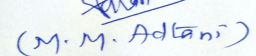
SEAC-II decided to defer the proposal. Kindly find SEAC decision above.



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Shri M.M.Adtani (Chairman
SEAC-II)


85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019

Subject: Environment Clearance for Redevelopment of Residential Buildings, by Orbit Ventures & Company


Is a Violation Case: No

1.Name of Project	Amendment in Environment Clearance for Redevelopment of Residential Buildings, by Orbit Ventures & Company
2.Type of institution	Private
3.Name of Project Proponent	Orbit Ventures & Company
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	CTS no. 155,162,165,166(pt) of village Sahar, JB Nagar, Andheri (E), Mumbai.
9.Taluka	Andheri
10.Village	Andheri
Correspondence Name:	Mr. Rajen Dhruv
Room Number:	-
Floor:	-
Building Name:	Sarkar Heritage
Road/Street Name:	Jairajbhoy Peerbhoy Khoja Sanitorium Complex, Kane & B.J.Road,
Locality:	Bandstand, Bandra (W),
City:	Mumbai - 400050.
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD For Bldg No. 5 CE/9475/WS/AK dtd. 22nd June 2016, IOD For Bldg No. 2 CE/9195/WS/AK dtd. 14th September 2015
	IOD/IOA/Concession/Plan Approval Number: CC for Bldg no. 5 CE/9475/WS/AK dtd. 22nd June 2016, Concession approved for Bldg No5 by MC on dt 06/03/2018 CC for Bldg no. 2 CE/9195/WS/AK dtd. 01st January 2016
	Approved Built-up Area: 28490.0
13.Note on the initiated work (If applicable)	As per Environment Clearance vide no. SEAC-2010/CR.517/TC.2 dated 3rd February 2011 FSI Area: 7073.94 Sq.m. Non FSI Area: 2718.55 Sq.m. Total Construction Area: 9792.49 Sq.m. Building No 3: St + 12 flrs Building No 4: St + 11 flrs
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CC for Bldg no. 5 CE/9475/WS/AK dtd. 22nd June 2016, Concession approved for Bldg No5 by MC on dt 06/03/2018 CC for Bldg no. 2 CE/9195/WS/AK dtd. 01st January 2016
15.Total Plot Area (sq. m.)	11,370.38 sq m.
16.Deductions	155.25 sq.m
17.Net Plot area	11,215.13 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 28,490.0
	b) Non FSI area (sq. m.): 9820.41
	c) Total BUA area (sq. m.): 37810
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 28,490.0
	Approved Non FSI area (sq. m.): 9820.41
	Date of Approval: 22-06-2016
19.Total ground coverage (m2)	2,169.82
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.08 %
21.Estimated cost of the project	756200000


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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg 2 - wing A	B + St + 13 flrs	41.9
2	Bldg 2 - wing B	B + St + 13 flrs	41.9
3	Bldg 2 - wing C	B + St + 13 flrs	41.9
4	Bldg 2 - wing D	B + St + 13 flrs	41.9
5	Building no 3	St + 12 flrs	37.06
6	Building no 4	St + 11 flrs	34.8
7	Building no 5	B + St + 13 flrs	40.6

23.Number of tenants and shops	No. of tenants: 402 No. of shops: 3
24.Number of expected residents / users	Residents : 2010
25.Tenant density per hectare	5.5
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 mts. wide DP road & 12.0 mt wide internal layout road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.0 mtr Drive way with turning radius of 6.0 mtrs
29.Existing structure (s) if any	As per Environment Clearance vide no. SEAC-2010/CR.517/TC.2 dated 3rd February 2011
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

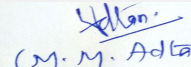
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Dry season:	Source of water	MCGM / Recycled water								
	Fresh water (CMD):	196								
	Recycled water - Flushing (CMD):	105								
	Recycled water - Gardening (CMD):	14								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	340								
	Fire fighting - Underground water tank(CMD):	1 of 250 KLD & 1 of 25 KLD								
	Fire fighting - Overhead water tank(CMD):	-								
	Excess treated water	Drained in external sewer line								
Wet season:	Source of water	MCGM / Recycled water								
	Fresh water (CMD):	196								
	Recycled water - Flushing (CMD):	105								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	326								
	Fire fighting - Underground water tank(CMD):	1 of 250 KLD & 1 of 25 KLD								
	Fire fighting - Overhead water tank(CMD):	-								
	Excess treated water	Drained in external sewer line								
Details of Swimming pool (If any)	NA									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
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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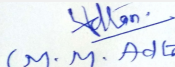

 (M. M. Adtani)
Shri M.M.Adtani (Chairman SEAC-II)

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	3.5 m
	Size and no of RWH tank(s) and Quantity:	2 nos. of tanks with total capacity of 90 cum
	Location of the RWH tank(s):	Stilt floor
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	30 lacs
	Budgetary allocation (O & M cost) :	1 lac
	Details of UGT tanks if any :	In Basement
35.Storm water drainage	Natural water drainage pattern:	drain channel
	Quantity of storm water:	0.30 cum/sec
	Size of SWD:	0.45 m. x 0.60 m.
Sewage and Waste water	Sewage generation in KLD:	276cmd
	STP technology:	MBBR + UF
	Capacity of STP (CMD):	280 cmd.
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	85 lacs
	Budgetary allocation (O & M cost):	6 lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	0.5 MT/day
	Disposal of the construction waste debris:	used for filling the plot and maintaining natural slopes.
Waste generation in the operation Phase:	Dry waste:	404 kg/day
	Wet waste:	608 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Na
	STP Sludge (Dry sludge):	14 kg
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Segregation and sale of recyclables
	Wet waste:	Biodegradable waste to compost.(OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	mix with wet waste and convert that into compost
	Others if any:	NA
Area requirement:	Location(s):	utility area
	Area for the storage of waste & other material:	32 sq.m
	Area for machinery:	same as above
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	25 lacs
	O & M cost:	3 lacs

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

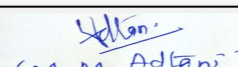
40.Details of Fuel to be used

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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43.Green Belt Development	Total RG area :	2897.53 sqm
	No of trees to be cut :	4
	Number of trees to be planted :	455
	List of proposed native trees :	Tree list enclosed
	Timeline for completion of plantation :	Till operation 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	Tree list enclosed	Tree list enclosed	Tree list enclosed	Tree list enclosed

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	Tree list enclosed	Tree list enclosed	Tree list enclosed

47.Energy

Power requirement:	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	104 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	3583 kw
	During Operation phase (Demand load):	1682 kw
	Transformer:	990 KW transformer
	DG set as Power back-up during operation phase:	2 - Nos of 200 kVA & 1 - Nos of 80 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

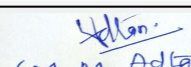
48.Energy saving by non-conventional method:

- Energy Saving Measure:
- Energy Saving Measures:
- (1) Solar panels for water.
- (2) Solar PV panels for common lights.
- (3) Saving by using non conventional & 5 star rating appliance for flats has been considered.
- (4) Saving by using non conventional & 5 star rating appliance for common area has been considered.


