STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Application for Amendment in Environment Clearance

Is a Violation Case: No

1.Name of Project	"Romell Aether" residential project On plot bearing C.T.S No. 175/4, 175/5 at Goregaon (East), Mumbai Goregaon, Maharashtra by Romell Properties Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Romell Properties Pvt. Ltd. - Mr. Domnic Romell
4.Name of Consultant	Mahabal Enviro Engineers Pvt Ltd. Thane Maharashtra
5.Type of project	Residential & MCGM Parking lot and School building
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance has been obtained from Government of Maharashtra vide File no. SEAC-2011/CR.891/TC.2 dated: 6th March, 2012
8.Location of the project	On plot bearing C.T.S No. 175/4, 175/5 at Goregaon (East), Mumbai
9.Taluka	Mumbai
10.Village	Goregaon (East)
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Yes, received having file No: CHE/8554/BP (WS)/ AP Dated: 16th January 2013
	IOD/IOA/Concession/Plan Approval Number: Yes, received having file No: CHE/8554/BP (WS)/ AP Dated: 16th January 2013
	Approved Built-up Area: 25445
13.Note on the initiated work (If applicable)	We have constructed upto 35 floors in Wing-A and upto 10 floors in Wing-B
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	11,372 sq.mt.
16.Deductions	5,004 sq.mt.
17.Net Plot area	5,731 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25,445 sq.mt.
	b) Non FSI area (sq. m.): 41,911 sq.mt.
	c) Total BUA area (sq. m.): 67,355.87 sq.mt.
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)	Total plinth area is 3,626 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32%
21.Estimated cost of the project	4210000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential	Ground+6 Parking podium+Terrace open to sky+35 Floors	141.1
2	MCGM Parking lot	2 Basement+Ground+4 Podium	19.90
3	School Building	Ground+5 Floors	23.95

SEAC-AGENDA-0000000054

23.Number of tenants and shops	301 Nos of Residential Tenants
24.Number of expected residents / users	1,505
25.Tenant density per hectare	541 tenenat/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal Road: 9 m & 12 m
29.Existing structure (s) if any	Yes as per EC copy recieved
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	136
	Recycled water - Flushing (CMD):	93
	Recycled water - Gardening (CMD):	24
	Swimming pool make up (Cum):	186
	Total Water Requirement (CMD) :	203
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	65

SEACGEIA-0000000054

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	136
	Recycled water - Flushing (CMD):	81
	Recycled water - Gardening (CMD):	12
	Swimming pool make up (Cum):	186
	Total Water Requirement (CMD) :	203
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	77
Details of Swimming pool (If any)	One no of Swimming Pool at Podium top level Area : 197.58 sq.mt. Average depth : 0.89 m	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	50 m
	Size and no of RWH tank(s) and Quantity:	1. Wing B1 and B2: 40 m3, 2. MCGM & Wing C : 40 m3
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	1.2 m x 1.2 m x 1.2 m
	Budgetary allocation (Capital cost) :	Rs.2.51 Lakh
	Budgetary allocation (O & M cost) :	Rs.0.22 Lakh
	Details of UGT tanks if any :	1. Residential 2. MCGM Parking 3. Amenity Domestic : 120 m3 Domestic : 15 m3 Domestic : 21.53 m3 Flushing : 60 m3 Flushing : 15 m3 Flushing : 21.53 m3 Fire Fighting : 300 m3 Fire Fighting : 200 m3

SEAC-AGENDA-0000000054

35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	0.32 m3/sec
	Size of SWD:	0.6 m x 0.6 m & 0.45 m x 0.6 m
Sewage and Waste water	**Sewage generation in KLD:**	163
	STP technology:	Submerged Aerated Fixed Film Bioreactor (SAFFB)
	Capacity of STP (CMD):	One No. having total capacity 180 m3/day only for Residential Tower and separatly Sewer line For MCGM parking lot and School building have been completed and connected to municipal sewer line
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	Rs.32 Lakhs
	Budgetary allocation (O & M cost):	Rs.6 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1000 brass
	Disposal of the construction waste debris:	All the excavation debris is utilized for back filling and leveling at MCGM Parking lot
Waste generation in the operation Phase:	**Dry waste:**	271 kg/day
	Wet waste:	181 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	2 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated and handled over to authorized vendors for recycling
	Wet waste:	Wet garbage will be treated by using composting method
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposed inside the premises
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	50 sq.mt.
	Area for machinery:	15 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.14 Lakhs
	O & M cost:	Rs.1.5 Lakhs
37.Effluent Charecterestics		

SEAC-AGENDA-000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	4,814 sq.mt.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	138 Nos.
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	Plantation will be completed upto December 2018

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

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

SEAC-AGENDA-0000000054

1	Azadirachta indica	Neem	9	Neem is extremely beneficial to save the environment from pollution. It also brings other environmental benefits such as flood control, reduce soil erosion and less salination
2	Albizia lebbeck	Shirish	9	Its used include environmental management, medicine and wood
3	Erythrina indica	Pangara	9	Medium sized deciduous tree, bright scarlet flowers
4	Peltophorum ferrugineum	Copper pod	9	It is deciduous tree growing 15-25 m, it is widely grown in tropical regions as an ornamental tree
5	Cassia fistula	Bahava	9	Flowering tree, having very strong and durable wood, also having medicinal use
6	Lagestromia speciosa	Flos reginae	9	It is small to medium sized ornamental plant, young leaves consume as vegetables, old leaves and mature fruits used in traditional medicine for reducing glucose in blood
7	Butea monosperma	Palas	9	Medium sized deciduous tree, Beautiful orange flowers, butterfly host plant
8	Pongania pinnata	Karanj	9	Legume tree grows about 15-25 m and used for landscaping purpose
9	Millingtonia hortensis	Indian cork	9	Flowering tree most fragrant at night
10	Terminilia cuniata	Arjun	9	It is growing 30 m tall, leaves are used as food by silk worm
11	Brassia actinophylla	Umbrella plant	9	Evergreen tree and also having medicinal use
12	Mimosups elengii	Bakul	9	Shady tree, small white fragrant flowers
13	Alstonia scholaris	Saptaparn	9	Globrous tree and grow up to 40 m, flowers are very fragrant
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	Bauhinea purpurea	-	20
2	Plumeria albaplumeria	-	20

47.Energy

SEAC-AGENDA-0000000054

Power requirement:	**Source of power supply :**	Tata
	During Construction Phase: (Demand Load)	6.4 MW
	DG set as Power back-up during construction phase	1,200 kVA
	During Operation phase (Connected load):	4.99 MW
	During Operation phase (Demand load):	Not Applicable
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	750 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

1. Solar panel lights will be installed for common facilities and area lighting eventually in operation phase, also using energy efficient electrical fixtures
2. Solar street lights are proposed for common areas such as open spaces, pathways, etc.
3. Solar Water heaters are proposed for Hot water generation
4. Calculation & % of saving: 9%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar panel lights are provided for common areas	9%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.41 Lakh
	O & M cost:	Rs.16 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	pH, Color, Odour, Turbidity, Total Hardness, Metals	22.0
2	Site sanitation, toilets, safe drinking water, septic tank	SPM, SO2, NO2	5.00

SEAC-AGENDA-0000000054

3	Environmental monitoring & compliance checking	Air, Water and Noise and Soil Monitoring	2.50
4	Disinfection	Site Sanitation	2.0
5	Health Check-up, first aid	Weekly	2.00
6	Safety personal protective equipment	Daily	5.00
7	Storm water management	Operation and Management of Channels	5.00
8	Vehicle maintenance, washing area, tyre cleaning	Vehicle washing and mechanical maintenance	3.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant (STP)	STP Plant having capacity	67	7
2	Rainwater Harvesting	Channelizing and maintenance of drainage line	5	0.00
3	Solid Waste Management	Composting	4	1.50
4	Fire Fighting	Fire extinguisher and sand bucket	180	18
5	Landscape development	RG area	18	1.80
6	Swimming Pool	Disinfection and maintenance of water quality	50.75	4.06
7	Energy conservation	Solar panels and LED	62.5	5

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:	-

SEAC-AGENDA-000000054

Parking details:	**Number and area of basement:**	2 Nos. of basement having total area 6,398.24 m2
	Number and area of podia:	6 Nos. of podium at residential buildings & 4 Nos. of podium at MCGM parking lot having total area 15.884.36 m2
	Total Parking area:	For Residential Buildings and MCGM Parking lot 27,043.88 m2 (including basement of MCGM parking lot)
	Area per car:	35.86 m2
	Area per car:	35.86 m2
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	8 Nos
	Width of all Internal roads (m):	9 m and 12 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(a) B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	1. Capacity of STP - 180 m3/day was provided for the residential tower only. For MCGM parking lot and School Building construction of separate sewer line is already done and connected to municipal drain. 2. Proposed Residential, MCGM parking lot & School building project at Goregaon, Mumbai 3. We have submitted the Form 1 & 1A on MoEF having file No. SIA/MH/MIS/18834/2013 dated: 14.03.2017
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC-AGENDA-000000054

PP submitted their application for amendment in Environmental clearance for total plot area of 11372 Sq.Mtrs, Total BUA of 67355.87 Sq. Mtrs. and FSI area of 25445 Sq. Mtrs. PP proposes to construct of a Residential building, a MCGM Parking lot and School Building having maximum height of 141.1 Mtrs.

PP has obtained earlier EC vide letter No. SEAC-2011/CR- 89/TC-2 dated 06.03.2012. Now, due to reduction in PG area, PP has applied for amendment in earlier EC.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.It was noted that PP has submitted/uploaded IOD/IOA/Concession Document/Plans as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP inform that he had already requested for certified compliance report to Regional Office, MoEF & CC, Nagpur. PP to obtain & submit certified compliance report of earlier EC from RO, MoEF & CC, Nagpur.
2) PP informed that STP of capacity 180 KLD is provided at project site. Committee pointed out that STP of 200 KLD is mentioned in earlier EC, therefore, PP to increase capacity of already established STP from 180 KLD to 200 KLD as per earlier EC.
3) PP to revise consolidated statement regarding Parking Details & STP capacity as per earlier EC.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000005

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Proposed Redevelopment Of Existing Building No. 1 To 7, Known As Saptarshi Co-op Hsg. Society Ltd on Plot Bearing CTS No. 475(pt) at Swadeshi Mill Compound, Chunabhatti – Sion, Mumbai.

Is a Violation Case: No

1.Name of Project	Proposed Redevelopment Of Existing Building No. 1 To 7, Known As Saptarshi Co-op Hsg. Society Ltd on Plot Bearing CTS No. 475(pt) at Swadeshi Mill Compound, Chunabhatti – Sion, Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	M/s. S. B. Developers
4.Name of Consultant	M/s. Fine Envirotech Engineers
5.Type of project	MHADA Redevelopment Project.
6.New project/expansion in existing project/modernization/diversification in existing project	Redevelopment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot Bearing CTS No. 475(pt) at Swadeshi Mill Compound, Chunabhatti – Sion, Mumbai.
9.Taluka	Sion
10.Village	Not applicable
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	IOD obtained
	IOD/IOA/Concession/Plan Approval Number: IOD Approval Number - Composite building-CE/4440/BPES/AL and Sale building - CE/4460/BPES/AL
	Approved Built-up Area: 41737.96
13.Note on the initiated work (If applicable)	Footings and foundation work of Composite Building no-2 is in progress.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA NOC: NO.CO MB/REE/NOC/F-569/887/2014 Dated 01/08/2014.
15.Total Plot Area (sq. m.)	10305.67 sq.mt.
16.Deductions	165.06 sq.mt.
17.Net Plot area	10140.61 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 41737.96 sq.mt.
	b) Non FSI area (sq. m.): 25727.28 sq.mt.
	c) Total BUA area (sq. m.): 67465.24 sq.mt.
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)	3850.56 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	37.49 %
21.Estimated cost of the project	1614500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sale Building No 1 – Wing A, B,C,D,E & F	Stilt + 2 Podium + 3rd to 18th Residential Floors	68.05
2	Composite Building No 2 - Wing G, H, I, J, K ,L & M	Stilt + 2 Podiums + 3rd to 16th (pt) Residential Floors	54.25

SEAC-AGENDA-0000000054

23.Number of tenants and shops	Total Tenements - 591 nos. (Sale Building (No.1) - 310 nos. and Composite Building (No.2) - 281 nos.)
24.Number of expected residents / users	Total Residents - 2955 nos. [Sale Building (No.1) - 1550 nos. and Composite Building (No.2) - 1405 nos.]
25.Tenant density per hectare	616.16 Tenements per 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)	24.40 m Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Demolished with permission
30.Details of the demolition with disposal (If applicable)	Waste will be disposed off as per rules and debris management plan given by MCGM

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 / Recycled Water
	Fresh water (CMD):	285
	Recycled water - Flushing (CMD):	157
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	10 (One time)
	Total Water Requirement (CMD) :	452
	Fire fighting - Underground water tank(CMD):	500 Cum for Sale Building (No.1) and 600 Cum for Composite Buildings (No.2)
	Fire fighting - Overhead water tank(CMD):	180 Cum for Sale Building (No.1) and 210 Cum for Composite Buildings (No.2)
	Excess treated water	135

SEAC-II-EIA-0000000054

Wet season:	**Source of water**	MCGM / Recycled Water
	Fresh water (CMD):	285
	Recycled water - Flushing (CMD):	157
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	10 (One time)
	Total Water Requirement (CMD) :	442
	Fire fighting - Underground water tank(CMD):	500 Cum for Sale Building (No.1) and 600 Cum for Composite Buildings (No.2)
	Fire fighting - Overhead water tank(CMD):	180 Cum for Sale Building (No.1) and 210 Cum for Composite Buildings (No.2)
	Excess treated water	145
Details of Swimming pool (If any)	Dimension of Swimming Pool - 21.79 m x 5.10 m	

33.Details of Total water consumed

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

SEAC-AGENDA-000000054

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1m and 3m
	Size and no of RWH tank(s) and Quantity:	1 No. of RWH tank of capacity 40 cum for Sale building (No.1) and 1 No. of RWH tank of capacity 30 cum for Composite building (No.2)
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	Not applicale
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs. 20 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2 Lakhs
	Details of UGT tanks if any :	Sale Building No. 1 • Domestic UG tank capacity - 170 cum • Flushing UG tank capacity - 90 cum • Fire UG tank capacity - 500 cum • Rain water UG tank capacity - 40 cum Composite Building No. 2 • Domestic UG tank capacity - 140 cum • Flushing UG tank capacity - 70 cum • Fire UG tank capacity - 600 cum • Rain water UG tank capacity - 30 cum
35.Storm water drainage	**Natural water drainage pattern:**	With open Channels, with grating
	Quantity of storm water:	0.211 m cum/sec
	Size of SWD:	400 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	355
	STP technology:	MBBR Technology (Moving Media Bio Reactor)
	Capacity of STP (CMD):	1 STP of capacity 195 KLD for Sale Building (No.1) and 1 STP of capacity 165 KLD for Composite Building (No.2)
	Location & area of the STP:	Location: Below Ground , Area of STP of Sale Building (No.1) - 153.64 sq.mt and area of STP of Composite Building (No.2) - 130.77 sq.mt.
	Budgetary allocation (Capital cost):	Rs. 174 Lakhs
	Budgetary allocation (O & M cost):	Rs. 10 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris material
	Disposal of the construction waste debris:	Debris material will be used for backfilling and leveling. Other will be disposed off as per rules and debris management.
Waste generation in the operation Phase:	**Dry waste:**	591 Kg/day
	Wet waste:	887 Kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	53 Kg/day
	Others if any:	Not applicable

SEAC-AGENDA-0000000054

Mode of Disposal of waste:	**Dry waste:**	Wastes will be handed over to authorized agency
	Wet waste:	Wastes will be composting
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	100 sq.mt.
	Area for machinery:	6 sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 22 Lakhs
	O & M cost:	Rs. 2 Lakhs