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49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Energy Saving Measure	14.35 %

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:	36.60 lacs
	O & M cost:	4.98 lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Debris/Top soil Management	-	4.81
2	Transplantation of trees	-	1.0
3	Toilets for labour + drinking water + first aid arrangement	-	3.0
4	Total	-	8.81

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	-	85.0	6.0
2	Solid Waste Management	-	25.0	3.0
3	Rain Water Harvesting	-	30.0	1.0
4	Green Belt	-	4.0	0.4
5	Energy saving features	-	36.60	4.98
6	Environment Monitoring	-	--	0.5
7	TOTAL	-	181	16

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

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No Information Available


53. Traffic Management

	Nos. of the junction to the main road & design of confluence:	1` nos.
Parking details:	Number and area of basement:	2944.34 sqm
	Number and area of podia:	NA
	Total Parking area:	5114.16 Sq.m.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	390 nos
	Public Transport:	NA
	Width of all Internal roads (m):	12 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 at Apprx 4.5 km towards north east
	Category as per schedule of EIA Notification sheet	Category B: 8(a)
	Court cases pending if any	NA
	Other Relevant Informations	Addition in FSI area due to consumption of fungible FSI and also validity of Environment Clearance granted was up to 3rd February 2018. Hence we are applying for amendment and renewal of validity of Environment Clearance.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-04-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

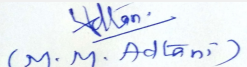
Summorisred in brief information of Project as below.

Brief information of the project by SEAC


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PP Mr. Hiren Dhruv, Architect Mr. Pavan Bhavsar were present during the meeting along with environmental consultant Aditya Environmental Services Pvt. Ltd.


PP informed that, previously, the proposal was for redevelopment of 3 residential buildings. Environmental Clearance was obtained vide letter dated 3rd February, 2011. PP further informed that, they have constructed Building-3 (Stilt + 12 floors) and Building-4 (Stilt + 11 floors) with total built up area 9,792.49 sq. m (FSI Area 7,073.94 sq. m + Non FSI Area 2,718.55 sq. mt) and also received Occupation Certificate for the same.

PP stated that, due to consumption of fungible FSI and also road width FSI, now the proposal is for extension of the previous EC as well as amendment in proposed building configuration. PP informed that, the total plot area of the project is 11,370.38 Sq. mt. having total construction area 37810 Sq. mt. (FSI - 28,490.0 Sq. mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Bldg 2 - wing A	B + St + 13 flrs	41.9
Bldg 2 - wing B	B + St + 13 flrs	41.9
Bldg 2 - wing C	B + St + 13 flrs	41.9
Bldg 2 - wing D	B + St + 13 flrs	41.9
Building no 3	St + 12 flrs	37.06
Building no 4	St + 11 flrs	34.8
Building no 5	B + St + 13 flrs	40.6

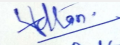
The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of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

DECISION OF SEAC


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SEAC-II)

In view of above, the proposal is deferred and shall be considered only after the compliance of above observations.

Specific Conditions by SEAC:

- 1) PP to submit the dated architect certificate for Building wise construction done on site.
- 2) PP to submit the comparative statement for all parameters.
- 3) PP to submit detail Calculation and Design for fire tender movement.
- 4) PP to upload copy of revised approved plan
- 5) PP to submit copy of OC received.

FINAL RECOMMENDATION

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

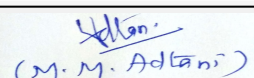
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**Shri M.M. Adtani (Chairman
SEAC-II)**


85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019

Subject: Environment Clearance for Proposed Residential & commercial development on plot Bearing C.T.S No. 712, 713, 714, 715, 716, 717/A, 717/B, 717/1 To 7&13, 718, 719, 719/1 To 14, 720, 720/1 To 2, 721, 721/1 To 6, 722, 723,724, 724/1 To 2 & 725 of village Malad (E), Vaishetpada Road No. 1, Mumbai - 400097.

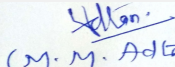
Is a Violation Case: No

1.Name of Project	Residential & Commercial Project - Royal Presto
2.Type of institution	Private
3.Name of Project Proponent	M/s Royal realtors
4.Name of Consultant	AQURA Enviro Projects Pvt. Ltd.
5.Type of project	SR 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	C.T.S No. 712, 713, 714, 715, 716, 717/A, 717/B, 717/1 To 7&13, 718, 719, 719/1 To 14, 720, 720/1 To 2, 721, 721/1 To 6, 722, 723,724, 724/1 To 2 & 725 of village Malad (E)
9.Taluka	Borivali
10.Village	Malad
Correspondence Name:	Mr Deven P. Shah
Room Number:	--
Floor:	6th
Building Name:	Shah trade centre
Road/Street Name:	Rani sati Marg
Locality:	Near Western Express Highway
City:	Mumbai
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	Concession Document with vide letter no. SRA/ENG/2851/PN/PL/LOI dated 28.06.2017 IOD/IOA/Concession/Plan Approval Number: Rehab : SRA/ENG/PN/PVT/175/20160116/AP/R dated 12/1/2018. Sale : SRA/ENG/PN/PVT/175/20160116/AP/R dated 23/7/2018 Approved Built-up Area: 46429.18
13.Note on the initiated work (If applicable)	Foundation work is in progress for rehab building as per CC obtained with vide letter no. PN/PVT/175/20160116/AP/R.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENG/2851/PN/PL/LOI dated 04.11.2017
15.Total Plot Area (sq. m.)	12860.8 Sq. m
16.Deductions	Road Set Back Area: 3077.75 sq. m & Deduction of plot area of C.T.S 725: 115 sqm., Total Deduction = 3192.75 Sq. m
17.Net Plot area	9668.05
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 46429.18 Sq. m b) Non FSI area (sq. m.): 35218.78 Sq.m c) Total BUA area (sq. m.): 81647.96
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 46429.18 Sq. m Approved Non FSI area (sq. m.): 35218.78 Sq.m Date of Approval: 28-06-2017
19.Total ground coverage (m2)	4370.14 sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	40%
21.Estimated cost of the project	3584500000


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22. Number of buildings & its configuration