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

SEAC-AGENDA-000000054

43.Green Belt Development	**Total RG area :**	1322.75 sq.mt. (RG on the Ground - 827.75 sq.mt and RG on the Podium - 495 sq.mt)
	No of trees to be cut :	12
	Number of trees to be planted :	117 nos.
	List of proposed native trees :	Neem, Bhava, Shirish, Kunti, Kadamb, Sita Ashoka, Apta, Fish tail palm, Mango
	Timeline for completion of plantation :	3 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Caryota urens	Fish tail palm	8	Tall evergreen tree
2	Azadirachta indica	Neem	10	Large tree, good for roadside plantation
3	Cassia fistula	Bhava	12	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant
4	Albizia lebbeck	Shirish	14	Shady tree, yellowish green fragrant flowers
5	Murraya paniculata	Kunti	9	Small tree, Fragrant white flowers, Butterfly host plant
6	Anthocephalus cadamba	Kadamb	17	Shady tree, large deciduous tree, fast growing graceful tree, ball shaped flowers
7	Saraca asoka	Sita Ashok	34	Shady tree with red yellow flowers
8	Mangifera indica	Mango	5	Fruits bearing tree
9	Bauhinia racemosa	Apta	8	Small tree with small white flowers, butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000054

Power requirement:	**Source of power supply :**	M/s. Reliance Energy
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	150 KW
	During Operation phase (Connected load):	10378 KW
	During Operation phase (Demand load):	3687 KW
	Transformer:	Sale Building (No.1) - 2 Nos. x 1500 KVA and Composite Building (No.2) - 2 Nos. x 1000 KVA
	DG set as Power back-up during operation phase:	1 No. of DG set of capacity 825 KVA for Sale Building (No.1) and 1 No. of DG set of capacity 630 KVA for Composite Building (No.2)
	Fuel used:	Diesel (HSD)
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

• All lifts and pumps are proposed on VFD drives which results in 20% saving in consumption.
• All internal common area lighting are proposed to work on high energy efficient lamps (CFL) as specified in bureau of energy efficiency, which again results in saving in general consumption. The LPD is working less than 1W/m2 but still achieving the required 200LUX for ambient lighting
• 20% of the external lighting is proposed on solar. These are set of lighting which are placed at critical junction

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	External lighting on solar	S- 9636 KWH ,C-9636 KWH
2	Lifts will be with VFD drives and soft starters,	S- 169703 KWH ,C-197987KWH
3	Common Area Lighting Load	S- 50129 WH ,C-50129 KWH
4	Ventilation & Exhaust Fan Load	S- 40517 KWH ,C-39988 KWH

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 53 Lakhs
	O & M cost:	Rs. 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	Environmental Monitoring	Air, Noise, Water, Biological	3

SEAC-AGENDA-10000000054

2	Sanitary Facility and Waste Water Management	Waste water	3
3	Solid Waste Management	Waste	2
4	Occupational Health and safety	Medical Checkup, PPE & First Aid Kit	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	Sewage Treatment Plant	1 STP of capacity 195 KLD and 1 STP of 165 KLD	174	10
2	Rain Water Harvesting System	1 RWH tank of capacity 40 Cum and 1 RWH tank of capacity 30 Cum	20	2
3	Solid Waste Management	OWC, Manpower, Colored Dustbins etc	22	2
4	Green Belt Development	RG area -1322.75 sq.mt, Tree plantation-117 nos.	18	2
5	Energy Saving Measures	...	53	2
6	Air Exhausting System	...	50	2
7	DMP	...	348.43	11.1

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:	1 no.

SEAC-AGENDA-000000054

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Sale Building (No. 1) - 2 nos podiums with area 3520.86 sq.mt and Composite Building (No. 2) - 2 nos podiums with area 2634.92 sq.mt
	Total Parking area:	10532.01 sq.mt
	Area per car:	Podium -34.86 sq.mt. and Ground - 28.20 sq.mt.
	Area per car:	Podium -34.86 sq.mt. and Ground - 28.20 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	156 nos.
	Number of 4-Wheelers as approved by competent authority:	545 nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	12.20 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 a (B2) category
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-11-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC AGENDA-000000054

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Ressidential cum Commercial Project at Village: Panchpakhadi, Thane By Raymond Limited

Is a Violation Case: No

1.Name of Project	Raymond Limited
2.Type of institution	Green Building
3.Name of Project Proponent	Mr. Abhishek Kapoor, Raymond Limited
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Residential cum Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Proposed development on plot bearing S. no. 122, 126B1/1,2,3,4, 126 B2, 127, 128B, 129/1, 3, 131B, 62B3 of Village Panchpakhadi, Tal. & Dist. Thane
9.Taluka	Thane
10.Village	Panchpakhadi
Correspondence Name:	Mr. Abhishek Kapoor, Raymond Limited
Room Number:	Realty Division
Floor:	Ground Floor
Building Name:	JKFT Building
Road/Street Name:	Pokhran Road No. 1
Locality:	Jekegram, Thane
City:	Thane
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Approval is under process with Thane Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Under Process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	72997.80
16.Deductions	17642.42
17.Net Plot area	55355.38
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 78417.45
	b) Non FSI area (sq. m.): 211582.55
	c) Total BUA area (sq. m.): 290000
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)	36498.9
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50.04
21.Estimated cost of the project	8500000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000054

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Affordable Buildings - (Wing A, B, C)	St + 1 to Upper 41 Floors	133.25
2	Affordable Buildings - (Wing D,E)	St + 1 to 6 Upper Floors	24.75
3	Affordable Buildings - (Wing F,G,H,J,K)	St + 1 to 2 Upper Floors	12.35
4	Retail Wing	B + Gr + 1st Floor	8.89
5	Premium Buildings (Wing A)	Gr + 4P + St + 1 to 42 Floors	185.92
6	MLCP Building	2B + Gr + 4 Podium	11.60
7	EWS Building	B + Gr + 1 to 19 upper floors	58.35

23.Number of tenants and shops	EWS: 184 Nos.; Plot A - Affordable Housing: 1035 Nos. ; Plot B - Premium Housing: 78 Nos. Retails building for commercial use
24.Number of expected residents / users	6512
25.Tenant density per hectare	930
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	40 m wide Pokhran Road No. 1 & 2 ; 30 m 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	Minimum 9m
29.Existing structure (s) if any	Major land is vacant except old staff quarter building
30.Details of the demolition with disposal (If applicable)	5000 m3

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

SEAC-AGENDA-000000054

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	584
	Recycled water - Flushing (CMD):	292
	Recycled water - Gardening (CMD):	159
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	882
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	336
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	356
	Recycled water - Flushing (CMD):	292
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	882
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	495
Details of Swimming pool (If any)	2 swimming pools (25 X 50 m and 12 X 25 m)	

33.Details of Total water consumed

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

SEAC-AGENDA-000000054

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2-3 m
	Size and no of RWH tank(s) and Quantity:	3 Nos. of RWH tanks of total 460 KL capacity will be provided
	Location of the RWH tank(s):	below ground
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	105.8 lakh
	Budgetary allocation (O & M cost) :	10.6 lakh/yr
	Details of UGT tanks if any :	Yes, Under ground tanks area provided
35.Storm water drainage	**Natural water drainage pattern:**	Natural slope towards South Side
	Quantity of storm water:	0.58 m3/sec
	Size of SWD:	600 mm wide drain channel
Sewage and Waste water	**Sewage generation in KLD:**	818
	STP technology:	SBR
	Capacity of STP (CMD):	3 STP's with total 1000 KL capacity
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	200 Lakh
	Budgetary allocation (O & M cost):	40 Lakh/yr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	8430 m3
	Disposal of the construction waste debris:	Will be used at site for back filling, land leveling purpose.
Waste generation in the operation Phase:	**Dry waste:**	1299 kg/d
	Wet waste:	1949 kg/d
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	8 kg/d
	Others if any:	Not Applicable

SEAC-AGENDA-000000054

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorised vendor
	Wet waste:	Mechanical Composting on site
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure on site after treating in composting unit
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	120 m2
	Area for machinery:	65 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	80 Lakh
	O & M cost:	32 Lakh/yr

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		

SEAC-AGENDA-0000000054

43.Green Belt Development	**Total RG area :**	31712.65
	No of trees to be cut :	Existing trees on site:550; Trees to be cut: 250 (subabhul); remaining 300 Nos. will be transplanted
	Number of trees to be planted :	1662
	List of proposed native trees :	attached below
	Timeline for completion of plantation :	2-3 years after commensement 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	149	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	135	Large tree, good for roadside plantation
3	Alstonia scholaris	Satwin	158	Shady Tree, white fragrant flowers
4	Pongamia pinnata	Karanj	147	Shady tree.
5	Saraca asoka	Sita Ashok	139	Shady tree with red-yellow flowers.
6	Bombax ceiba	Katesavar	148	Large tree, red flowers.
7	Anthocephallus cadamba	Kadamb	169	Shady, large tree, ball shaped flowers.
8	Cassia fistula	Bahava	142	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
9	Nyctanthes arbor-tristis	Parijatak	176	Small deciduous fast growing tree, beautiful flowrers
10	Lagerstroemia flos-regineae	Tamhan	154	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
11	Michelia champaca	Son Chafa	145	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000074

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	500 kVA
	During Operation phase (Connected load):	25 MW
	During Operation phase (Demand load):	11 MW
	Transformer:	13 X 1250; 1 X 1600; 1 X 750 kVA
	DG set as Power back-up during operation phase:	5910 kVA (7 X 630; 2 X 750)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

- Efficient wall systems like solid blocks with fly ash content
- Energy efficient lighting using CFLs in flats and LEDs in Lift Lobby, Toilets & Core area Passages
- Use of high energy efficient pumps for fire fighting, UG tanks and STP
- Solar Street lights are proposed for common areas such as open spaces, pathways, RG etc.
- Solar Hot Water system (Top 5 floors only)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving	>20%
2	Total energy saving from renewable component	>15%

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:**	100 Lakh
	O & M cost:	5 Lakh/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	12
2	Site sanitation and potable water supply to labour	-	18

SEAC-AGENDA-0000000054

3	Environmental Monitoring	-	4
4	Health check up and first aid	-	9
5	Safety personal protective equipment	-	20
6	Traffic management	-	7
7	safety nets	-	35
8	Storm water management	-	12
9	tyre cleaning and vehicle maintenance	-	5
10	solid waste management & site maintenance	-	5
11	safety training to workers	-	8
12	Disinfection	-	4

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	Continuous O & M	200	40
2	Solar System	Weekly	100	5
3	RWH	During rainy season	105.8	10.6
4	Solid waste composting plant	Continuous O & M	80	32
5	Landscape Development	Daily	124.7	18.7
6	Environmental Monitoring	As per CPCB guidelines	-	4

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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:	2 No. of Junction at Pokhran Road No. 1 and 2

SEAC-AGENDA-0000000054

Parking details:	**Number and area of basement:**	MLCP: 2 Basements; Retail: 1 Basement, EWS: 1 Basement (Total Basement area: 35,879.99 m2)
	Number and area of podia:	MLCP: 4Podium; Premium: 4 Podium (Total podium area: 50,863.99 m2)
	Total Parking area:	86761.98 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	2898 Nos.
	Number of 4-Wheelers as approved by competent authority:	2276 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	SGNP: 1.66 km
	Category as per schedule of EIA Notification sheet	8(b)
	Court cases pending if any	No
	Other Relevant Informations	We have applied to MoEF for PEC and ToR was issued by MoEF vide letter No. 21-227/2017-IA-III dated 14.08.2017 Copy of TOR letter is enclosed.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-06-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC AGENDA-000000054

PP submitted their application for Environement Clearance for total plot area of 72997.80 Sq. Mtrs, BUA of 290000 Sq. Mtrs and FSI area of 78417.45 Sq. Mtrs. PP proposes to construct of 3 affordable buildings, Retail wings, Premium Building, MLCP Building & EWS Building, having maximum height of 185.92 mtr.

MoEF has given TOR's to the project on dated 14/08/2017. Now PP has submitted the EIA report.

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

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to submit the NOC of HRC.
3) PP to use excess treated water to developed RG abutting to the plot with proper irrigation facility.
4) PP to explore possibility of use of biodegradable waste for bio energy/ bio gas production.
5) PP to provide oil and sand trap in parking building and provide connection of the same to STP.
6) PP to make the building plastic free zone.
7) PP to obtain NOC of CFO.
8) PP to upload revised CS for the full potential of the project. And also upload revise building layout plan, EIA report prepare as per the TOR issued by EAC.
9) PP to provide slope of the ramp 1:12 with intermittent flat points
10) PP to provide Air purification system in addition to mechanical ventilation in the basement.
11) PP to clearly indicate fire tender movement for building A,B and C.
12) PP to ensure that MLCP building is not compromising RG on ground and it should be with internal safety measures.
13) PP to ensure that propose construction will not flood area surrounding the project and submit measures undertaken for the same.
14) Shadow analysis shows that sum areas having light less than 100 lux. PP to incorporate the measures to increase the light and ventilation.
15) PP to submit detail of the plan proposed for CSR under this project.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Application for Environmental Clearance of Proposed Residential Redevelopment of J K Project at C-T S NO. 1552, Girgaurn Division Gamdevi, Harishchandra Goregaonkar Road, Mumbai by Floreat Investment Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	â??J K PROJECTâ??
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sreeram Kuppa,Director, Floreat investment Pvt. Ltd. 70,Nagindas Master Road, Fort Mumbai 400 023
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd. Mr. H. K Desai B-1003,Enviro House, 10th floor, Western Edge -II Western Express Highway, Borivali (E), Mumbai- 400 066 hkdesai5@gmail.com,; info@eaepl.com
5.Type of project	Residential Redevelopment Project under DCR 33(7) of MCGM
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. 1552,Girgaum Division Gamdevi, Harishchandra Goregaonkar Road ,Mumbai
9.Taluka	mumbai
10.Village	Girgaum
11.Area of the project	MCGM (Municipal Corporation of Greater Mumbai)
12.IOD/IOA/Concession/Plan Approval Number	IOD in process
	IOD/IOA/Concession/Plan Approval Number: IOD in process
	Approved Built-up Area: 00000
13.Note on the initiated work (If applicable)	3 nos of buildings are constructed before 2004 ,Sterling Rehab A-Basement + (Pt.) Stilt + 2 upper podiums + 2 upper floors,, Sterling Rehab B-Basement + (Pt.) Stilt + 2 upper podiums + 28 upper floors, JK Rehab A-B-Basement + Ground + 29 floors
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA NOC dated 18.06.2015 and 20.07.2015 for 50% Incentive FSI on total Rehab Area
15.Total Plot Area (sq. m.)	7803.01
16.Deductions	1061.63
17.Net Plot area	6741.38
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19,783.30
	b) Non FSI area (sq. m.): 28,639.02
	c) Total BUA area (sq. m.): 48,422.32
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)	3433.32
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.44 %
21.Estimated cost of the project	2430000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing D1 & D2 (Rehab)	1 Basement + Ground Floor + 3 Podium + 1 Service Floor + 22 Residential Floors	67.50 Mtr

SEAC AGENDA 0000000054

2	Wing E (Sale + Rehab)	1 Basement + Ground Floor+ 1 to 19 Podium Floors + 2 nos of Fire Check & Service Floors + 2 Club house Floors + 26 Residential Floors	174.70 Mtr

23.Number of tenants and shops	Rehab = 238 no's Sale = 45 no's shops = 58 no's
24.Number of expected residents / users	Rehab = 1190 no's Sale = 225 no's Shops = 174 no's
25.Tenant density per hectare	690 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)	18.30 harishchadra goregaonkar marg
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.50 m
29.Existing structure (s) if any	Sterling Rehab A Basement + (Pt.) Stilt + 2 upper podiums + 2 upper floors Sterling ,Rehab B-Basement + (Pt.) Stilt + 2 upper podiums + 28 upper floors JK ,Rehab A-B-Basement + Ground + 29 floors
30.Details of the demolition with disposal (If applicable)	Existing chawls to be demolished . Debris (concrete/bricks /Flooring etc) -2500 cum - Will be managed as per debris management plan