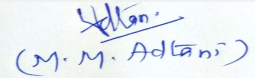
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Building	Lower Ground + Upper Ground + 1 Podium Level + Service floor + 1st to 22nd upper floors.	69.95 m
2	Sale Building (Wing A & B)	Basement + cellar floor + Ground + Mezzanine floor + 1st to 3rd Podium level + 1st to 20th upper floors.	69.79 m
3	Sale Building (Wing C & D)	Lower Ground + Upper Ground + 1st to 24th upper floors.	69.79 m

23. Number of tenants and shops	<p>Rehab Building: Flats: 454 Nos Shops: 64 Nos Welfare Center - 5 Balwadi - 5 Society Office - 5 Fitness Center - 1</p> <p>Sale Building: Wing A & B - Flats: 237 Fitness Center - 1 Society Office - 1</p> <p>Wing C & D Flats: 384 Shops: 26 Fitness Center - 1 Society Office - 1</p> <p>Total Flats: 1073 Total Shops: 90 Office: 8 Community Hall: 1 Departmental Store: 1</p>
24. Number of expected residents / users	Rehab Building = Residential Population: 2270 Nos, Shops: 128 Nos. Sale Building = Residential Population: 3105 Nos, Shops: 52 Nos., Office: 78 Nos, Community Hall: 110 Nos., Departmental Store: 36 Nos., Office & Departmental Store Visitors: 364 Nos., Total population: 6143 Nos.
25. Tenant density per hectare	Tenement Density: 500 T/H, Tenant Density: 2500 Tenants
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 m wide DP road and 13.40 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	6 m to 9 m
29. Existing structure (s) if any	512 nos. of existing slum structures


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30.Details of the demolition with disposal (If applicable)	Demolition waste & construction & excavation materials disposed of as per letter obtained from Solid Waste Management Department, MCGM with vide letter no. E.E/SWM/1404/Z-IV/DT 27.02.2018 & E.E/SWM/812/Z-IV/DT 23.08.2018 Respectively.
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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):	513
	Recycled water - Flushing (CMD):	308
	Recycled water - Gardening (CMD):	30
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	821
	Fire fighting - Underground water tank(CMD):	720
	Fire fighting - Overhead water tank(CMD):	210
	Excess treated water	318
Wet season:	Source of water	MCGM
	Fresh water (CMD):	513
	Recycled water - Flushing (CMD):	308
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	821
	Fire fighting - Underground water tank(CMD):	720
	Fire fighting - Overhead water tank(CMD):	210
	Excess treated water	428
Details of Swimming pool (If any)	Not Applicable	

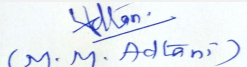
33.Details of Total water consumed

Particulars	Consumption (CMD)	Loss (CMD)	Effluent (CMD)
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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 to 3 m below Ground level
	Size and no of RWH tank(s) and Quantity:	3 Tanks of total 98 CMD Capacity
	Location of the RWH tank(s):	Lower Ground
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	4.5 Lakh
	Budgetary allocation (O & M cost) :	0.3 Lakh/year
	Details of UGT tanks if any :	Domestic : 190 CMD for Sale + 137 CMD for Rehab Flushing : 190 CMD for Sale + 74 CMD for Rehab Fire Tank : 2 nos of 250 CMD for sale + 1 Nos of 220 CMD for Rehab = 720 CMD

35.Storm water drainage	Natural water drainage pattern:	Storm water drain is laid at a slope of 1: 350 to the municipal outfall outside the plot. Rainwater from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
	Quantity of storm water:	0.350 cum/sec
	Size of SWD:	400 mm - 600 mm wide channel

Sewage and Waste water	Sewage generation in KLD:	729 CMD
	STP technology:	Moving Bed Bio Reactor
	Capacity of STP (CMD):	Total 3 STPs = 309 CMD for Rehab , 168 CMD & 254 CMD for Sale
	Location & area of the STP:	Rehab: Lower Ground Level - 136.72 Sq. m, Sale - Wing A & B: Lower Ground Level - 101 Sq. m, Sale - Wing C & D: Lower Ground Level - 150 Sq. m
	Budgetary allocation (Capital cost):	1.5 Cr
	Budgetary allocation (O & M cost):	18 Lakh/ Year


36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per Construction and Demolition waste management rules, 2016.


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Waste generation in the operation Phase:	Dry waste:	1521.6 Kg/ Day
	Wet waste:	1014.4 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	36.35 Kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Dry waste would be further segregated into recyclable and non recyclable. Recyclable will be handed over to authorize vendors and non-recyclable will be handed over to local bodies.
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit. Organic Waste Convertor (OWC) and the compost generated would be used as manure for gardening purpose and excess would be sold to authorize vendors.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be sold to authorize vendors.
	Others if any:	Not Applicable
Area requirement:	Location(s):	Rehab- Lower Ground level, Sale - Upper Ground Level
	Area for the storage of waste & other material:	Rehab = 23 Sq. m, Sale = Wing A & B: 27 Sq. m, Wing C & D: 21 Sq. m
	Area for machinery:	5 Sq. m Each
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	18 Lakh
	O & M cost:	7 Lakh/ 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

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Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	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 :	1074.96 sq.mt (Ground -779.70 sq.mt (On Mother earth) + Podium - 295.26 sq.mt)
	No of trees to be cut :	23
	Number of trees to be planted :	109
	List of proposed native trees :	Azadiracta indica, Saraca asoka, Michelia champaca, Albizia lebbeck, Anthocephallus cadamba
	Timeline for completion of plantation :	After completion of construction work.

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	20	Large tree, good for roadside plantation
2	Saraca asoka	Sita Ashok	20	Shady tree with red-yellow flowers.
3	Michelia champaca	Son chafa	20	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
4	Albizia lebbeck	Shirish	10	Shady tree, yellowish green fragrant flowers
5	Anthocephallus cadamba	Kadamb	10	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 Negunda (Nirgudi)	2.00 m	-
2	Adhatoda Vasica (Adulasa)	1.75 m	-
3	Plumbago Zeylanica (White Plumbago)	1.50 m	-

47.Energy

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Power requirement:	Source of power supply :	Tata Power Company Ltd.
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	2959.34 KW
	During Operation phase (Demand load):	1773.80 KW
	Transformer:	Transformer size will be subject to approval by supply company
	DG set as Power back-up during operation phase:	Rehab: 400 KVA, Sale : 400 KVA, 320KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48. Energy saving by non-conventional method:

Solar PV Panels for common area lighting & Hot water

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar + ECBC	11 %

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:	38 Lakh
	O & M cost:	1.52 Lakh/year

51. Environmental Management plan Budgetary Allocation

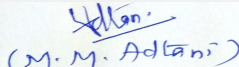
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for dust Suppression	0.5
2	Air Environment	Tyre cleaning and Vehicle maintenance	0.5
3	Air Environment	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	0.1
4	Drinking water	Potable Water Supply	0.75


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5	Socio-economic Environment	Site sanitation Facility and its maintenance	1.0
6	Health & Safety	Disinfection at Site	0.5
7	Health & Safety	Health check-up & first aid	0.1
8	Health & Safety	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	5.0
9	Health & Safety	Safety Training to Workers (Twice in Year), Safety Officer	0.25
10	Health & Safety	Safety nets	0.25
11	Environment management	Environmental Monitoring	5.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP & Sewerage network	3 STPs - 1 No. of 309 CMD for Rehab , 168 CMD & 254 CMD for Sale	150 Lakh	18 Lakh/yr
2	RWH System	3 Tanks of total 98 CMD Capacity	4.5 Lakh	0.3 Lakh/yr
3	Solid Waste Management	3 Nos of OWCs	18 Lakh	7 Lakh/yr
4	Solar Installation	Solar PV Panels for common area lighting & Hot water	38 Lakh	1.52 Lakh/yr
5	Landscaping	Maintaining RG area	11 Lakh	1.5 Lakh/year

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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available

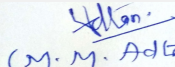
53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Two
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Parking details:	Number and area of basement:	Sale Building (A & B wing) - 1 basement - 1500.96 sq.m
	Number and area of podia:	Sale Building (3 numbers of Podium): 1st podium - 1434.04 sq.m , 2nd podium - 1426.51 sq.m , 3rd podium - 1466.60 sq.m , Rehab Building - 1 number of Podium - 1056.36 sq.m, Total Area of Podium - 5383.51 sq.m.
	Total Parking area:	4045.40 sq.m.
	Area per car:	12.00 sq.mt
	Area per car:	12.00 sq.mt
	Number of 2-Wheelers as approved by competent authority:	Rehab - 35 nos & Sale - 80 nos , Total Numbers - 115 Numbers
	Number of 4-Wheelers as approved by competent authority:	Rehab: 88 nos. & Sale: 220 nos. Total Numbers - 308 Numbers
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Approx. 100 m from Sanjay Gandhi National Park
	Category as per schedule of EIA Notification sheet	8(a) {Building and Construction projects = 20,000 sq. m. and <1,50,000 sq. m. of built-up area}Category 'B'
	Court cases pending if any	Not Applicable
	Other Relevant Informations	None
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

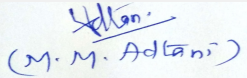
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	NA
Water Budget	Dry season: 821 KLD Wet season: 821 KLD
Waste Water Treatment	Sewage generation in KLD: 729 STP technology: Moving Bed Bio Reactor Capacity of STP(CMD); Total 3 STPs = 309 CMD for Rehab , 168 CMD & 254 CMD for Sale
Drainage pattern of the project	Quantity of storm water: 0.350 cum/sec
Ground water parameters	2 to 3 m below Ground level.


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Solid Waste Management	Dry waste: 1521.6 Kg/ Day Wet waste: 1014.4 Kg/Day
Air Quality & Noise Level issues	NA
Energy Management	During Construction Phase: (Demand Load) : 100 KW During Operation phase (Connected load) : 2959.34 KW During Operation phase (Demand load) : 1773.80 KW Total Energy Savings : Solar + ECBC 11 %
Traffic circulation system and risk assessment	NA
Landscape Plan	Total RG area : 1074.96 sq.mt (Ground -779.70 sq.mt (On Mother earth) + Podium 295.26 sq.mt)
Disaster management system and risk assessment	NA
Socioeconomic impact assessment	NA
Environmental Management Plan	Construction Phase Total Cost per annum (Rs. In Lacs):- 13.95 Lacs Operation Phase, Capital cost Rs. In Lacs :- 221.5 Lacs Operational and Maintenance cost (Rs. in Lacs/yr) :- 28.32 Lacs
Any other issues related to environmental sustainability	NA
Brief information of the project by SEAC	

SEAC-AGENDA-0000000799

Representative of PP Mr. Shrenik Mehta & Architect Mr, Suresh Gaikwad were present during the meeting along with environmental consultant AQURA Enviro Projects Pvt. Ltd. PP informed that, the project under consideration is *SRA scheme Project*. PP stated that, the total plot area of the project is 12860.8 Sq. mt. having total construction area 81647.96 Sq. mt. (FSI - 46429.18 Sq. mt.+ NON FSI- 35218.78 Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehab Building	Lower Ground + Upper Ground + 1 Podium Level + Service floor + 1st to 22nd upper floors.	69.95 m
Sale Building (Wing A & B)	Basement + cellar floor + Ground +Mezzanine floor+1st to 3rd Podium level+ 1st to 20th upper floors.	69.79 m
Sale Building (Wing C & D)	Lower Ground + Upper Ground + 1st to 24th upper floors.	69.79 m


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. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

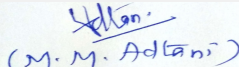
- 1) PP to ensure that wind, shadow, ventilation of Rehab & Sale building is as per building norms
- 2) PP to clearly earmark the perking for residential & commercial.
- 3) PP to upload the SRA plan.



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FINAL RECOMMENDATION

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

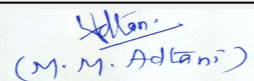
SEAC-AGENDA-00000000199



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**Shri M.M.Adtani (Chairman
SEAC-II)**

85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019


Subject: Environment Clearance for Building & Construction Project

Is a Violation Case: No

1.Name of Project	Arihant Anamika developed by Arihant Aashiyana Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Arihant Aashiyana Pvt Ltd
4.Name of Consultant	EIA Coordinator : Sourabh S. Jaiswar for M/s S G M Corporate Consultant Pvt Ltd
5.Type of project	Building & Construction Project
6.New project/expansion in existing project/modernization/diversification in existing project	Redevelopment Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No.8, Sector 9, Vashi. Navimumbai
9.Taluka	Thane
10.Village	Vashi
Correspondence Name:	Nimesh Shah
Room Number:	1501
Floor:	15
Building Name:	Arihant Aura
Road/Street Name:	Thane Belapur Road
Locality:	MIDC Turbhe
City:	Navimumbai
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	14995.54
16.Deductions	128.082
17.Net Plot area	14867.458
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 36724.549
	b) Non FSI area (sq. m.): 62711.893
	c) Total BUA area (sq. m.): 99436.442
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 13-11-2018
19.Total ground coverage (m2)	6030
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	48
21.Estimated cost of the project	1974000000


22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
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1	Tenants Buiding Wing (1 &2)	B + Stilt + 3 Podium + 1 Fire Cutoff Floor + 35 Residential Floors	119.85 m
2	Tenants Buiding Wing 3	B + Stilt + 3 Podium + 17 Residential Floors	62.95 m
3	Sale Building	B + Stilt + 3 Podium + 1Fire Cutoff Floor + 35 Residential Floors	1119.85 m