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

SEAC-AGENDA-000000054

Dry season:	**Source of water**	MCGM / treated water from STP
	Fresh water (CMD):	130
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	.
	Total Water Requirement (CMD) :	201
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	83
Wet season:	**Source of water**	MCGM/RWH/ treated water from STP
	Fresh water (CMD):	130
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	.
	Total Water Requirement (CMD) :	198
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	86
Details of Swimming pool (If any)	--	

33.Details of Total water consumed

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

SEAC-AGENDA-000000054

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.1 m â?? 2.4 m bgl
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	existing well to be used
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	5 lakhs
	Budgetary allocation (O & M cost) :	0.5 lakhs
	Details of UGT tanks if any :	Domestic Water Tank- Rehab-100 Kl Sale- 40KL Flushing Water Tank -Rehab-50 Kl Sale- 20KL Fire Water Tank Rehab-150 Kl Sale- 250 KL
35.Storm water drainage	**Natural water drainage pattern:**	West to east
	Quantity of storm water:	0.144 cum/sec
	Size of SWD:	450 mm X 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	154
	STP technology:	MBBR
	Capacity of STP (CMD):	Rehab- 130 KLD Sale- 50 KLD
	Location & area of the STP:	Basment
	Budgetary allocation (Capital cost):	20 lakhs
	Budgetary allocation (O & M cost):	3 lakh/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Top soil- 500 cum, Excavated material- 6550 cum, Cement Bags- 820 bags , Paint container (@20L)-350 cans
	Disposal of the construction waste debris:	Top soil To be preserved for landscaping, Excavated material Shall be used entirely on site for backfilling and for internal roads.
Waste generation in the operation Phase:	**Dry waste:**	313 kg/day
	Wet waste:	438 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	5 kg/day
	Others if any:	Not applicable

SEAC-AGENDA-000000054

Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / 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 a manure
	Others if any:	Not applicable
Area requirement:	**Location(s):**	ground
	Area for the storage of waste & other material:	35 sqm
	Area for machinery:	5 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30 lakhs
	O & M cost:	6 lakhs

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			

SEAC-AGENDA-000000054

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	549.98 Sqm (8.15%)
	No of trees to be cut :	.
	Number of trees to be planted :	28 nos
	List of proposed native trees :	same as below
	Timeline for completion of plantation :	by the time 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	Mimusops elengii	Bakul	12	ornamental tree
2	Cassia fistula	Amaltas	10	ornamental tree
3	Michelia champaca	Son chapha	6	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:

Serial Number	Name	C/C Distance	Area m2
1	Nyctanthus arbortristis	2m	.
2	Thevetia nerifolium	2m	.
3	Lagerstromia indica	2m	.
4	Bougainvilleaa spp	2m	.
5	Pisonia alba	2m	.
6	Hamelia patens	2m	.
7	Alpinia zurumbet	2m	.
8	Limonica spectabilis	2m	.
9	Murayya exotica	2m	.
10	Gardenia jasminoid	2m	.
11	Ixora parviflora	2m	.
12	Cestrum nocturnum	2m	.
13	Hibiscus rosa sinensis	2m	.
14	Tabernaemontana coronaria	2m	.
15	Mussanada	2m	.
16	Nerium oleander	2m	.

47.Energy

SEAC-AGENDA-0000000054

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	80 KW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	Rehab -1383 kW Sale- 1971 kW
	During Operation phase (Demand load):	ehab -787kW Sale-1011kW
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Rehab -1 x 500 kVA Sale-1 x 750 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Use of T-5 Fittings (28 w) and Electronic ballasts instead of Fluoroscent Light fittings (40w) and copper ballasts.
use of BEE FIVE star certified appiance
Use of BEE Certified Motors
Use of Group controls and Variable speed drives.
Use of LED fittings (18 w) and Electronic ballasts instead of Fluoroscent Light fittings (40w) and copper ballasts.
Daylight based controls + LED light fitting to be consider instead of convectional fittings
use of EFF-1 motors for fans & Pumps.
Use of LED Fittings (14 w) and Electronic ballasts instead of Fluoroscent Light fittings (40w) and copper ballasts.
Use of CO sensors and VFD Fans

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total% Savings of rehab	24.8
2	Total% Savings of Sale	23.9

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:**	50 lakhs
	O & M cost:	3 lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000054

1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	3
2	Noise Environment	Noise Baricades and Green Belt Developments	2
3	Water Environment	Modular STP , Drainage with sedimentation tanks	3
4	Good Health Practices	Site Sanitation & Health Care	3
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	solid waste management	OWC	30	6
2	waste water mangement	STP	20	3
3	splar savings	Energy	50	3
4	RWH system	RWH system	5	0.5
5	Green belt	Landscaping	15	3

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:	18.30 m wide harishchandra goregaonkar road

SEAC-AGENDA-0000000054

Parking details:	**Number and area of basement:**	Wing D -1 no ; Area = 1307.45 sq.m
	Number and area of podia:	Wing D -3 nos. Area = 2993.41 sq.m.,Wing E -19 nos. Area = 11912.25 sq.m
	Total Parking area:	.
	Area per car:	Wing D-â?¢ Podium â?? 21.44 sqm â?¢ Basement- 33.19 sqm, wing E-â?¢ Podium â?? 35.95 sqm
	Area per car:	Wing D-â?¢ Podium â?? 21.44 sqm â?¢ Basement- 33.19 sqm, wing E-â?¢ Podium â?? 35.95 sqm
	Number of 2-Wheelers as approved by competent authority:	.
	Number of 4-Wheelers as approved by competent authority:	Wing D-154, wing E-180
	Public Transport:	not applicable
	Width of all Internal roads (m):	6.00 m wide
	CRZ/ RRZ clearance obtain, if any:	not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	not applicable
	Category as per schedule of EIA Notification sheet	category B2 8(a)
	Court cases pending if any	not applicable
	Other Relevant Informations	not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-06-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC AGENDA-000000054

PP submitted their application is for prior Environmental Clearance on total plot area of 7803.01 Sq. mtrs, total BUA of 48422.32 Sq. mtrs. and FSI area of 19783.30 Sq. mtrs. PP proposes to construct 2 number of Residential buildings with 3 wings having maximum height of 174.70 mtrs..

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

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to revise consolidated statement in respect of point no.13 i.e. as existing structures on plots before 2004, construction not initiated. & point no.22 i.e. building configuration and Height of buildings.
3) PP to submit agreement between Rehab and Sale building regarding common use of environmental facilities and RG area.
4) PP to submit HRC NOC for wing E.
5) PP informed that rehab component was built before 2004, PP to explore possibility to provide environmental facilities like STP, OWC to the Rehab building.
6) PP informed that STP is provided in basement with vent open to the air. PP to provide mechanical ventilation and air purifier in the basement.
7) PP to submit sewer line layout up to the final point of disposal of existing building and proposed building.
8) PP to provide oil and sand trap for storm water drain.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Building & Construction Project

Is a Violation Case: No

1.Name of Project	Arihant Vatika Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Nimesh Shah
4.Name of Consultant	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	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.NO.67 H.NO.6/1, S.NO.67 H.NO.6/2, S.NO.67 H.NO.4/5+6/4, S.NO.67 H.NO.5, S.NO.67 H.NO.3/7, S.NO.67 H.NO.3/8, S. NO.68, S.NO.69 H.NO.1, S.NO.4 H.NO.A/1
9.Taluka	Ambernath
10.Village	Juveli
11.Area of the project	Yes
12.IOD/IOA/Concession/Plan Approval Number	BuildinG permission
	IOD/IOA/Concession/Plan Approval Number: 1298-261 Dated: 23.02.2015
	Approved Built-up Area: 21509.26
13.Note on the initiated work (If applicable)	About 19355.42 sq.m has constructed at site as per previous Approval.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	22751.72
16.Deductions	2001.51
17.Net Plot area	19396.45
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21161.84
	b) Non FSI area (sq. m.): 30542.95
	c) Total BUA area (sq. m.): 51704.79
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)	8250.25
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32
21.Estimated cost of the project	480000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	04 Residential Building	ST + 7	23.45
2	01 Residential Building	St + 12	37.35
3	01 Club House	G +1	4.20

23.Number of tenants and shops	No of Tenements : 620 No No of Shops : 30 No

SEAC-AGENDA-000000054

24.Number of expected residents / users	3100
25.Tenant density per hectare	300
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6.0 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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal source
	Fresh water (CMD):	186
	Recycled water - Flushing (CMD):	93
	Recycled water - Gardening (CMD):	30
	Swimming pool make up (Cum):	06
	Total Water Requirement (CMD) :	315
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	05
	Excess treated water	77

SEAC-AGENDA-000000054

Wet season:	**Source of water**	Municipal source
	Fresh water (CMD):	186
	Recycled water - Flushing (CMD):	93
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	06
	Total Water Requirement (CMD) :	285
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	05
	Excess treated water	107
Details of Swimming pool (If any)	Dimension of swimming Pool: 22.50 m X 7.50 m	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8-10 m
	Size and no of RWH tank(s) and Quantity:	25, 25 & 50 cum
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	05
	Size of recharge pits :	1 x 1 x 1.5 m
	Budgetary allocation (Capital cost) :	15
	Budgetary allocation (O & M cost) :	0.25
	Details of UGT tanks if any :	yes

35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	0.49 cum/sec
	Size of SWD:	700 mm wide x 1500 mm

SEAC-AGENDA-000000054

Sewage and Waste water	**Sewage generation in KLD:**	223
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	01 x 250 KLD
	Location & area of the STP:	Ground & 185.00 sq.m
	Budgetary allocation (Capital cost):	55.0
	Budgetary allocation (O & M cost):	6.5

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	250 kg/day
	Disposal of the construction waste debris:	Low lying & making of internal road.
Waste generation in the operation Phase:	**Dry waste:**	460 kg/day
	Wet waste:	700 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	15 Kg
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Segregated/Sale/Collected by local authority
	Wet waste:	Composting through OWC
	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:	42.50 sq.m
	Area for machinery:	10.0 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	6.50
	O & M cost:	2.25

37.Effluent Charecterestics

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

SEACAGENDA-000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1932.77 sq.m
	No of trees to be cut :	00
	Number of trees to be planted :	250
	List of proposed native trees :	yes
	Timeline for completion of plantation :	Dec 18

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	05	Provides shade, edible fruits
3	Mango	Amba	10	Provides shade, edible fruits
4	Polyalthia	Ashok	70	Evergreen tree helps in controlling noise pollution
5	Nyctanthus arbor	Parijatak	20	It's a Shrub/tree with fragrant flowers
6	Butea monosperma	Flame tree	20	Used in pesticide & dye preparation
7	Mimusopes elengi	Bakul	20	Evergreen tree, timber yielding and medicinal plant

SEAC-AGENDA-0000000054

8	Roystonea regia	Royal palm	50	Nitrogen fixer, ornamental plant
9	Azardiractha indica	Neem	20	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

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	300 KVA
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	2800 KVA
	During Operation phase (Demand load):	1550 KVA
	Transformer:	2000 KVA X 2
	DG set as Power back-up during operation phase:	250 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 15.20 % 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:**	55
	O & M cost:	0.25

SEAC-AGENDA-0000000054

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	STP	pH, BOD, COD etc.	55
2	RAIN WATER HARVESTING	NA	15
3	SOLID WASTE MANAGEMENT	PH, NPK	6.25
4	ENERGY SAVING MEASURES	LED, Solar Energy	55
5	Green Belt	plantation	10

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	pH, BOD, COD etc.	55.0	6.50
2	RAIN WATER HARVESTING	NA	15.0	0.25
3	SOLID WASTE MANAGEMENT	PH, NPK	6.25	2.25
4	ENERGY SAVING MEASURES	LED, Solar Energy	55	0.25
5	Green Belt	plantation	10	0.50

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

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

SEAC-AGENDA-0000000054

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	16542.062 sq.m
	Area per car:	24.50sq.m
	Area per car:	24.50sq.m
	Number of 2-Wheelers as approved by competent authority:	647
	Number of 4-Wheelers as approved by competent authority:	90
	Public Transport:	Bus Stop
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 a (B1)
	Court cases pending if any	NA
	Other Relevant Informations	We have submitted online application on dated 29/06/2016. our online file no is F.No.- SEIAA/2016/II/CR79/TC-3.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	29-06-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC AGENDA-000000054

PP submitted their application is for prior Environmental Clearance on total plot area of 22751.72 Sq. mtrs, total BUA of 51704.79 Sq. mtrs. and FSI area of 21161.84 Sq. mtrs. PP proposes to construct 5number of Residential buildings having maximum height of 37.35 mtrs& Club House.

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

PP informed that construction of 19355.42 Sq.mtrs is completed on sites. And now increase in plot potential is due to amalgamation of the plots. It was also informed that environmental facilities will be provided to existing construction also. Green zone reservation has also been excluded by the PP. PP also agreed to ensure drinking water supply till the time regular water supply from MJP.

DECISION OF SEAC

After deliberation, committee decided to recommend the proposal for Environmental clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

1) PP to revised Consolidated Statement reflecting correct number of buildings, configuration, FSI area, Non FSI area, Total Built-up area, and upload IOD details.
2) PP to ensure that STP is of adequate capacity with to achieve BOD of 5 milligram per litter. PP to submit agreement with farmers for utilization of excess treated water as there is no sewer line near the project and accordingly revise the EMP.
3) PP and local body to ensure that no occupation is given till the time sustainable water supply and drainage system is completed.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for RESIDENTIAL BUILDING PROJECT

Is a Violation Case: No

1.Name of Project	Implementation of Slum Rehabilitation Scheme (SRA) and construction of Residential Buildings.
2.Type of institution	Private
3.Name of Project Proponent	Implementation of Slum Rehabilitation Scheme (SRA) and construction of Residential Buildings.
4.Name of Consultant	AQURA ENVIRO PROJECTS PRIVATE LIMITED
5.Type of project	Slum Rehabilitation Scheme
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	Earlier EC Letter vide no. SEAC-3512/CR-436/TC-II dated 25.03.2014
8.Location of the project	CTS No. E/86/12 & E/99A of village Bandra, Tal. Andheri, M.S.D., Dr. Ambedkar Road & 13th Road, Khar (West), Mumbai â?? 400 052
9.Taluka	BANDRA
10.Village	BANDRA
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Revised LOI u/no. SRA/ENG/1107/HW/PL/LOI, dated 23/11/2016.
	IOD/IOA/Concession/Plan Approval Number: Revised LOI u/no. SRA/ENG/1107/HW/PL/LOI, dated 23/11/2016.
	Approved Built-up Area: 44489.68
13.Note on the initiated work (If applicable)	The construction work started as per obtained prior Environmental Clearance obtained vide no. SEAC-3512/CR-436/TC-II dated 25.03.2014
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Revised LOI u/no. SRA/ENG/1107/HW/PL/LOI, dated 23/11/2016.
15.Total Plot Area (sq. m.)	6951.10
16.Deductions	301.00
17.Net Plot area	6650.10
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19,785.13
	b) Non FSI area (sq. m.): 22115.11
	c) Total BUA area (sq. m.): 44489.68
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)	1,550.22
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23
21.Estimated cost of the project	290000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Composite Bldg. No.1	Stilt + 1st to 18 & 19(pt.) floors	59.45 m
2	Sale Bldg. No. 2 : Wings A & B	3 Level Basement + Gr(Pt.) + Stilt (Pt.) + Podium + Service Floor + 1st to 18th floors	69.70 m