23.Number of tenants and shops	Tenements Rehab : 648nos; Sharing: 57; Tenements Sale : 338 no's
24.Number of expected residents / users	5215
25.Tenant density per hectare	695
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	15.0 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	existing buildings of Gr + 2 floors
30.Details of the demolition with disposal (If applicable)	18400 cu mtr C & D waste & 410 MT steel Scrap + 10 % other scrap like wood, Aluminum 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

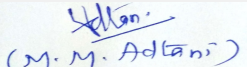
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Dry season:	Source of water	NMMC								
	Fresh water (CMD):	470								
	Recycled water - Flushing (CMD):	235								
	Recycled water - Gardening (CMD):	12								
	Swimming pool make up (Cum):	00								
	Total Water Requirement (CMD) :	717								
	Fire fighting - Underground water tank(CMD):	150								
	Fire fighting - Overhead water tank(CMD):	4 X 20								
	Excess treated water	302								
Wet season:	Source of water	NMMC								
	Fresh water (CMD):	470								
	Recycled water - Flushing (CMD):	235								
	Recycled water - Gardening (CMD):	00								
	Swimming pool make up (Cum):	00								
	Total Water Requirement (CMD) :	705								
	Fire fighting - Underground water tank(CMD):	150								
	Fire fighting - Overhead water tank(CMD):	4 X 20								
	Excess treated water	302								
Details of Swimming pool (If any)	NA									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	



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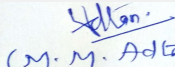

Shri M.M.Adtani (Chairman SEAC-II)

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	4-5 m
	Size and no of RWH tank(s) and Quantity:	02 (25 &100 cum)
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	15 Lakhs
	Budgetary allocation (O & M cost) :	0.75 Lakhs
	Details of UGT tanks if any :	domestic : 220 cum Flushing : 110 cum Fire : 100 cum
35.Storm water drainage	Natural water drainage pattern:	Yes
	Quantity of storm water:	0.29 cum/sec
	Size of SWD:	400 mm wide x 600 mm
Sewage and Waste water	Sewage generation in KLD:	610
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	01 (650 cum)
	Location & area of the STP:	Below Ground & 150.00 sq.m
	Budgetary allocation (Capital cost):	95.0
	Budgetary allocation (O & M cost):	12.20
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	18400 cu mtr C & D waste & 410 MT steel Scrap + 10% other scrap like wood, Aluminum etc & during construction 250 to 500 kg/day
	Disposal of the construction waste debris:	Low lying & making of internal road.
Waste generation in the operation Phase:	Dry waste:	1045 kg/day
	Wet waste:	1565 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	35 Kg
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	Segregated/Sale/Collected by local authority
	Wet waste:	Composting through OWC or Biogas through digester
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	Location(s):	Ground
	Area for the storage of waste & other material:	50.50 sq.m
	Area for machinery:	10.0 sq.m
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	18.0
	O & M cost:	6.0

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

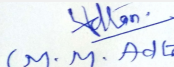
40. Details of Fuel to be used

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


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43.Green Belt Development	Total RG area :	2230.11sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	155
	List of proposed native trees :	yes
	Timeline for completion of plantation :	Dec 20

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	Sapota	Chikoo	10	Provides shade, edible fruits
2	Beng-Dumur	Umbar	10	Provides shade, edible fruits
3	Mango	Amba	10	Provides shade, edible fruits
4	Polyalthia	Ashok	50	Evergreen tree helps in controlling noise pollution
5	Nyctanthus arbor	Parijatak	10	It's a Shrub/tree with fragrant flowers
6	Nyctanthus arbor	Parijatak	10	It's a Shrub/tree with fragrant flowers
7	Mimusopes elengi	Bakul	15	Evergreen tree, timber yielding and medicinal plant
8	Roystonea regia	Royal palm	50	Nitrogen fixer, ornamental plant

45.Total quantity of plants on ground

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

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

47.Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	500 KVA
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	10430 KW
	During Operation phase (Demand load):	7015 KVA
	Transformer:	2500 KVA X 3
	DG set as Power back-up during operation phase:	250 & 400 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 & landscape lightings.
- ? 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	Light fixtures will be used with energy saving LED & T5 fluorescent tube with electronic chocks, Use of Solar energy for street & landscape lightings.	about 14.69 % energy savings in common areas.

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:	95
	O & M cost:	7.5

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Sanitation	pH, BOD, COD etc.	2.5
2	Health	checkup	2.0
3	Health	checkup	2.0

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	pH, BOD, COD etc.	95.0	1.20
2	RAIN WATER HARVESTING	NA	15.0	0.75
3	SOLID WASTE MANAGEMENT	PH, NPK	180	6.0
4	ENERGY SAVING MEASURES	LED, Solar Energy	95.0	7.5
5	Green Belt	plantation	50.0	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

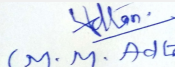
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	Number and area of basement:	01 (12,500.00 Sq.m)
	Number and area of podia:	03 (28550.00 sq. m)
	Total Parking area:	44,500.00 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:	150
	Number of 4-Wheelers as approved by competent authority:	1148 No
	Public Transport:	Bus Stop
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	NA


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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 b (B1)
	Court cases pending if any	NA
	Other Relevant Informations	We had submitted application on MoEF portal on dated 17/11/2015 and this case was considered by SEAC -II in its 43rd meeting . However, we couldnot present our case before SEAC. our file no is SEIAA/2015/II/CR462/TC-3. Now, we have submitted online application on Parivesh Portal dated 13/11/2018. and our file No is SIA/MH/NCP/85301/2018.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-11-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	NA
Water Budget	Dry season: 717 KLD Wet season: 705 KLD
Waste Water Treatment	Sewage generation in KLD: 610 STP technology: MBBR Technology Capacity of STP(CMD): 01 (650 cum)
Drainage pattern of the project	Natural water drainage pattern: Yes Quantity of storm water: 0.29 cum/sec
Ground water parameters	Level of the Ground water table: 4-5 meters.
Solid Waste Management	Dry waste: 1045 kg/day Wet waste: 1565 kg/day
Air Quality & Noise Level issues	NA
Energy Management	During Construction Phase: (Demand Load) : 500 KVA During Operation phase (Connected load) : 10430 KW During Operation phase (Demand load) : 7015 KVA Total Energy Savings : 14.69 %
Traffic circulation system and risk assessment	NA
Landscape Plan	Total RG area : 2230.11 sq.m
Disaster management system and risk assessment	NA
Socioeconomic impact assessment	NA
Environmental Management Plan	Construction Phase Total Cost per annum (Rs. In Lacs):- 6.5 Lacs Operation Phase, Capital cost Rs. In Lacs :- 273 Lacs Operational and Maintenance cost (Rs. in Lacs/yr) :- 19.45 Lacs
Any other issues related to environmental sustainability	NA

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Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant M/s S G M Corporate Consultant Pvt Ltd. PP stated that, the project under consideration is redevelopment project. PP stated that, the project was earlier considered in 43rd Meeting of SEAC-2 held on January,2016.

PP informed that, the project under consideration is *Redevelopment Project* with total plot area 14995.54 Sq. mt. having total construction area 115819.756Sq. mt. (FSI - 36712.057 Sq. mt.+ NON FSI- 79107.723Sq. mt.).

The building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Tenants Buiding Wing (1 &2)	B + Stilt + 3 Podium + 1 Fire Cutoff Floor + 35 Residential Floors	119.85 m
Tenants Buiding Wing 3	B + Stilt + 3 Podium + 17 Residential Floors	62.95 m
Sale Building	B + Stilt + 3 Podium + 1Fire Cutoff Floor + 35 Residential Floors	1119.85 m

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. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

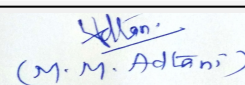
- 1) PP to submit Debris management plan as per construction and demolition waste management rules approved by NMMC.
- 2) PP to submit HRC Noc.
- 3) PP to ensure their will be clear drive way for fire tender movement.
- 4) PP to upload shadow report submitted during meeting.
- 5) PP to provide ventilation mechanism in left passage.
- 6) PP to ensure that BoD should be less than 5



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FINAL RECOMMENDATION

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

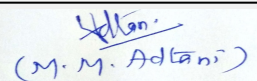
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85th SEAC-II meeting

SEAC Meeting number: 85 Meeting Date January 18, 2019

Subject: Environment Clearance for Environment Clearance for Proposed redevelopment of Municipal Property known as Tulsiwadi bearing C. S. No. 383 (pt.), 1/383, 389, 390, 397 and 413(pt.) of Tardeo Division, K. Khadye Marge, Mumbai - 400 034 under DCR 33(9) i.e. Urban Renewal Scheme for Tulsiwadi Navnirman (SRA) C.H.S Ltd.

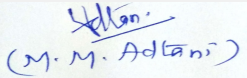
Is a Violation Case: No

1.Name of Project	Proposed redevelopment of Municipal Property known as Tulsiwadi.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Joyous Housing Ltd.
4.Name of Consultant	AQURA Enviro Projects Pvt. Ltd.
5.Type of project	Urban Renewal Scheme under section 33(9) of D. C. Regulation 1991.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environment Clearance Letter vide No. 21-180/2006-IA.III dated 21st September 2006 and revalidated as per Minutes of the 66th SEIAA meeting held on 27th & 28th January 2014.
8.Location of the project	Plot bearing C. S. No. 383 (pt.), 1/383, 389, 390, 397 and 413(pt.) of Tardeo Division, K. Khadye Marge, Mumbai - 400 034
9.Taluka	Mumbai
10.Village	Tardeo
Correspondence Name:	Mr. Shrenik Mehta
Room Number:	--
Floor:	--
Building Name:	Tulsiwadi Project office,
Road/Street Name:	S.K. Rathod Marg,
Locality:	Ambedkar nagar, Behind Income Tax office,
City:	Tardeo, Mumbai - 400086
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	LOI U/no.AC/Est/23103/AO (CHS)/SOC-1 dated 17/01/2017.
	IOD/IOA/Concession/Plan Approval Number: LBMC Buildings Rehab A1 : EB/9737/D/A Rehab A2 : EB/532/D/A Rehab B1 : EB/531/D/A Rehab B2 : EB/1237/D/A Rehab Buildings Rehab A4 (Wing A & B) : EB/929/D/A Rehab A5 (Wing A & B) : EB/931/D/A Rehab A6 (Wing A & B) : EB/932/D/A
	Approved Built-up Area: 298146.14
13.Note on the initiated work (If applicable)	Construction area on site: 92,566.17 Sq.M. Building Configuration: 7 Building constructed on Site BMC Buildings Rehab A1 Rehab A2 Rehab B1 Rehab B2 Rehab Buildings Rehab A4 (Wing A & B) Rehab A5 (Wing A & B) Rehab A6 (Wing A & B)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI U/no.AC/Est/23103/AO (CHS)/SOC-1 dated 17/01/2017.
15.Total Plot Area (sq. m.)	76,201.88 Sq. M.
16.Deductions	Proposed D. P. Road = 27,214.40 Sq. M.
17.Net Plot area	48,987.48 Sq. M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 2,98,146.14 Sq. M.
	b) Non FSI area (sq. m.): 3,14,643.26 Sq. M.
	c) Total BUA area (sq. m.): 651214.58
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 2,98,146.14 Sq. M.
	Approved Non FSI area (sq. m.): 3,14,643.26 Sq. M.
	Date of Approval: 17-01-2017
19.Total ground coverage (m2)	22688.70 Sq. M.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	46.31%


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21. Estimated cost of the project	10000000000
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22. Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sector I = Sale Building (Tower 1 - wing A & B and Tower 2 - wing C & D)	2 Basement + Ground + 10 Podiums + 11th Stilt Floor + 1st to 45th Upper Floors + Terrace including refuge floor, fire check floor and service floor.	195.40 Mt.
2	Sector II = MCGM (CSQ)	CSQ = Ground + 3 Podiums + 4th Stilt Floor + 1st to 27th Upper Floors	97.70 Mt.
3	Sector II = MCGM (SSQ)	SSQ = Ground + 4 Podiums + 5th Stilt Floor + 1st to 49th Upper Floors	168.00 Mt.
4	Sector III Rehab Building	Ground + 4 Podiums + 5th Stilt Floor + 1st to 43rd Upper Floors	175 Mt.
5	Sector IV BMC = Rehab A1	Stilt + 18 Floors	56.70 Mt.
6	Sector IV BMC = Rehab A2	Stilt + 18 Floors	56.70 Mt.
7	Sector IV BMC = Rehab B1	Stilt + 18 Floors	56.70 Mt.
8	Sector IV BMC = Rehab B2	Stilt + 18 Floors	56.70 Mt.
9	Sector IV Rehab Buildings = Rehab A4 (Wing A & B)	Stilt + 18 Floors	56.70 Mt.
10	Sector IV Rehab Buildings = Rehab A5 (Wing A & B)	Stilt + 18 Floors	56.70 Mt.
11	Sector IV Rehab Buildings = Rehab A6 (Wing A & B)	Stilt + 18 Floors	56.70 Mt.