23.Number of tenants and shops	179 (170 Residential + 4 Commercial + 5 Amenity Units including Balwadi, Welfare Centre, Society Office & Fitness Centre)

SEAC-AGENDA-0000000054

24.Number of expected residents / users	Composite Bldg. No.1: 360 Nos. Sale Bldg. No. 2: Wings A & B : 490 Nos Floating Population :45 Nos. TOTAL: 895 Nos.
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9.00 m. to 18.30 m.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	77.5
	Recycled water - Flushing (CMD):	39.6
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	15
	Total Water Requirement (CMD) :	117
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	40

SEAC-AGENDA-0000000054

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	7.8
	Recycled water - Flushing (CMD):	39.6
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	15
	Total Water Requirement (CMD) :	117
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	40
Details of Swimming pool (If any)	NOT APPLICABLE	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 - 3.5 m
	Size and no of RWH tank(s) and Quantity:	Size: 69.7 cum, No. of RWH tank(s): 2 Nos., Quantity: 69.7 cum
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	700,000/-
	Budgetary allocation (O & M cost) :	45,000 per annum
	Details of UGT tanks if any :	Domestic Water tank: 77,175 Flushing Water tank: 36,600 Lit Fire Fighting Water tank: 200,000 Lit Rain Water Harvesting Tank: 69,700 Lit

SEAC-AGENDA-0000000054

35.Storm water drainage	**Natural water drainage pattern:**	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:	0.17 cum/sec (considering 1354.15 m2 RG area (0.6 â?? runoff coefficient) and 5827.81 m2 as Paved area (0.9 â?? runoff coefficient), 100 mm/hour of peak intensity
	Size of SWD:	2 drains of Width â?? 0.60 m, Hydraulic depth â?? 0.30 m
Sewage and Waste water	**Sewage generation in KLD:**	99.26
	STP technology:	Moving Bed Bioreactor (MBBR) Technology
	Capacity of STP (CMD):	1 No. 110 m3/day
	Location & area of the STP:	Location: 1st Basement Area: 55 Sq. m.
	Budgetary allocation (Capital cost):	40 Lacs
	Budgetary allocation (O & M cost):	6 lacs per annum

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 â??Construction and Demolition and De-silting Wasteâ?? (Management and Disposal) Rules 2006 at the designated site as directed by the MCGM.
Waste generation in the operation Phase:	**Dry waste:**	164.25 kg/day (considering 0.18 kg/day for residential user and 0.25 kg/day for commercial user)
	Wet waste:	238.5 kg/day (considering 0.27 kg/day for residential user and 0.20 kg/day for commercial user)
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	7 kg/day (Sludge generation from waste)
	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 at MCGM landfill sites.
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit â??Organic Waste Convertorâ?? (OWC) and the compost generated 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.
	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

SEAC-AGENDA-0000000054

Area requirement:	**Location(s):**	1st Basement
	Area for the storage of waste & other material:	20 Sq. m.
	Area for machinery:	15 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	16 Lacs
	O & M cost:	2 Lacs per annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

41.Source of Fuel	Not applicable
42.Mode of Transportation of fuel to site	Not applicable

SEAC-AGENDA-000000054

43.Green Belt Development	**Total RG area :**	1759.15 Sq. m.
	No of trees to be cut :	Nil
	Number of trees to be planted :	120
	List of proposed native trees :	120
	Timeline for completion of plantation :	After Construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	16	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
2	Erythrina indica	Pangara	7	Medium sized deciduous tree. Bright scarlet flowers.
3	Putranjiva roxburghii	Putranjiva	12	Medium sized evergreen tree,
4	Lagerstroemia flosregineae	Tamhan	8	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
5	Michelia champaca	Son chafa	8	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
6	Azadiracta indica	Neem	14	Large tree, good for roadside plantation
7	Albizia lebbeck	Shirish	7	Shady tree, yellowish green fragrant flowers
8	Butea monosperma	Palas	5	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
9	Mimosops elengi	Bakul	12	Shady tree, small white fragrant flowers
10	Ailanthus excelsa	Maharukh	12	Large tree, good for roadside plantation
11	Murraya paniculata	Kunti	5	Small tree, Fragrant white flowers, Butterfly host plant
12	Mangifera indica	Mango	11	Shady tree.
13	Pongamia pinnata	Karanj	10	Shady tree.
14	Bombax ceiba	Katesavar	11	Large tree, red flowers.
15	Saraca asoca	Sita Ashok	6	Shady tree with red-yellow 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	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

47.Energy

SEAC-AGENDA-0000000054

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	NOT APPLICABLE
	During Operation phase (Connected load):	3933 KW
	During Operation phase (Demand load):	877 KW
	Transformer:	NOT APPLICABLE
	DG set as Power back-up during operation phase:	Composite Bldg.- 1 No of 160 KVA, Sale Bldg.- 1 No of 600 KVA
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	NOT APPLICABLE

48.Energy saving by non-conventional method:

â?¢ Energy efficient LEDâ??s which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures
â?¢ Maintaining the power factor between 0.95 lag and unity for common area loads.
â?¢ Maintaining lighting power density as per ECBC standard in common areas and recreation facility.
â?¢ Astronomical switching of outdoor lighting.
â?¢ Proposing use of VFDâ??s (Variable Frequency Drive) for all motors used in lifts, plumbing, Firefighting system.
â?¢ Promo

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	COMMON AREA LIGHTING OF SALE BLD. , USE OF LED	41%
2	COMMON AREA LIGHTING OF SALE BLD. , 60% USE OF SOLAR	100 %
3	COMMON AREA LIGHTING OF COMPOSITE BLD. USE OF LED	41%
4	COMMON AREA LIGHTING OF COMPOSITE BLD. 60% USE OF SOLAR	100%
5	EXTERNAL LIGHTING OF SALE BUILDING, USE OF LED	41%
6	EXTERNAL LIGHTING OF SALE BUILDING, 40% USE OF SOLAR	100%
7	EXTERNAL LIGHTING OF COMPOSITE BUILDING, USE OF LED	40%
8	EXTERNAL LIGHTING OF COMPOSITE BUILDING, USE OF SOLAR	100%
9	GROUND FLOOR LIGHTING OF SALE BUILDING, USE OF LED	41%
10	PODIUM FLOOR LIGHTING OF SALE BUILDING	41%

SEAC-AGENDA-0000000054

11	BASEMENT FLOOR LIGHTING OF SALE BUILDING	41%
12	LIFT LOAD	20%
13	BASEMENT VENTILATION LOAD	25%

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:**	50,00,000
	O & M cost:	2,50,00

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	WATER	Drinking water	0.10
2	EHS	Sanitation	0.50
3	EHS	Health check up	0.50
4	AIR	Water for Dust Suppression	0.2

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	1 No. of STP with 110 KLD capacity	40	6
2	RWH System	2 Nos of tanks of 69.7 Cum capacity	7	0.45
3	Environmental Monitoring	6 Monthly analysis of air, water, noise, soil	0.5	1.10
4	Solid Waste Management	Organic Waste Converter	16	2
5	Solar Energy System	Solar PV panels	50	2.5
6	Landscaping	Plantation and Maintenance of 144 Nos of trees	88	8

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

SEAC-AGENDA-0000000054

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	None
Parking details:	**Number and area of basement:**	3 Basements with total area of 10062.98 Sq. m
	Number and area of podia:	1 Podium with area of 2707.40 Sq. m
	Total Parking area:	3631.94
	Area per car:	13.75
	Area per car:	13.75
	Number of 2-Wheelers as approved by competent authority:	59
	Number of 4-Wheelers as approved by competent authority:	392
	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	Not Applicable
	Category as per schedule of EIA Notification sheet	8 B
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-08-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

SEAC-AGENDA-000000054

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Proposed Residential Building

Is a Violation Case: No

1.Name of Project	Proposed Residential high-rise building on plot bearing CTS. No. 837 to 840 of Village Poisar, Samta Nagar, Kandivali (East), Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amit Thakkar
4.Name of Consultant	M/s Aqura Enviro Projects Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	plot bearing CTS. No. 837 to 840 of Village Poisar, Samta Nagar, Kandivali (East), Mumbai.
9.Taluka	Kandivali
10.Village	Poisar
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	SN. Bldg. No.3_IOD No. CHE / WS-II/0757/R/S/337(NEW)
	IOD/IOA/Concession/Plan Approval Number: SN. Bldg. No.3_IOD No. CHE / WS-II/0757/R/S/337(NEW)
	Approved Built-up Area: 114749.33
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SN. Bldg. No.3_IOD No. CHE / WS-II/0757/R/S/337(NEW)
15.Total Plot Area (sq. m.)	10449.00
16.Deductions	0
17.Net Plot area	10449.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 60393.33 (Including Fungible)
	b) Non FSI area (sq. m.): 54356.00
	c) Total BUA area (sq. m.): 114749.33
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)	6150.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	58.87
21.Estimated cost of the project	3155606850

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No 3: (Wing A)	Part basement + Ground Floor +1st to 6th Level Podium + 1 FCF + 1st to 37th Upper Floor.	143.50
2	Building No 3: (Wing B)	Part basement + Ground Floor +1st to 6th Level Podium + 1 FCF + 1st to 37th Upper Floor.	143.50

SEAC-AGENDA-0000000054

3	Building No 3: (Wing C)	Part basement + Ground Floor +1st to 6th Level Podium + 1 FCF + 1st to 37th Upper Floor.	143.50

23.Number of tenants and shops	Total Nos of Flat:- 690 Nos.
24.Number of expected residents / users	Not Applicable
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m & 12.20m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12m
29.Existing structure (s) if any	1 Building (G + 7) Structure
30.Details of the demolition with disposal (If applicable)	1 Building (G + 7) Structure

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):	320
	Recycled water - Flushing (CMD):	172
	Recycled water - Gardening (CMD):	0.6
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	492
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	381

SEAC AGENDA-0000000054

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	320
	Recycled water - Flushing (CMD):	172
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	492
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	382
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1 to 2m
	Size and no of RWH tank(s) and Quantity:	Size : 4.3 M X 2.8 M X 2.54 M, No Of RWH Tank: 3 Nos, Quantity 30 CMD Each Tank
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	20 Lakhs
	Budgetary allocation (O & M cost) :	50000
	Details of UGT tanks if any :	Domestic Water Tank:- 107 CMD for Each Wing (Wing A, B & C) Flushing Water Tank:- 57 CMD For Each Wing (Wing A, B & C) Fire Tank:- 500 CMD Rain Water Tank:- 3. CMD For Each Wing (Wing A,B & C)

SEAC-AGENDA-0000000054

35.Storm water drainage	**Natural water drainage pattern:**	SWD will be provided for drainage of storm water within plot.
	Quantity of storm water:	3.75 M3/Sec
	Size of SWD:	300mm Wide & 1:300 Slope.
Sewage and Waste water	**Sewage generation in KLD:**	423 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	3 nos 151 KLD Each
	Location & area of the STP:	Basement & 300 Sq.M.
	Budgetary allocation (Capital cost):	55.80 Lakhs
	Budgetary allocation (O & M cost):	5 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	33700 CUM & 100 to 200 Kg/Day
	Disposal of the construction waste debris:	The substratum removed will be used for back filling, leveling, and road construction as far as possible
Waste generation in the operation Phase:	**Dry waste:**	466 Kg/Day
	Wet waste:	1087 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	45 Kg/Day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Disposed to the Municipal waste collection system and recyclable waste to be taken away by private contractor for resale.
	Wet waste:	Treatment in Mechanical composting units provided at the ground level within the premises. The manure generated will be used for gardening.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	45 Kg/Day
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	70.63 Sq.M.
	Area for machinery:	45 Sq.M.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12.50 Lakhs
	O & M cost:	50,000
37.Effluent Charecterestics		

SEAC-AGENDA-000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	3408.83 Sq.M.
	No of trees to be cut :	59 Nos
	Number of trees to be planted :	177
	List of proposed native trees :	Neem, Sheesham,Devil Tree, Bel, Brown Salwood ,Tamhan & Queen Palms
	Timeline for completion of plantation :	6 Months after Completion RCC & Finishing Work of The Building.

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	20	Long in Height
2	Darbergia Sissoo	Sheesham	30	Long in Height
3	Alstonia Scholaris	Devil Tree	20	Long in Height

SEAC-AGENDA-0000000054

4	Angle Marmelos	Bel	20	----
5	Acasia Mangium	Brown Salwood	25	----
6	Lagersromia Thorelli	Tamhan	25	----
7	Syagrus romanzoffiana	Queen Palms	30	---
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	Crossandra infundibuliformis (Aboli)	2m	30
2	Hibiscus rosa-sinensis (Jaswand)	2m	30
3	Nerium Indicum (Kanher)	1.5	25

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	962.34 KW
	During Operation phase (Demand load):	578 KW
	Transformer:	Capacity -2 MVA X 3 Nos
	DG set as Power back-up during operation phase:	4 Nos of DG sets are provided:- 1) 3 nos of Capacity 275 KVA for Wing A,B & C 2) 1 Nos of Ca[pacity 500 KVA for Common Area
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Use of energy efficient lifts (VVVF Non gear lifts)
Use of Energy efficient/load sharing DG sets
Use energy efficient/low loss transformer
Provision of solar water heaters for 10 %units
Provision of solar power by PV panels
Provision of LED lamps instead of fluorescent lamps
Use of occupancy sensor for society office area lighting consumption and basement lighting
Use of Lux sensor for society office area lighting consumption
Use of TFT/LED monitors instead of CRT tube monitors for office area
Use of sleep mode option with TFT/LED monitors for office area
Use of energy efficient UPS
Provision of LED lamps instead of HPSVlMetal halide lamps and solar panels for street lighting
Provision ofT-5 lamps instead ofT-8 lamps and electronic ballast instead of copper ballast for basement lighting

49.Detail calculations & % of saving:

SEAC AGENDA-0000000054

Serial Number	Energy Conservation Measures	Saving %
1	Using Solar Hot Water for 40days considered	Total 10% saving on Solar & (On Total Building Load 4.20 % Saving)
2	Using VFD & APFC Pannel on Water Pumps	Total 40% saving on Pumps requirement
3	External Lighting By using Mh Lamps & LED lamps on Solar	Total 10% Saving on Light

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:**	1400000
	O & M cost:	50000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Environment	Drinking Water	1 Lakhs
2	Environment Health & Safety	Sanitation	2 Lakh
3	Environment Health & Safety	Health & Checkup	10 Lakh
4	Air Environment	Water For Dust Separation	3 Lakhs

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 & Network	3 nos of 117 KLD capacity	55.80	5
2	RWH System	3 Nos of Tanks having Capacity 30 CUM each	20.00	0.5
3	Solid Waste Management	Wet Waste - 1087 KG	12.50	0.5
4	Solar System (Solar Installation)	Solar PV Pannel for External Lighting & Hot Water	14.00	1
5	Environment Monitoring	6 Monthly Air, Water,Soil& Noise Analysis	0	5

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

SEAC-AGENDA-0000000054

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:	2 Nos
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	6 Nos of Podium & Area of Each podium :
	Total Parking area:	21270.00 Sq.M.
	Area per car:	14 Sq. M.
	Area per car:	14 Sq. M.
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	973 Nos
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6m, 9m & 12.20m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	1) Sanjay Gandhi National Park:- 1.5Km, 2) Aarey Colony:- 4 Km, 3) Gorai Creek :- 5.85 Km & Malad Creek:- 6.5 Km.
	Category as per schedule of EIA Notification sheet	8 a
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-01-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

SEAC AGENDA-0000000054

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 10449.00 Sq. mtrs, total BUA of 114749.33 Sq. mtrs. and FSI area of 60393.33 Sq. mtrs. PP proposes to construct 3 number of Residential buildings having maximum height of 143.50 mtrs..

During discussion Committee noticed that the project had earlier to Environment clearance dated 10/11/2014 and 17/07/2017 which is not mentioned in CS. Committee also noticed that as per earlier EC total construction area of the project is above 300000 Sq. Mtrs. As per notification dated 09/12/2016 the project having total construction area above 300000 Sq. Mtrs are not in purview of State level Environment Impact Assessment Authority (SEIAA) as on date. Therefor committee decided to defer the project. Further committee decided to warn PP, Consultant and architect of the project for hiding the facts and directed them to submit correct information of the project before the committee to avoid the legal action.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for complianceas above.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Application for Environment Clearance of proposed Commercial I.T Project at Thane

Is a Violation Case: No

1.Name of Project	OPAL SQUARE at Thane by Shuban Buildpro LLP POA Holder of chawla Steel Rolling Mills
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amit Arun Datar- Shuban Buildpro LLP POA Holder of chawla Steel Rolling Mills
4.Name of Consultant	Mahabal Enviro Engineers Private Limited, Plot No.F7, Road No.21, Wagle MIDC area, Near Ashida Electronics, Thane West 400604, Thane, Maharashtra
5.Type of project	Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No C1, Road No 01, Wagle Industrial Area, Thane (West)-400604
9.Taluka	Thane
10.Village	Thane
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate Issued from MIDC File No. MIDC/DE & PA - III/SPA/THN/C-1/IFMS-B48489/of 2016 dated 17.05.2016
	IOD/IOA/Concession/Plan Approval Number: Commencement Certificate Issued from MIDC File No. MIDC/DE & PA - III/SPA/THN/C-1/IFMS-B48489/of 2016 dated 17.05.2016
	Approved Built-up Area: 11726.11
13.Note on the initiated work (If applicable)	We have received the building approval from MIDC Thane for the construction area 19,571.94 sq. mt. (including FSI, Non-FSI And TDR) MIDC File No. MIDC/DE & PA 111/ SPA/ THN/ C-1/ IFMS-B 29724/ of 2016 Dated 29th April 2016.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	5,865 sq.mt
16.Deductions	0
17.Net Plot area	5,865 sq.mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 17,523 sq.mt
	b) Non FSI area (sq. m.): 12,284 sq.mt
	c) Total BUA area (sq. m.): 29,807 sq.mt
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)	2,401 sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41%
21.Estimated cost of the project	750000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1	4 podium + 13 Floors	69.81 m

23.Number of tenants and shops	Shops-9

SEAC-AGENDA-0000000054

24.Number of expected residents / users	1,859 no.
25.Tenant density per hectare	61/ ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide D.P road and open space for vehicular movement 12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
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	Not applicable	Not applicable	Not applicable	Not applicable

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	49
	Recycled water - Flushing (CMD):	42
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	91
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	40

SEAC-AGENDA-000000054

Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	49
	Recycled water - Flushing (CMD):	42
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	91
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	40
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.5 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Rs. 5 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.25 Lakh/ Year.
	Details of UGT tanks if any :	Domestic UG Tank Capacity: 74 m3/day Flushing UG Tank Capacity: 63 m3/day Fire UG Tank Capacity: 200 m3/day

SEAC-AGENDA-0000000054

35.Storm water drainage	**Natural water drainage pattern:**	as per Contour Level.
	Quantity of storm water:	0.172 m3 /Sec
	Size of SWD:	0.45m x 0.5m depth Trench
Sewage and Waste water	**Sewage generation in KLD:**	86 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of STP having Capacity 88 m3/day.
	Location & area of the STP:	Contanarised STP & STP Area 378 sq.mt
	Budgetary allocation (Capital cost):	Rs.20 lakh
	Budgetary allocation (O & M cost):	Rs.4.2 lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation quantity: 10,600 m3 and solid waste: 372 kg/day
	Disposal of the construction waste debris:	Excavated soil will used for leveling and back filling
Waste generation in the operation Phase:	**Dry waste:**	123 kg/day
	Wet waste:	223 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	1 kg/day
	Others if any:	Inert waste - 26 kg/day
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed of to recyclers.
	Wet waste:	Wet garbage will handed over to Municipal Corporation Collector Vehicles
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	E -Waste disposed of to recyclers.
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Not applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 0.5 lakh
	O & M cost:	Rs. 0.05 lakh/year

37.Effluent Charecterestics

SEAC-AGENDA-000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	275.34 m2.
	No of trees to be cut :	Not applicable.
	Number of trees to be planted :	20 nos.
	List of proposed native trees :	5 no.
	Timeline for completion of plantation :	1 to 2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca ashoka	Ashoka	4	Aeshetic
2	Grevillea robusta	Silver Oak	4	Aeshthetic
3	Swieteria macrophyla	Mahogani tree	4	Fruit bearing

SEAC-AGENDA-0000000054

4	Azadirachata indica	Neem	4	Medicinal and Shady
5	Samanea saman	Rain tree	4	Shady
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL.
	During Construction Phase: (Demand Load)	125 KVA.
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	3,514 KVA.
	During Operation phase (Demand load):	2,014 KVA.
	Transformer:	2 nos. x 1,010 KVA
	DG set as Power back-up during operation phase:	2 nos. x 1,010 KVA
	Fuel used:	As per requirement
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar street light in common Area.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED	> 1%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.7 Lakh
	O & M cost:	Rs.0.30 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)

SEAC-AGENDA-000000054

1	Water for Dust	pH, Colour, Odour, turbidity, Total hardness	0.05
2	Site Sanitation	Disinfection	0.2
3	Disinfection	Disinfection	0.02
4	Health Check up	Monthly	0.10
5	Personal Protective Equipments	Safety jacket, Safety shoes, Helmate, Belt	1.5
6	Landscape Set up	Soil and Water	0.10
7	Training and Awareness	Monthly	0.10
8	First Aid Facilities	First Aid Box	0.05
9	Environmental Monitoring	Air, Water, Soil and Noise Monitoring	2.4

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 having capacity 91 KLD	20	4.2
2	Water Treatment Plant	-	2.75	0.25
3	Landscape Development	RG Area	0.10	0.01
4	Solid Waste Composting	Composting	0.05	0.05
5	Rain water harvesting	Channelizing and maintenance of rain water harvesting	5	0.25
6	Storm Water Harvesting	Channelizing and maintenance of Storm water drainage line	9	0.09
7	Fire Fighting	Fire Extinguisher	65	0.75
8	Energy Conservation	Solar and LED Lighting	7	0.30
9	Environmental Monitoring	Air, Water, Noise and Soil	15	2.4

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

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

SEAC-AGENDA-000000000054

	Nos. of the junction to the main road & design of confluence:	1 no.
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	4 podium 6928.66 sq.mt
	Total Parking area:	5150 sq.mt
	Area per car:	2.5 x 5.0 m.
	Area per car:	2.5 x 5.0 m.
	Number of 2-Wheelers as approved by competent authority:	42 nos.
	Number of 4-Wheelers as approved by competent authority:	396 nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	Open space for Vehicular movement 12 m.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(b) B2.
	Court cases pending if any	Not applicable
	Other Relevant Informations	We have received the building approval from MIDC Thane for the construction area 19,572 m2 (including FSI, Non FSI & TDR) MIDC File no. MIDC/DE & PA-111/SPA/ THN/C-1I FMS- B29724 / of 2016 dated 29th April, 2016.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	07-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

SEAC-AGENDA-0000000054

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Expansion of Proposed Redevelopment of "New Shivshahi" at WorliShivshahi CHS and Shivaji Nagar Shivprerna CHS Ltd, Annie Besant Rd, Worli, Mumbai by M/s Wonder value Realty Developers PL.

Is a Violation Case: No

1.Name of Project	Expansion of Proposed Redevelopment of "New Shivshahi" at Worli Shivshahi CHS and Shivaji Nagar Shivprerna CHS Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr. Hasit Parikh
4.Name of Consultant	Mr. H. K. Desai
5.Type of project	Residential Redevelopment Project
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	C.S. No. 998(pt) & 999 (pt) of Worli Division, Dr. Annie Besant Road, Worli, Mumbai
9.Taluka	Mumbai
10.Village	Worli
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	YES
	IOD/IOA/Concession/Plan Approval Number: IOD no. EEBP/5652/GS/A. DATED 25/02/2015
	Approved Built-up Area: 30814
13.Note on the initiated work (If applicable)	3384.33 sqm of rehab is constructed as per EC received date 24th January, 2014 vide letter SEAC-2013/CR- 345/TC-l for construction area 1,18,007.23sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD no. EEBP/5652/GS/A. DATED 25/02/2015
15.Total Plot Area (sq. m.)	12325.78
16.Deductions	556.56
17.Net Plot area	11948.80
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 42017.56
	b) Non FSI area (sq. m.): 89968.35
	c) Total BUA area (sq. m.): 131957.79
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)	6033.60
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	51%
21.Estimated cost of the project	3600000000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Building No 1	Basement + St + 6 P+ amenity floor + 33 floors	140.85
2	Sale Building No 2	3 Basement + St + 9P+ amenity floor + 63 floors	236.95
3	Sale Building No 2	3 Basement + St + 9P+ amenity floor + 63 floors	236.95

SEAC-AGENDA-0000000054

23.Number of tenants and shops	Rehab Tenants : 194 no's Sale Tenants : 79 no's
24.Number of expected residents / users	Rehab : 970 no's ; Sale : 395 no's
25.Tenant density per hectare	221 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)	36.6 m wide Dr. Annie Besant road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00 m
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	Debris has already been disposed by covered trucks to the authorized sites with permission from MCGM.

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 / STP
	Fresh water (CMD):	Rehab : 87 KLD ; Sale : 36 KLD
	Recycled water - Flushing (CMD):	Rehab : 44KLD ; Sale : 18 KLD
	Recycled water - Gardening (CMD):	Rehab : K5 LD ; Sale : 5 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	Rehab : 136 KLD ; Sale : 59 KLD
	Fire fighting - Underground water tank(CMD):	Rehab : 300KLD ; Sale : 200 KLD
	Fire fighting - Overhead water tank(CMD):	Rehab: 300 KLD; Sale: 100 KLD
	Excess treated water	Rehab : 61 KLD ; Sale : 22 KLD

SEAC-II-EDA-0000000054

Wet season:	**Source of water**	MCGM / STP / RHW
	Fresh water (CMD):	Rehab : 87 KLD ; Sale : 36 KLD
	Recycled water - Flushing (CMD):	Rehab : 44 KLD ; Sale : 18 KLD
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	Rehab : 131 KLD ; Sale : 54 KLD
	Fire fighting - Underground water tank(CMD):	Rehab : 300KLD ; Sale : 200 KLD
	Fire fighting - Overhead water tank(CMD):	Rehab: 300 KLD; Sale: 100 KLD
	Excess treated water	Rehab : 66 KLD ; Sale : 27 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	0.7 m to 8.7 m
	Size and no of RWH tank(s) and Quantity:	Rehab: 70KLD ; Sale: 60 KLD
	Location of the RWH tank(s):	Ground level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs 65 Lakhs
	Budgetary allocation (O & M cost) :	Rs 3 Lakhs /Annum
	Details of UGT tanks if any :	Domestic Tank: 160 KL Flushing Tank : 90 KL Fire Water Tank : 700 KL Rain water Harvesting Tank : 130 KL

SEAC-AGENDA-0000000054

35.Storm water drainage	**Natural water drainage pattern:**	Along the plot boundary
	Quantity of storm water:	Rehab: 0.097 cum/sec ; Sale : 0.065 cum/sec
	Size of SWD:	Rehab-0.5 m Sale -0.4 m
Sewage and Waste water	**Sewage generation in KLD:**	Rehab : 122 KLD Sale : 50 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Rehab : 130 KLD ; Sale : 60 KLD
	Location & area of the STP:	Location: Basement, Area: 152 sq.m
	Budgetary allocation (Capital cost):	Rs. 25 Lakhs
	Budgetary allocation (O & M cost):	Rs 4 lakhs /annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Debris will be disposed off as per norms. Scrap material will be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	Rehab : 119 kg/day ; Sale : 79
	Wet waste:	Rehab : 291 kg/day ; Sale : 194
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Rehab: 6 kg/day; Sale: 2.5 kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Shall be used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	57 sq.m
	Area for machinery:	3 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20 Lakhs
	O & M cost:	Rs. 4 Lakhs / annum
37.Effluent Charecterestics		

SEAC-AGENDA-0000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	2051.29 sq.mt
	No of trees to be cut :	NIL
	Number of trees to be planted :	47
	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	Azardirachta indica	Neem	9	Medicinal Tree
2	Bauhinia purpurea	Gulabi kanchan	8	Flowering Tree
3	Phyllanthus emblica	Awla	12	Medicinal & Fruit tree

SEAC-AGENDA-0000000054

4	Mangifera indica	Mango	10	Friut Trees
5	Michelia champaca	Sonchaffa	8	Flowering Tree
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Gloriosa suparba	2 m	3 m
2	Adhatoda vasica	2 m	3 m
3	Tecona stans	2 m	4 m
4	Bougain villee sps	4 m	5 m
5	Passsiflora edulis	2 m	2m

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	Rehab : 4264 KW ; Sale : 4743
	During Operation phase (Demand load):	Rehab : 1852 KW ; Sale : 2107
	Transformer:	NA
	DG set as Power back-up during operation phase:	Rehab : 1 x 630 Kva ; Sale : 2 x 630 Kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Common area lighting with CFL/T5 Lamps.
2. Energy efficient fluorescent lamps & CFL lamps with high frequency ballast which give more light output for the same watts consumed and therefore require less nos. of fixtures
3. Use of combination of LED & CFL Light along with BEE rated 5 Star equipments
4. Solar PV Panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Rehabilitation	23%
2	Sale	25%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

SEAC-AGENDA-000000054

Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 150 Lakhs
	O & M cost:	Rs. 7.5 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	STP	2500000	400000
2	Water Environment	Rain water harvesting	6500000	300000
3	Land Environment	Gardening	5128000	1025600
4	Solid waste	OWC	2000000	400000

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:	2 nos. of juntion to main road

SEAC-AGENDA-0000000054

Parking details:	**Number and area of basement:**	3 nos ; area: 6109.53 sq.m.
	Number and area of podia:	9 nos ; Area:1691.99 sq.m.
	Total Parking area:	10450.59 sq.m
	Area per car:	Basement: 32 sq.m; Podium: 30 sq.m
	Area per car:	Basement: 32 sq.m; Podium: 30 sq.m
	Number of 2-Wheelers as approved by competent authority:	Nil
	Number of 4-Wheelers as approved by competent authority:	Sale: 460 nos. ; Sale:247 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide
	CRZ/ RRZ clearance obtain, if any:	Yes
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC AGENDA-000000054

PP submitted their application is for prior Environmental Clearance on total plot area of 12325.78 Sq. mtrs, total BUA of 131957.79 Sq. mtrs. and FSI area of 42017.56 Sq. mtrs. PP proposes to construct 3 number of Residential buildings (1 Rehab building & 2 Sale building) having maximum height of 236.95 mtrs.

PP has obtained earlier EC vide letter No. SEAC-2013/CR- 345/TC-1 dated 24.01.2014 for total construction area of 1,18,007.23 sq.m. Due to increase in fungible FSI, PP has applied for expansion in the earlier Environmental Clearance. PP also stated that the have obtained CRZ recommendation.

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

It was noted that PP has submitted/uploaded IOD/IOA/Concession Document/Plans as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra. PP also agreed during the presentation that agreement between Sale & Rehab Building tenements will be undertaken for maintenance of environmental facilities, RG area which is common for both the buildings. PP also agreed to provide air purification system, UV and Ozonization treatment in waste water treatment to achieve discharge BOD of 10. PP also agreed to provide drip irrigation to road side plantation for utilization of excess treated waste water.