23. Number of tenants and shops	<p>Sector I = Sale Building (Tower 1 - wing A & B and 2 - wing C & D) = 1388. Sector II = MCGM (CSQ & SSQ) CSQ = 726 SSQ = 378 Sector III Rehab Building = 1365 Sector IV BMC & Rehab Buildings = 2125 BMC Buildings Rehab A1 = 246 Rehab A2 = 246 Rehab B1 = 193 Rehab B2 = 157 Rehab Buildings Rehab A4 (Wing A & B) = 246+246=492 Rehab A5 (Wing A & B) = 246+176=422 Rehab A6 (Wing A & B) = 246+123=369 Total Flats = 5982 Flats + Balwadi + Welfare Centre + Society office + Fitness center etc.</p>
24. Number of expected residents / users	<p>Sector I = Sale Building (Tower 1 - wing A & B and 2 - wing C & D) = 7030 + 3538 = 10568 Sector II = MCGM (CSQ & SSQ) CSQ = 2904 + 295 = 3199 SSQ = 1981 + 714 = 2695 Sector III Rehab Building = 6825 + 688 = 7513 Sector IV BMC & Rehab Buildings = 8500 + 900 = 9400 Total Residential = 27240 Building Staff + Drivers + Maids + Floating population/visitors = 6153 Total Population = 33375</p>
25. Tenant density per hectare	4480 Nos.
26. Height of the building(s)	

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27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	33.50 m wide Keshavrao Khadye
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.00 - 7.5m turning radius
29.Existing structure (s) if any	Yes, slums are present on site.
30.Details of the demolition with disposal (If applicable)	Slums are present on site which will be demolished in near future by taking prior permission from concern authority.

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 & Treated water from STP
	Fresh water (CMD):	2543
	Recycled water - Flushing (CMD):	1318
	Recycled water - Gardening (CMD):	143
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	3861
	Fire fighting - Underground water tank(CMD):	2050 CUM
	Fire fighting - Overhead water tank(CMD):	130 CUM
	Excess treated water	1556

Wet season:	Source of water	MCGM & Treated water from STP & Harvested Rain water
	Fresh water (CMD):	2266 + 277 = 2543
	Recycled water - Flushing (CMD):	1318
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	3861
	Fire fighting - Underground water tank(CMD):	2050 CUM
	Fire fighting - Overhead water tank(CMD):	130 CUM
	Excess treated water	1699

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	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

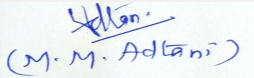
34.Rain Water Harvesting (RWH)

Level of the Ground water table:	Approximate 3.00 meters below ground
Size and no of RWH tank(s) and Quantity:	12 Nos. RWH tank of 554 CUM total capacity with 2 days holding capacity
Location of the RWH tank(s):	Basement & Below Ground
Quantity of recharge pits:	Not Applicable
Size of recharge pits :	Not Applicable
Budgetary allocation (Capital cost) :	30 Lakhs
Budgetary allocation (O & M cost) :	0.5 Lakhs/Year
Details of UGT tanks if any :	Fire Fighting Tank: 2050 CMD Domestic Water Tank: 2550 CMD Flushing Water Tank: 1325 CMD Rain Water Harvesting Tank: 554 CMD



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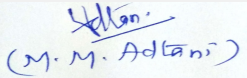

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35.Storm water drainage	Natural water drainage pattern:	Will be connected to proposed 24.40 m wide D. P. Road
	Quantity of storm water:	3.1 m3/Sec
	Size of SWD:	Ranging from 450 - 600 mm wide storm water drain Channel, Slope 1:350
Sewage and Waste water		
Sewage and Waste water	Sewage generation in KLD:	3352 KLD
	STP technology:	Moving Bed Bio-Reactor (MBBR) Technology
	Capacity of STP (CMD):	4 Nos. of STPs of 925, 620, 850 & 1025 KLD capacity each; Total capacity: 3420 KLD
	Location & area of the STP:	Basement & Below Ground, Area: 3500 Sq. M.
	Budgetary allocation (Capital cost):	225 Lakhs
	Budgetary allocation (O & M cost):	5 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Debris & construction waste shall be generated. Recyclable waste will be generated like empty cement bags & cans, scrap metal etc.
	Disposal of the construction waste debris:	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. Disposal of construction waste will be as per "Construction and Demolition waste management Rules 2016.
Waste generation in the operation Phase:	Dry waste:	7475 Kg/Day
	Wet waste:	4983 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	352 Kg/Day
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to authorize vendors and non-recyclable will be disposed off to local authority.
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC) and the compost generated would be used as manure for gardening purpose and excess would be disposed off to authorize vendors or to local authority.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be disposed off to landfill site of MCGM or would be sold to authorize vendors.
	Others if any:	Not Applicable


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Area requirement:	Location(s):	Not Applicable
	Area for the storage of waste & other material:	Approx. 200 Sq. m.
	Area for machinery:	Approx. 50 SQ. M.
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	60 Lakhs
	O & M cost:	2.5 Lakhs/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

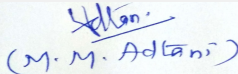
40. Details of Fuel to be used

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


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43.Green Belt Development	Total RG area :	R. G .Area = 12355.3 Sq. m and Open space area = 7851.36 Sq. M.
	No of trees to be cut :	Nil
	Number of trees to be planted :	618 + 157 = 775
	List of proposed native trees :	Shirish, Neem, Maharukh, Satwin, Karanj, Sita Ashok, Kadamb, Bahava, Bakul, Parijatak, Tamhan, Kunti, Apta, Pangara, Palas, Son chafa, Putranjiva, Fish Tail Palm.
	Timeline for completion of plantation :	After completion of construction work

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	Albizia lebbeck	Shirish	40	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	50	Large tree, good for roadside plantation
3	Ailanthus excelsa	Maharukh	40	Large tree, good for roadside plantation
4	Alstonia scholaris	Satwin	40	Shady Tree, white fragrant flowers
5	Pongamia pinnata	Karanj	40	Shady tree
6	Saraca asoka	Sita Ashok	50	Shady tree with red-yellow flowers.
7	Anthocephallus cadamba	Kadamb	50	Shady, large tree, ball shaped flowers.
8	Cassia fistula	Bahava	50	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
9	Mimusops elengi	Bakul	50	Shady tree, small white fragrant flowers
10	Nyctanthes arbor-tristis	Parijatak	45	Small deciduous fast growing tree, beautiful flowers.
11	Lagerstroemia flos-regineae	Tamhan	40	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
12	Murraya paniculata	Kunti	40	Small tree, Fragrant white flowers, Butterfly host plant
13	Bauhinia racemosa	Apta	40	Small tree with small white flowers, Butterfly host plant
14	Erythrina indica	Pangara	40	Medium sized deciduous tree. Bright scarlet flowers.
15	Butea monosperma	Palas	40	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
16	Michelia champaca	Son chafa	40	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
17	Putranjiva roxburghii	Putranjiva	40	Medium sized evergreen tree,
18	Caryota urens	Fish Tail Palm	40	Ornamental tree

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	--	--	--

47. Energy

Power requirement:	Source of power supply :	Brihanmumbai Electric Supply & Transport (B.E.S.T.)
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	20,335 KW (20 MW)
	During Operation phase (Demand load):	11,302 KW (11 MW)
	Transformer:	As per supplier company
	DG set as Power back-up during operation phase:	12 D. G Sets - 2 Nos. of 600 kVA, 1 No. of 400 kVA, 2 Nos. of 500 kVA and 7 Nos. of 250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48. Energy saving by non-conventional method:

Day mode / evening modes and night mode for lighting control.
 Electronic ballast - Normal copper ballast consume app. 8 W where as electronic ballasts consume 4W for 36W fixture. i.e. watt losses with copper ballast are app. 25% whereas with electronic ballast shall be 12.5 % i.e. saving of app 12 % in lighting power.
 Energy efficient lamps - Usage of lamps reduces power consumption in lighting. Use of CFL / T5 lamps in place of normal T8 / incandescent lamps
 Use of LED for landscape lighting compared to normal metal halides / high pressure sodium or CFL lamps.
 Use of timer for landscape lighting - Partial power for landscape / street lighting shall be provided by timer.
 Use of Energy efficient equipment's like low loss Transformers & switch gears.
 Occupancy sensor to be used in staircase mid landing & apartment level, Lobby.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saved	20%

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:	00
	O & M cost:	00

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for dust suppression	5.0
2	Air Environment	Tyre cleaning and Vehicle maintenance	0.5
3	Air Environment	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	0.5
4	Drinking water	Potable Water Supply	7.0
5	Socio-economic Environment	Site sanitation Facility and its maintenance	5.0
6	Health & Safety	Disinfection at Site	2.5
7	Health & Safety	Health check-up of workers	10.0
8	Health & Safety	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	5.0
9	Health & Safety	Safety Training to Workers (Twice in Year), Safety Officer	0.5
10	Health & Safety	Safety nets	1.0
11	Environment management	Environmental Monitoring	5.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Waste Water Treatment	STP & Sewerage network	225	5
2	Water Conservation	RWH System	30	0.5
3	Solid Waste Management	OWC units & Curing System for treatment of Wet waste	60	2.5
4	Landscaping	Plantation of trees	140	4
5	Environmental Monitoring	Environmental Monitoring	00	5.0

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

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No Information Available


53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	None
Parking details:	Number and area of basement:	Sale Building 2 Basement; Area: 20636.74
	Number and area of podia:	Sector I - Sale Building 10 Podium; Area: 1,00,914.20 Sq. m. Sector II - MCGM CSQ 3 Podium; Area: 9,742.62 Sq. m. Sector II - MCGM SSQ 7 Podium; Area: 11,524.59 Sq. m. Sector III - Rehab Slum 5 Podium; Area: 13,663.70 Sq. m.
	Total Parking area:	1,56,481.85 Sq. m. (Basement + Ground/Stilt + Podiums)
	Area per car:	13.75 Sq. m.
	Area per car:	13.75 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	Not Applicable.
	Number of 4-Wheelers as approved by competent authority:	3341 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Above 6.00 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park - Approx. 20 Km
	Category as per schedule of EIA Notification sheet	Category 'B'
	Court cases pending if any	Nil
	Other Relevant Informations	None
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS


Summorisred in brief information of Project as below.

Brief information of the project by SEAC


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 (M. M. Adtani)
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Representative of PP Mr. Shrenik Mehta & Architect Mr, Prakash were present during the meeting along with environmental consultant AQURA Enviro Projects Pvt. Ltd. PP informed that, the project under consideration is *proposed Expansion of Urban Renewal scheme Project*. PP stated that, Proposed project has obtained Prior Environment Clearance from MOEF vide letter dated 21/09/2006, and is revalidated in January, 2014. PP further stated that, the construction work on site is carried out as per earlier Environment Clearance & till date 92,566.17 Sq.m. construction comprising of 7 Building (Sector IV) carried out.

PP stated that, due to additional FSI now plot potential increases, Now the project under consideration is with total plot area 76,201.88 Sq. mt. having total construction area 651214.58 Sq. mt. (FSI - 2,98,146.14 Sq. mt + NON FSI- 3,14,643.26 Sq. mt) and building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Sector I = Sale Building (Tower 1 - wing A & B and Tower 2 - wing C & D)	2 Basement + Ground + 10 Podiums + 11th Stilt Floor + 1st to 45th Upper Floors + Terrace including refuge floor, fire check floor and service floor.	195.40
Sector II = MCGM (CSQ)	CSQ = Ground + 3 Podiums + 4th Stilt Floor + 1st to 27th Upper Floors	97.70
Sector II = MCGM (SSQ)	SSQ = Ground + 4 Podiums + 5th Stilt Floor + 1st to 49th Upper Floors	168.00
Sector III Rehab Building	Ground + 4 Podiums + 5th Stilt Floor + 1st to 43rd Upper Floors	175
Sector IV BMC = Rehab A1	Stilt + 18 Floors	56.70
Sector IV BMC = Rehab A2	Stilt + 18 Floors	56.70
Sector IV BMC = Rehab B1	Stilt + 18 Floors	56.70
Sector IV BMC = Rehab B2	Stilt + 18 Floors	56.70
Sector IV Rehab Buildings = Rehab A4 (Wing A & B)	Stilt + 18 Floors	56.70
Sector IV Rehab Buildings = Rehab A5 (Wing A & B)	Stilt + 18 Floors.	56.70
Sector IV Rehab Buildings = Rehab A6 (Wing A & B)	Stilt + 18 Floors	56.70

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. Committee noted that the project is under 8a (B1) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

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DECISION OF SEAC

After discussion, ToR presented by PP was approved with following additional ToR in the same

Specific Conditions by SEAC:

- 1) PP to submit the comparative statement for baseline i.e building wise profile.
- 2) PP to ensure that % of RG should not be reduced with respect to plot.
- 3) PP to submit & upload wind analysis, traffic analysis, shadow analysis, light and ventilation analysis and measures to reduce heat island effect.
- 4) PP to submit civil aviation NoC.
- 5) PP to submit Socio-economic study report.
- 6) PP to submit the detail storm water drain, sewer drain calculations which clearly stating that the capacity of drains is adequate. Also PP to submit the NoC from local planning authority for the same
- 7) PP to submit Geotechnical study report.
- 8) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project.
- 9) PP to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above.
- 10) Committee approved the ToR which is valid upto 18/1/2022.

FINAL RECOMMENDATION

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

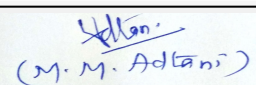
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