DECISION OF SEAC

After deliberation, committee decided to recommend the proposal for Environmental clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

1) PP to submit certified six monthly compliance report from Regional Office, MOEF&CC, Nagpur.
2) PP informed that heights of buildings to be constructed is about 233 Meter, but PP had high rise permission upto 138.7 Meter only. PP to submit permission from competent authority and till that time restrict construction up to 138.7 meters as stipulated in the permission.
3) PP to leave clear cut side margin from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon' ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

FINAL RECOMMENDATION

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

SEAC AGENDA 0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Proposed IT & ITES/Commercial Building Project

Is a Violation Case: No

1.Name of Project	Proposed IT & ITES/Commercial Building Project
2.Type of institution	Private
3.Name of Project Proponent	Ms. Ritu Sharma / Ms. Sangeeta Ray
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No 130 of Worli Scheme No 52, CS no 1618 of Lower Parel division, Mumbai
9.Taluka	Mumbai
10.Village	Mumbai
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Will be applied
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	no work started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	12,531.03 m2
16.Deductions	534.07 m2
17.Net Plot area	11,996.96 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 38,870.17 m2
	b) Non FSI area (sq. m.): 53,129.83 m2
	c) Total BUA area (sq. m.): 92,000 m2
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)	5398.63 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	45%
21.Estimated cost of the project	3070000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	B+G+1st to 6th Podium + Stilt + 18 Upper Floors (12 typical office floors +1 (pt)office floor + 3 Refuge/office floors + 1 Service Floor + 1 Fire check floor)	112.10 m upto top of LMR roof

23.Number of tenants and shops	It is commercial project

SEAC-AGENDA-0000000054

24.Number of expected residents / users	4081 Nos.
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27.45 m wide G. M. Bhosale Marg on East Side, 27.45 m wide Pandurang Budhkar Marg on North Side and 18.30 m wide Ganpat Jadhav Marg on West side.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Existing structures are present on site
30.Details of the demolition with disposal (If applicable)	Demolition Quantity: 12,792.38 m3

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):	61
	Recycled water - Flushing (CMD):	122
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	184
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	47

SEAC-AGENDA-0000000054

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	36
	Recycled water - Flushing (CMD):	122
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	184
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	47
Details of Swimming pool (If any)	No swimming pool is proposed	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 to 4 m
	Size and no of RWH tank(s) and Quantity:	2 RWH Tanks of total 120 m3
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	not applicable
	Size of recharge pits :	not applicable
	Budgetary allocation (Capital cost) :	27.6 Lakh
	Budgetary allocation (O & M cost) :	2.8 lakh / yr
	Details of UGT tanks if any :	UG Tanks are provided in Basement

35.Storm water drainage	**Natural water drainage pattern:**	Towards North Side
	Quantity of storm water:	1402.1 m3/hr
	Size of SWD:	400 x 600 mm

SEAC-AGENDA-0000000054

Sewage and Waste water	**Sewage generation in KLD:**	178 KLD
	STP technology:	Oxic â?? Anoxic Treatment
	Capacity of STP (CMD):	One STP will be provided with capacity of 200 m3/day
	Location & area of the STP:	STP is provided in Basement. Area is 500 m2
	Budgetary allocation (Capital cost):	50 Lakh
	Budgetary allocation (O & M cost):	10.6 Lakh/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris : 2671 m3; Demolition Waste: 12,792.38 m3
	Disposal of the construction waste debris:	The construction debris will be disposed as per the â??Construction and Demolition and Desilting Waste (Management and Disposal) Rules 2006.
Waste generation in the operation Phase:	**Dry waste:**	327 kg/d
	Wet waste:	490 kg/d
	Hazardous waste:	not applicable
	Biomedical waste (If applicable):	not applicable
	STP Sludge (Dry sludge):	1.8 m3/d
	Others if any:	E-Waste: 2.8 tonne/yr
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	not applicable
	Biomedical waste (If applicable):	not applicable
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	E-Waste will be given to Authorized Vendor
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	70 m2
	Area for machinery:	22 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20.0 Lakh
	O & M cost:	8.0 Lakh/yr

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			

SEAC-AGENDA-000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development

Total RG area :	1,200 m2
No of trees to be cut :	35 Nos.
Number of trees to be planted :	116 Nos.
List of proposed native trees :	as below
Timeline for completion of plantation :	2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Satvin	9	Shady Tree, white fragrant flowers
2	Michelia champaca	Son chafa	23	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
3	Nyctanthes arbor-tristis	Parijatak	15	Small deciduous fast growing tree, beautiful flowrers.
4	Lagerstroemia flos-regineae	Tamhan	12	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers

SEAC-AGENDA-0000000054

5	Cassia fistula	Bahava	21	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
6	Azadirachta indica	Neem	11	Semi-evergreen tree with medicinal value
7	Millettia pinnata	Karanj	12	Shady tree.
8	Saraca asoka	Sita Asoka	11	Shady tree with red-yellow flowers.
9	Mimusops elegni	Bakul	2	Shady tree, small white fragrant 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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	500 kVA
	During Operation phase (Connected load):	5 MW
	During Operation phase (Demand load):	4 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	1200 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

Energy efficient lighting using LEDs
Solar Street lights for common areas such as open spaces, pathways etc.
Use of high energy efficient pumps for fire fighting, UG tanks, water pumps and STP
The project has been able to save 41% over the conventional base case & 30% over ECBC 2007

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving Over Conventional Base case is 41%	41%
2	Energy Saving Over ECBC is 30%	30%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

SEAC-AGENDA-0000000054

Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20 Lakh
	O & M cost:	1.0 Lakh/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertairy)	Continuous O & M Environment Monitoring: Monthly, STP outlet water quality for pH, BOD, COD, SS and O & G	50.0	10.6
2	Solar System	Weekly	20.0	1.0

SEAC-AGENDA-000000054

3	Rainwater Harvesting	During rainy season (cleaning of UG tanks and filtration units before rainy season)	27.6	2.8
4	Solid Waste Composting Plant	Continuous O & M Environment Monitoring: Monthly to assess the compost quality	20.0	8.0
5	Landscape	Daily	17.0	2.5
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4.0

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:	-
Parking details:	**Number and area of basement:**	1 Basement with 3,211.12 m2 (Excluding Service area)
	Number and area of podia:	6 Podium with 17,954.00 m2 (Excluding Service area)
	Total Parking area:	21,165.12 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	577 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	6 -9 m

SEAC-AGENDA-0000000054

	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 12531.03 m2, Total BUA of 92000 Sq. Mtrs. and FSI area of 38870.17 Sq. Mtrs. PP proposes to construct a IT & ITES / Commercial building having maximum height of 112.10 Mtrs.

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

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to revise consolidated statement in respect of point no.12 i.e applicability of IOD/IOA etc. & point no.22 i.e. building configuration as per HRC NOc.
3) PP informed that debris generated on site is disposed as per debris management plan dated 12.02.2018 approved by MCGM. Committee noted that site proposed by MCGM for disposal of debris is in CRZ area, therefore committee suggested PP to submit revised debris management plan.
4) PP to submit HRC NOC.
5) PP to locate waste disposal storage area in master layout.
6) PP to provide STP open to sky, PP to provide tertiary treatment, air purification, UV & Ozonization treatment in STP to achieve BOD level below 10.
7) PP to explore use of solar facade instead of glass facade to achieve conservation of 10% of total energy.
8) PP to make the building plastic free zone.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for REDEVELOPMENT OF MHADA COLONY, MAHARASHTRA NAGAR at Land Bearing New S. No 56, H. No. 5 A2 & New S. No. 56, H. No. 6B, Sector 4 Chitalsar Manpada, Tal. & Dist. – Thane, Maharashtra by Peer Realty Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	REDEVELOPMENT OF MHADA COLONY, MAHARASHTRA NAGAR at Land Bearing New S. No 56, H. No. 5 A2 & New S. No. 56, H. No. 6B, Sector 4 Chitalsar Manpada, Tal. & Dist. – Thane, Maharashtra by Peer Realty Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vikas Joshi, Peer Realty Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	MHADA
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	Land Bearing New S. No 56, H. No. 5 A2 & New S. No. 56, H. No. 6B, Sector 4 Chitalsar Manpada, Tal. & Dist. – Thane, Maharashtra.
9.Taluka	Thane
10.Village	Chitalsar- Manpada
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	Principle approval from MHADA dt. 18.01.2017
	IOD/IOA/Concession/Plan Approval Number: Principle approval from MHADA dt. 18.01.2017
	Approved Built-up Area: 48997.50
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Principle approval from MHADA dt. 18.01.2017
15.Total Plot Area (sq. m.)	19,599.00 m2
16.Deductions	NA
17.Net Plot area	19,599.00 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 48,955.95 m2
	b) Non FSI area (sq. m.): 61,200.42 m2
	c) Total BUA area (sq. m.): 1,10,156.37 m2
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)	10,325.30 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	52.68%
21.Estimated cost of the project	3000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg. R1	S+ 1P +E-deck (pt Resi./pt Stilt)+ 1st to 28th (pt) residential floor.	93.35 m
2	Bldg. R2	S + 1P +E-deck (pt Resi. /pt Stilt) + 1st to 26th (pt) residential floor.	87.55 m

SEAC-AGENDA-0000000054

3	Bldg. R3	S + 1P +E-deck (pt Resi/pt Stilt) + 1st to 28th (pt) residential floor	93.35 m
4	Bldg. S1	S + 1P +E-deck + 1st to 27th residential floor.	90.45 m
5	Bldg. S2	S + 1P +E-deck + 1st to 27th residential floor	90.45 m

23.Number of tenants and shops	Flats: 845 Nos.
24.Number of expected residents / users	4,281 Nos.
25.Tenant density per hectare	433/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	40 m wide Smt. Gladys Alvares Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Existing 15 residential buildings with G+4 configuration
30.Details of the demolition with disposal (If applicable)	Existing 15 residential buildings will be demolished and about 10,011.13 m3 of demolition quantity will be disposed at designated disposal site as approved by the District Collector/TMC.

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

SEAC-AGENDA-000000054

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	385 KLD
	Recycled water - Flushing (CMD):	193
	Recycled water - Gardening (CMD):	25
	Swimming pool make up (Cum):	5 KLD
	Total Water Requirement (CMD) :	583
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	316 KLD
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	320 KLD + 65 KLD (RWH)
	Recycled water - Flushing (CMD):	193
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	5 KLD
	Total Water Requirement (CMD) :	583
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	341 KLD
Details of Swimming pool (If any)	Swimming Pool will be Provided	

33.Details of Total water consumed

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

SEAC-AGENDA-000000054

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 m
	Size and no of RWH tank(s) and Quantity:	5 RWH tanks with total capacity: 65 m3
	Location of the RWH tank(s):	Under Ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 15 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.5 lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Towards East side in Nalla
	Quantity of storm water:	2941 m3/hr
	Size of SWD:	450 mm X 1300 mm
Sewage and Waste water	**Sewage generation in KLD:**	539 KLD
	STP technology:	RMBR Technology
	Capacity of STP (CMD):	2 STP's are proposed of total capacity 570 KLD. (Sale: 275 KLD & Rehab: 295 KLD)
	Location & area of the STP:	Ground Floor
	Budgetary allocation (Capital cost):	Rs. 120 Lakh
	Budgetary allocation (O & M cost):	Rs. 23 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Demolition quantity: 10,011.13 m3 & Construction Debris: 3,199 m3
	Disposal of the construction waste debris:	Demolition quantity will be disposed as per district collector guidelines. Top soil will be preserved and used for landscaping. The construction debris will be utilized at site for Road Paving and plinth filling.
Waste generation in the operation Phase:	**Dry waste:**	856 Kg/d
	Wet waste:	1,284 Kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	5
	Others if any:	Household E-waste generation

SEAC-AGENDA-000000054

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E-waste shall be handed over to e-waste management vendor authorized by MPCB.
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	100 m2
	Area for machinery:	50 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 56 Lakh
	O & M cost:	Rs. 22 Lakh/yr

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		

SEAC-AGENDA-0000000054

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	Total RG provided: 5,099.26 m2. (RG on Ground: 2,622 m2 & RG on Podium: 2,477.26 m2)
	No of trees to be cut :	Total trees on site: 262 Nos. Trees to be cut: 239 Nos. Trees to be retained: 23 Nos.
	Number of trees to be planted :	369 Nos.
	List of proposed native trees :	369 Nos.
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Lagerstromia Reginea	Taaman	30	Official state tree
2	Saraca indica	Sita Ashok	35	Hardly evergreen tree, grows well in warm climate
3	Butea Monosperma	Palash	22	Medium deciduous tree with bright flowers
4	Anthocephalus kadamba	Kadamb	10	Deciduous tree, large foliage & beautiful tree
5	Azadirachta Indica	Neem	17	Hardy evergreen tree, has medicinal properties
6	Murraya exotica	Kunti	13	Small, evergreen tree, good for gardens
7	Magnolia Champaca	Chafa	27	Ornamental flowering tree, hardy in nature
8	Erythrina indica	Pangara	23	Medium sized deciduous tree. Bright scarlet flowers.
9	Murraya Koenigii	Curry Leaves	13	Evergreen tree, has medicinal properties
10	Citrus sp	Lemon	9	Butterfly host plant
11	Michelia champaca	Son Chafa	12	Medium sized evergreen tree, fragrant yellow flowers
12	Cassia fistula	Bahava	32	Medium sized deciduous tree, Beautiful yellow flowers and Butterfly host plant.
13	Alstonia scholaris	Satvin	16	Shady, large evergreen tree, white fragrant flowers
14	Pongamia pinnata	Karanj	15	Shady tree
15	Albizia lebbeck	Shirij	31	Shady tree, yellowish green fragrant flowers
16	Erythrina Variegata	Coral Tree	7	Deciduous flowering tree, quick growing tree
17	Phyllanthus Emblica	Amla	9	Fruit tree attracting birds
18	Manilkara Zapota	Chicu	7	Fruit tree attracting birds
19	Tamarindus Indica	Tamarind	11	Large fruit tree attracting birds
20	Syzygium Cumini	Jaamun Tree	8	Fruit tree attracting birds

SEAC-AGENDA-0000000054

21	Ailanthus excelsa	Maharukh	22	Large tree, good for roadside plantation
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	Plumbago Capensis- Chitrak	-	-
2	Raphis Palm	-	-
3	Murraya Paniculata - Kunti	-	-
4	Adhatoda Vasica - Adulsa	-	-
5	Wedelia Trilobata - Wedelia	-	-
6	Canna Dwarf - Kardal	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	325 kVA
	DG set as Power back-up during construction phase	325 kVA
	During Operation phase (Connected load):	12.68 MW
	During Operation phase (Demand load):	2.36 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total: 1220 kVA (1X500 kVA for Sale, 1X400 kVA for Rehab & 320 kVA for Parking)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

ENERGY CONSERVATION MEASURES:
- Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement
- Solar lighting in common areas, garden and road
- Solar hot water for residential buildings
- Energy efficient lighting fixtures (LED lights) to all buildings. Soft starting for motors of lifts, pumps.

COMPLIANCE OF THE ECBC GUIDELINES:
- Solar water heating for minimum 20 % design capacity
- Equipment efficiency standards
- Lighting controls occupancy se

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

SEAC-AGENDA-000000054

1	>20 % Saving on overall project due to LED & soft starting.	>20 %
2	>14% for Solar water heating and lights.	>14%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 127 Lakh
	O & M cost:	Rs. 6.35 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	Not applicable	4
2	Site sanitation	Toilets	5
3	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time	4
4	Potable Water Supply to Labour Camp	-	3
5	Health check-up & first aid	-	4
6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	8
7	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	2
8	Safety nets	-	4
9	Tyre cleaning and Vehicle maintenance	-	2.5
10	Solid Waste Management & Site maintenance activity	-	3.5
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Continuous O & M	120	23
2	Solar Hot Water & Solar Street Lights	Quarterly	127	6.35

SEAC-AGENDA-000000054

3	Rain Water Harvesting	During rainy season (cleaning of SWD, Contour trenches and filtration units before rainy season)	15	1.5
4	Solid waste Composting plant	Continuous O & M	56	22
5	Landscape	Daily	46	6.9
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	40 m wide Smt. Gladys Alvares Road
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 Podium & 1 E-Deck floor
	Total Parking area:	16,928.53 m2
	Area per car:	13.75 m2
	Area per car:	13.75 m2
	Number of 2-Wheelers as approved by competent authority:	923 Nos.
	Number of 4-Wheelers as approved by competent authority:	1,023 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	NA

SEAC-AGENDA-0000000054

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park Approx. 1.1 km from the Project Site. As per MoEF&CC ESZ Notification No. S.O. 3645(E) dated 05.12.2016 our site is outside eco sensitive zone i.e. (100 m) & at a distance of 1.1 km. Hence the clearance from the standing committee of NBWL is not required.
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	22-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 19,599.00 Sq. Meters., Total BUA of 1,10,156.37 Sq. Mtrs. and FSI area of 48,955.95 Sq. Mtrs. It is proposed to construct 3 rehab buildings & 2 sale buildings having maximum heights of 93.35 meters.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2. PP informed that no NBWL & CRZ permission is required for development of layout.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to revise consolidated statement regarding point no.29 of CS i.e. number of existing buildings.
3) PP to submit High Rise Committee permission.
4) PP to submit undertaking that demolition debris is used at project site only.
5) PP informed that nalah is abutting the layout which is already trained by INDP, Thane.
6) PP to obtain & submit tree cutting permission from competent authority.
7) PP to submit short note on wind movement in project site.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Expansion of IT park Project

Is a Violation Case: No

1.Name of Project	Proposed IT Park Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Bimal J. Desai, Rupa Renaissance Limited
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Industrial Estate
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, Prior EC obtained vide letter SEAC-2014/CR210/TC-1, dated 25/01/2016
8.Location of the project	Plot no. D-33 TTC, MIDC area, Turbhe, Navi Mumbai, Maharashtra
9.Taluka	Thane
10.Village	Turbhe
11.Area of the project	Navi Mumbai Municipal Corporation / MIDC TTC
12.IOD/IOA/Concession/Plan Approval Number	Approval received, Deputy Engineer, Special planning Authority, MIDC DN III Mhape, Navi Mumbai.
	IOD/IOA/Concession/Plan Approval Number: DE/MHP(C)I/A-59751 dated 14/02/2017
	Approved Built-up Area: 56907
13.Note on the initiated work (If applicable)	Work initiated as per the earlier EC received, area constructed: 17003 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	18,969 m2
16.Deductions	nil
17.Net Plot area	18,969 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 56,762.29 m2
	b) Non FSI area (sq. m.): 68,097.82 m2
	c) Total BUA area (sq. m.): 1,24,860.11 m2
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)	9475.67 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.9%
21.Estimated cost of the project	3000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	IT Building	B+G+5P+6th to 30th Floor	137.09 m
2	IT support services (Service apartment, shops and restaurant)	B+G+5P+6th to 32nd Floor	125.90 m
3	IT support services (Guest House)	B+G+1st to 5th Floor	25.04 m

23.Number of tenants and shops	IT Offices: 46 nos, 88 flats, 44 guest rooms, 7 shops & 8 Restaurant

SEAC-AGENDA-0000000054

24.Number of expected residents / users	5430 nos
25.Tenant density per hectare	IT project
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.5 m wide Turbhe MIDC Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m wide internal roads
29.Existing structure (s) if any	No
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**	MIDC
	Fresh water (CMD):	120
	Recycled water - Flushing (CMD):	169
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	291
	Fire fighting - Underground water tank(CMD):	as per CFO NOC
	Fire fighting - Overhead water tank(CMD):	as per CFO NOC
	Excess treated water	0

SEAC-AGENDA-000000054

Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	100
	Recycled water - Flushing (CMD):	169
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	291
	Fire fighting - Underground water tank(CMD):	as per CFO NOC
	Fire fighting - Overhead water tank(CMD):	as per CFO NOC
	Excess treated water	0
Details of Swimming pool (If any)	Swimming pool open to sky	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 m
	Size and no of RWH tank(s) and Quantity:	RWH : 3 Tanks with capacity 93 m3, 12 m3 & 6 m3
	Location of the RWH tank(s):	underground
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	22 lakh
	Budgetary allocation (O & M cost) :	2 lakh/year
	Details of UGT tanks if any :	Fire tank, Domestic tank, Flushing tank

35.Storm water drainage	**Natural water drainage pattern:**	Towards west
	Quantity of storm water:	2162 m3/hr
	Size of SWD:	450mm x 300 mm

SEAC-AGENDA-0000000054

Sewage and Waste water	**Sewage generation in KLD:**	279
	STP technology:	Oxic Anoxic treatment
	Capacity of STP (CMD):	1 STP with 290 KLD capacity
	Location & area of the STP:	on ground, area of STP = 250 m2
	Budgetary allocation (Capital cost):	65 lakh
	Budgetary allocation (O & M cost):	15 lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	construction waste: 3620 m3, Excavation: 23000 m3
	Disposal of the construction waste debris:	The construction debris will be disposed as per the NMMC rules. The excavation waste will be used for Backfilling - 8000 m3 and Remaining waste 15000m3 shall be disposed as per the municipal rules
Waste generation in the operation Phase:	**Dry waste:**	469 kg/day
	Wet waste:	704 kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	3 kld
	Others if any:	400 kg/day of E waste will be generated
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting and used as organic manure for landscaping.
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	will be used as manure for gardening
	Others if any:	The E waste will be disposed to authorized vendor of MPCB as per rules.
Area requirement:	**Location(s):**	on ground
	Area for the storage of waste & other material:	30 m2
	Area for machinery:	25 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	28 lakh
	O & M cost:	11 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			

SEAC AGENDA-0000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development

Total RG area :	1904 m2
No of trees to be cut :	Nil
Number of trees to be planted :	90 nos
List of proposed native trees :	Mango, Coconut, Bakul, Ashoka, Kanher, Son chafa
Timeline for completion of plantation :	1 years after completion 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	Magnifera Indica	Mango	15	Shady tree with pulpy fruits
2	Cocos nucifera	Coconut	20	palm species
3	Mimusops elengi	Bakul	14	Shady tree, small white fragrant flowers
4	Saraca asoka	Sita Ashoka	13	Shady tree with red-yellow flowers.
5	NERIUM OLEANDER PINK	Kanher	15	Flower bearing tree
6	Michelia champaca	Son chafa	13	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant

SEAC-AGENDA-0000000054

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	Nirgudi	--	--
2	Rose	--	--
3	White plumbago	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL MIDC
	During Construction Phase: (Demand Load)	300 kVA
	DG set as Power back-up during construction phase	300 kVA
	During Operation phase (Connected load):	7 MW
	During Operation phase (Demand load):	5 MW
	Transformer:	--
	DG set as Power back-up during operation phase:	5000 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

- Efficient wall systems like solid blocks with fly ash content and high performance glass
- Energy efficient lighting using LED's in offices Lift Lobby, Toilets & Core area Passages
- Solar lighting on street and RG area
- Controlling to lights through motion sensors and day light sensors
- Use of high energy efficient pumps for firefighting, UG tanks and STP
- Solar Hot water for Residential Wings
- Solar PV panels having capacity to generate 75 kW power on IT building
- HVAC system (Water cooled)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Efficient wall systems like solid blocks with fly ash content and high performance glass • Energy efficient lighting using LED's in offices Lift Lobby, Toilets & Core area Passages • Solar lighting on street and RG area • Controlling to lights through motion sensors and day light sensors • Use of high energy efficient pumps for firefighting, UG tanks and STP • Solar Hot water for Residential Wings • Solar PV panels having capacity to generate 75 kW power on IT building • HVAC system (Water	22.17%

SEAC-AGENDA-000000054

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:**	40 lakh
	O & M cost:	5 lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	--	4.5
2	Site sanitation and Potable Water Supply to Labour	--	5
3	Environmental Monitoring	(As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	4.5
4	Health check-up & first aid	--	3.5
5	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	--	5
6	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	--	3
7	Safety nets	--	21
8	Tyre cleaning and Vehicle maintenance	--	1.5
9	Safety Training to Workers (Twice in Year), Safety Officer	--	3.5
10	Disinfection	--	3
11	Total		54.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	--	65	15
2	SWM	--	28	11
3	RWH	--	22	2
4	Landscape	--	20	3

SEAC-AGENDA-000000054

5	Solar	--	40	5
6	Environment Monitoring	--	0	4
7		--	175	40

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:	1 Junction
Parking details:	**Number and area of basement:**	1 basement, Total combined basement area for IT, Service apartment and Guest house buildings-10587.53 m2
	Number and area of podia:	5 podium for IT building: 33546.06 m2, 5 podiums for service apartment building: 6260.46 m2,
	Total Parking area:	51975 m2
	Area per car:	31.2 m2
	Area per car:	31.2 m2
	Number of 2-Wheelers as approved by competent authority:	120 nos
	Number of 4-Wheelers as approved by competent authority:	1662 nos
	Public Transport:	--
	Width of all Internal roads (m):	9 m wide internal roads
	CRZ/ RRZ clearance obtain, if any:	--
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA

SEAC AGENDA 0000000054

	Category as per schedule of EIA Notification sheet	8 a
	Court cases pending if any	Nil
	Other Relevant Informations	1) CFO NOC Received : No. MIDC/Fire/50 dt 07.01.2015 2) 3 star Green Rating “Adarsh” Griha Received dt 31.12.2014
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-04-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for Environmental Clearance for expansion of IT park Project on total plot area of 18969 Sq. mtrs, total BUA of 124860.11 Sq. mtrs. and FSI area of 56762.29 Sq. mtrs. PP proposes to construct IT Building & 2 IT support services Buildings having maximum height of 137.09 mtrs.

PP has obtained earlier EC dated 25.01.2016 for total construction area 1,21,040.86sq.m. Now, due to increase in FSI, PP applied for expansion in earlier EC.

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

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to submit certified compliance report from RO, MOEF & CC,Nagpur.
3) PP informed that project is Zero Liquid Discharge (ZLD) as treated water discharged from STP is used for chilling plant of the project.
4) PP to declare campus as a plastic free zone (No Pet bottles, cutlery), PP to ensure that plastics used in packaging should be recycled.
5) PP to provide transit storage facility for storage of E-waste.
6) PP to explore possibility of use of biodegradable waste for energy/ biogas production.
7) PP to revise and submit RG drawings with calculation.
8) PP to revise two wheeler parking layout as parking is shown on RG.
9) PP to submit original plan with 2 FSI to compare status of basement as per earlier EC.
10) PP to provide Solar panels in lobby and common areas.
11) PP to explore possibility of use of glass facade with solar panels.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Proposed SRA Scheme Project at Plot bearing CTS No. 247 A(pt), corresponding Survey No. 25, Hissa No. 1 of village Mandapeshwar being situated at Mandapeshwar Road, Borivali West, Mumbai, Maharashtra.

Is a Violation Case: No

1.Name of Project	Integrated Spaces Limited
2.Type of institution	Private
3.Name of Project Proponent	Shri. Kantilal M. Savla
4.Name of Consultant	Dr. D.A. Patil, Mahabal Enviro Engg. Pvt. Ltd
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing CTS No. 247 A(pt), corresponding Survey No. 25, Hissa No. 1 of village Mandapeshwar being situated at Mandapeshwar Road, Borivali West, Mumbai, Maharashtra.
9.Taluka	Borivali
10.Village	Mandapeshwar
11.Area of the project	Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	IOA Recieved from MMRDA
	IOD/IOA/Concession/Plan Approval Number: IOA of Building No. R1: MMRDA/OSD/SRA/Rev LOI-74 /IOA-134/PL/R(N) / 2016 dated 30/12/2016 and IOA of Building No. R2: MMRDA/OSD/SRA/Rev LOI-74 /IOA-135/PL/R(N) / 2016 dated 30/12/2016
	Approved Built-up Area: 12156.29
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI Received from MMRDA, Letter no. MMRDA/SRA/Rev LOI-74/PL/R(C)/2016
15.Total Plot Area (sq. m.)	4,604.53 m2
16.Deductions	967.38 m2
17.Net Plot area	3637.15 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18,404.66 m2
	b) Non FSI area (sq. m.): 9,891.81 m2
	c) Total BUA area (sq. m.): 28,296.47 m2
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)	1320.57 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36.61 %
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential Building R1	S+22F	68.15m
2	Residential Building R2	S+22F	68.15 m
3	Residential Building R3	LG+G+7F	23.50 m

SEAC-AGENDA-900000000054

23.Number of tenants and shops	Total Tenements: 518 nos. (Rehab : 72 nos., Sale : 37 nos., PAP : 409 nos.) Sale shop : 7 nos., Amenities : 19 nos.
24.Number of expected residents / users	2668 Nos
25.Tenant density per hectare	1435 tenements / ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The proposed project site is accessible by 27.45 m wide D. P. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	min 9 m
29.Existing structure (s) if any	Existing Slum huts 114 nos. on site
30.Details of the demolition with disposal (If applicable)	Partly Demolished and demolition waste is used within site for leveling.

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):	234
	Recycled water - Flushing (CMD):	119
	Recycled water - Gardening (CMD):	4
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	353
	Fire fighting - Underground water tank(CMD):	AS per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	204

SEAC-EIA-0000000054

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	210
	Recycled water - Flushing (CMD):	119
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	353
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	208
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4-5 m
	Size and no of RWH tank(s) and Quantity:	1 RWH Tank with capacity of 40 m3
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	11.5 Lakh
	Budgetary allocation (O & M cost) :	1.2 Lakh/Yr
	Details of UGT tanks if any :	3 nos of UG tanks will be provided

35.Storm water drainage	**Natural water drainage pattern:**	Towards North
	Quantity of storm water:	504.71 m3/hr
	Size of SWD:	450 mm X 450 mm

SEAC-AGENDA-0000000054

Sewage and Waste water	**Sewage generation in KLD:**	330 KLD
	STP technology:	400 KLD
	Capacity of STP (CMD):	1 STP with Capacity 400 KLD
	Location & area of the STP:	Lower Ground (Area 210.67 m2)
	Budgetary allocation (Capital cost):	88.0 Lakh
	Budgetary allocation (O & M cost):	16.0 Lakh/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris : 3396 m3, Demolish waste :905m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for road paving and plinth filling
Waste generation in the operation Phase:	**Dry waste:**	524 Kg/day
	Wet waste:	786 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	3 KLD
	Others if any:	Household E waste generation
Mode of Disposal of waste:	**Dry waste:**	Dry Garbage will be segregated and disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The household E- waste shall be handed over to E-waste management vendor authorized by MPCB.
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	80 m2
	Area for machinery:	30 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	31.4 Lakh
	O & M cost:	12.6 Lakh/yr

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			

SEAC AGENDA-0000000054

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development

Total RG area :	797.20 m2
No of trees to be cut :	10 nos
Number of trees to be planted :	60 nos
List of proposed native trees :	as below
Timeline for completion of plantation :	2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta Indica	Neem	10	Semi-evergreen tree with medicine
2	Albizia Lebbeck	Shirish	7	shady tree, yellowish green fragrant
3	Erythrina Indica	Pangara	8	Medium sized deciduous tree,
4	Plumeria Albia	Chapha	5	medium sized evergreen tree,
5	Engenia jambolona	Jambul	10	Shady tree, white juicy fruit plant
6	Mangifera Indica	Mango	8	Large, Shady tree, fruity plant
7	Psidium Guajava	Guava	6	Medium sized tree, fruity plant

SEAC-AGENDA-0000000054

8	Cassia Fistula	Bahava	6	MMedium sized deciduous tree , beautiful yellow colour flowers
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Vitex negundo	-	-
2	Adhatoda vasica	-	-
3	Plumbago zeylanica	-	-
4	Ziziphus mauritiana	-	-

47.Energy

Power requirement:	**Source of power supply :**	Reliance Infrastructure Pvt. Ltd
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	3.1 MW
	During Operation phase (Demand load):	1.7 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total 500 kVA (100 kVA x 1 nos. 200 kVA X 2 nos.)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving	21.17 %

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:**	19.0 Lakhs
	O & M cost:	1.0 Lakhs/yr

SEAC AGENDA-000000054

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	3
2	Site sanitation and Potable Water Supply to Labour	-	5
3	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time	4
4	Health check-up & first aid	-	5
5	Safety Personal Protective Equipment	Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc	8
6	Traffic Management	Sign Boards, Persons at entry exit and Parking area	3
7	Safety nets	-	8.5
8	Tyre cleaning and Vehicle maintenance	-	3
9	Storm water Management	SWD along plot boundary and Sedimentation Pits	4
10	Safety Training to Workers	-	3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Continuous O & M	88.0	16.0
2	Solar System	weekely	19.0	1.0
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and filtration chamber	11.5	1.2
4	Solid waste composting plant	Continuous O & M	31.4	12.6
5	Landscape development	Daily	8.0	1.2
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved	-	4.0

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

SEAC-AGENDA-000000054

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:	2 no of junctions
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Nil
	Total Parking area:	1388.36 m2
	Area per car:	15.09 m2
	Area per car:	15.09 m2
	Number of 2-Wheelers as approved by competent authority:	25 Nos.
	Number of 4-Wheelers as approved by competent authority:	92 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project site is 1.1 km away from the boundary of Sanjay Gandhi national park (SGNP) and as per the Eco Sensitive Zone (ESZ) notification of Sanjay Gandhi National Park (SGNP), Borivali vide no. S. O. 3645 (E) dated 05.12.2016, proposed project site is outside of ESZ area i.e. (100 m); hence clearance from National Board for Wildlife (NBWL) is not applicable for this project.
	Category as per schedule of EIA Notification sheet	Category B (8-a)
	Court cases pending if any	No
	Other Relevant Informations	NA

SEAC-II-DA-0000000054

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 4604.53 Sq. mtrs, total BUA of 28296.47 Sq. mtrs. and FSI area of 18404.66 Sq. mtrs. PP proposes to construct 3number of Residential buildings having maximum height of 68.15 mtrs.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.PP informed that environmental facilities are common for rehab and sale buildings. PP agreed to provide Rs. 16 Lakhs corpus fund per year for maintenance of Environmental facilities for 5 years.

DECISION OF SEAC

After deliberation, committee decided to recommend the proposal for Environmental clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to leave clear cut side margin from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for "Aquaria Grande" at Borivali, Mumbai

Is a Violation Case: No

1.Name of Project	"Aquaria Grande" at Borivali, Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Wadhwa Group Holdings Pvt. Ltd.
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Expansion in Environmental Clearance (EC)
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	Received Environmental Clearance dated 14.07.2010 and Amendment in Environmental Clearance dated 10.12.2014
8.Location of the project	Plot bearing at CTS No. 1448/8A & 1448 / 8D Devidas Lane, Near Shanti Van, Shanti Ashram, Borivali (W), Mumbai -400103.
9.Taluka	Mumbai
10.Village	Borivali
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Amended Plan Received . No. CHE/A-4541/BP(WS)/AR of date 17.03.2015
	IOD/IOA/Concession/Plan Approval Number: Amended Plan Received. No. CHE/A-4541/BP(WS)/AR of date 17.03.2015
	Approved Built-up Area: 38509.64
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): 99,838.51 Sq. m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Environmental Clearance (EC) received dated 14.07.2010 and 10.12.2014 . Total Construction built up area mentioned in EC: 99,838.51 Sq. m.
15.Total Plot Area (sq. m.)	13,653.40 Sq. m.
16.Deductions	--
17.Net Plot area	13,653.40 Sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 37,589.66 Sq. m. (Including Fungible area)
	b) Non FSI area (sq. m.): 67,554.71 Sq. m.
	c) Total BUA area (sq. m.): 1,05,144.37 Sq. m.
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)	8,940.57 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	65 %
21.Estimated cost of the project	4893800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	2 Basements + 3 podia + Stilt + 31 Upper floors	133.55 mt.(up to terrace level)
2	Wing B	2 Basements + 3 podia + Stilt + 39 Upper floors	165.95 mt. (up to terrace level)

SEAC-AGENDA-0000000054

3	Club House	2 Basements + 1st Podium (Reception) + 2nd podium (parking) + 3rd podium (club) + Stilt	--

23.Number of tenants and shops	Flats: 190 Nos.
24.Number of expected residents / users	Residential: 950 Nos. ; Public Parking: 146 Nos. (Floating Population) ; Club House: 538 Nos. (Floating Population)
25.Tenant density per hectare	140/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)	27.45 mt. wide D.P. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 mt.
29.Existing structure (s) if any	Part construction completed as per EC received
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

SEAC-AGENDA-000000054

Dry season:	**Source of water**	M.C.G.M.
	Fresh water (CMD):	119
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	34
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	227
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	44
Wet season:	**Source of water**	M.C.G.M.
	Fresh water (CMD):	From M.C.G.M. = 105 & RWH = 14
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	193
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	78
Details of Swimming pool (If any)	Swimming pool Volume = 160 sq. m.	

33.Details of Total water consumed

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

SEAC-AGENDA-000000054

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.00 mt. below ground surface
	Size and no of RWH tank(s) and Quantity:	One RWH tank of 150 KL
	Location of the RWH tank(s):	ground
	Quantity of recharge pits:	10 Nos. of Recharging pits and Grease cum Desilting Chamber
	Size of recharge pits :	Size of Recharge Pit: 3mtx3mtx4mt AND Size of Grease cum Desilting chamber: 2mt x 0.9mt x 2mt
	Budgetary allocation (Capital cost) :	Rs. 48.00 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.41 Lacs/annum
	Details of UGT tanks if any :	Fire fighting tank: 400 KL (One time requirement)
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD.
	Quantity of storm water:	0.32 m3/sec
	Size of SWD:	500 mm dia with slope 1:200
Sewage and Waste water	**Sewage generation in KLD:**	Residential & Public Parking: 114 KL AND Club House: 48 KL
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Residential & Public Parking: 200 KL and Club House: 50 KL
	Location & area of the STP:	2nd Basement
	Budgetary allocation (Capital cost):	Rs. 128.00 Lacs
	Budgetary allocation (O & M cost):	Rs. 2.23 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	Construction waste shall be partly recycled and partly disposed to Authorized landfill sites
Waste generation in the operation Phase:	**Dry waste:**	128
	Wet waste:	300
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	25
	Others if any:	NA

SEAC-AGENDA-0000000054

Mode of Disposal of waste:	**Dry waste:**	o Non recyclable: To M.C.G.M. and o Recyclable: To recyclers
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	As manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	128 Sq. m.
	Area for machinery:	12 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9.00 lacs
	O & M cost:	Rs. 1.62 lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-000000054

43.Green Belt Development	**Total RG area :**	RG on the ground (sq. m.): 3240.06
	No of trees to be cut :	NA
	Number of trees to be planted :	Already planted : 225 Nos.
	List of proposed native trees :	Tree plantation is completed on site.
	Timeline for completion of plantation :	Already planted

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	Nil	nil	nil	nil
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	Nil	Nil	Nil

47.Energy

Power requirement:	**Source of power supply :**	Reliance Infrastructure Limited
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	6545 KW
	During Operation phase (Demand load):	4239 KW
	Transformer:	4 nos. of 1000 kVA each
	DG set as Power back-up during operation phase:	Residential - D.G. Set of capacity 750 kVA; Public Parking - D.G. Set of capacity 630 kVA ; Club House - D.G. Set of capacity 250 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of CFL Lamp for common and residential Area
Use of LED Light for lift lobby
Provision of electronic ballast for common and residential Area
Use of VFD & efficient pump
Solar panels for staircase lighting

SEAC-AGENDA-0000000074

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of CFL Lamp for common and residential Area Use of LED Light for lift lobby Provision of electronic ballast for common and residential Area Use of VFD & efficient pump Saving due to Solar panels for staircase lighting	• Use of CFL Lamp for common and residential Area • Use of LED Light for lift lobby • Provision of electronic ballast for common and residential Area • Use of VFD & efficient pump • Saving due to Solar panels for staircase lighting . Overall saving : 10%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 28.00 lacs
	O & M cost:	Rs. 3.00 lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust Suppression	1.08
2	Air Environment	Air & Noise Quality Monitoring : On site sensors	10.00
3	Air Environment	Air & Noise Quality Monitoring : By outside MOEF Approved Laboratory	0.22
4	Water Environment	Drinking water analysis	0.18
5	Land Environment	Site Sanitation	3.00
6	Socio- Economic Environment	Disinfection- Pest Control	1.20
7	Socio- Economic Environment	Health Check Up of workers	1.50
8	Cost towards Disaster Management	--	105.84

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air and Noise Environment	Cost for Gardening	44.54	1.20
2	Air and Noise Environment	Cost for Ambient Air quality & Noise Monitoring	*No set up cost is involved	0.22
3	Air and Noise Environment	Cost for Cost for DG Stack Exhaust Monitoring	*No set up cost is involved	0.14
4	Water Environment	Waste water treatment: Cost for Sewage Treatment Plants	110.00	1.20

SEAC AGENDA-0000000054

5	Water Environment	Waste water treatment: Cost for water and Waste water Monitoring: On site sensors	18.00	1.00
6	Water Environment	Waste water treatment: Cost for water and Waste water Monitoring:By outside MOEF Approved Laboratory	*No set up cost is involved	0.03
7	Water Environment	Water Conservation (Rain Water Harvesting System): Cost for RWH tank and recharge pits	45.00	1.35
8	Water Environment	Water Conservation (Rain Water Harvesting System): Cost for treatment unit for rain water tank	3.00	0.01
9	Water Environment	Water Conservation (Rain Water Harvesting System):Cost for Rainwater Monitoring	*No set up cost is involved	0.05
10	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage	9.00	1.54
11	Land Environment (Solid Waste Management)	Cost for Manure Costing	*No set up cost is involved	0.08
12	Energy Conservation	Cost for Solar System	28.00	3.00
13	Cost towards disaster management	--	835.96	5.43

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:	Residential: Three Entry & Exit, Public Parking: One Entry & Exit, Club House: One Entry & Exit

SEAC-AGENDA-000000054

Parking details:	**Number and area of basement:**	2 Basements (Public Parking only)
	Number and area of podia:	3 Podia (Captive Parking)
	Total Parking area:	Captive parking area: 14,986.20 Sq. m. and Public Parking area: 14,564.09 Sq. m.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Nil
	Number of 4-Wheelers as approved by competent authority:	Required: 520 Nos., Provision: 520 Nos.
	Public Transport:	194 Nos.
	Width of all Internal roads (m):	Minimum 6.00 to 9.00 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park –Approx. 2.00 Km
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-04-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC AGENDA-000000054

PP submitted their application is for prior Environmental Clearance on total plot area of 13653.40 Sq. mtrs, total BUA of 105144.37 Sq. mtrs. and FSI area of 37589.66 Sq. mtrs. PP proposes to construct 2number of Residential buildings having maximum height of 165.95 mtrs. & Club house.

PP has obtained earlier EC dated 14.07.2010 is in name of M/s Vinita Estates Pvt.Ltd. and amendment EC dated 10.12.2014. PP has applied for amendment in earlier EC with change in Name of the project.

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

PP informed that no change in parking. PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.

DECISION OF SEAC

After deliberation, committee decided to recommend the proposal for Environmental clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

1) PP to obtain & submit certified compliance report of earlier EC from RO, MOEF & CC,Nagpur
2) PP to correct CS with respect to building configuration, FSI area, Non FSI area, Total BUA area

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000054

STATE LEVEL EXPERT APPRAISAL COMMITTEE -2 (SEAC-2)

SEAC Meeting number: 57 (DAY 1) **Meeting Date** March 16, 2018

Subject: Environment Clearance for Proposed Amendment & Expansion of Residential Project at S. No. 280/2B2, 281/2A/1A, 288/2D/1B at village Majiwade, Tal & Dist Thane. Maharashtra proposed by Ardent Properties Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Ardent Properties Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Shri. Santosh Gotmare, Ardent Properties Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Residential Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment and expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Obtained Prior EC Obtained Vide No. SEAC 2015/CR. 135/TC.1 dated 18.07.2016
8.Location of the project	At Plot Bearing S. No. 280/2B2, 281/2A/1A, 288/2D/1B at village Majiwade, Tal. & Dist .Thane, Maharashtra
9.Taluka	Thane
10.Village	Majiwade
Correspondence Name:	Shri. Santosh Gotmare, Ardent Properties Pvt. Ltd.
Room Number:	-
Floor:	12th Floor
Building Name:	Times Tower
Road/Street Name:	Senapati Bapat Marg
Locality:	Kamla Mills Compound
City:	Lower Parel, Mumbai 400 013
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Approved plan received from TMC
	IOD/IOA/Concession/Plan Approval Number: V.P. S04/0087/15/TMC/TDD/2161/17 Dated 27.04.2017
	Approved Built-up Area: 34339.64
13.Note on the initiated work (If applicable)	19900.91 m2 area
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	29,600 m2
16.Deductions	8,094.35 m2
17.Net Plot area	21,505.65 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 54,763.27 m2
	b) Non FSI area (sq. m.): 77,048.17 m2
	c) Total BUA area (sq. m.): 131811.44
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)	16,842.43 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	56.90 %
21.Estimated cost of the project	1700000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000054

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower 1 (Wing A & Wing B)	B + LG + Gr + P + 29 upper floors	98.10
2	Tower 2	B + LG + Gr + P + 32 upper floors	107.40
3	Tower 3	B + LG + Gr + P + 29 upper floors	104.05
4	Tower 4	B + LG + Gr + P + 32 upper floors	102.45

23.Number of tenants and shops	Flats: 709 No. Shop Area: (2 shops) 68.63 m2
24.Number of expected residents / users	3652 Nos.
25.Tenant density per hectare	240 Tenement/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	40 m wide Pokhran Road No. 2
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m – 12 m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If 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

SEAC-AGENDA-000000054

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	321
	Recycled water - Flushing (CMD):	163
	Recycled water - Gardening (CMD):	31
	Swimming pool make up (Cum):	8
	Total Water Requirement (CMD) :	491
	Fire fighting - Underground water tank(CMD):	150 KL/Tower
	Fire fighting - Overhead water tank(CMD):	30 KL/Tower
	Excess treated water	254
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	276
	Recycled water - Flushing (CMD):	163
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	8
	Total Water Requirement (CMD) :	491
	Fire fighting - Underground water tank(CMD):	150 KL/Tower
	Fire fighting - Overhead water tank(CMD):	30 KL/Tower
	Excess treated water	285
Details of Swimming pool (If any)	Yes, Swimming pool make up 8 KLD	

33.Details of Total water consumed

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

SEAC-AGENDA-000000054

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5.5 m
	Size and no of RWH tank(s) and Quantity:	3 RWH tanks with total capacity: 62 m3
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 14.3 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.4 Lakhs/Y
	Details of UGT tanks if any :	UG tanks will be provided at LGF level
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the site and area is towards North side
	Quantity of storm water:	0.58 m3/sec
	Size of SWD:	600 mm wide drain channel
Sewage and Waste water	**Sewage generation in KLD:**	451 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP with 500 KLD
	Location & area of the STP:	Lower Ground
	Budgetary allocation (Capital cost):	105 Lakhs
	Budgetary allocation (O & M cost):	20 Lakhs/Y
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: : 3817 m3
	Disposal of the construction waste debris:	The construction debris will be used at site for site formation
Waste generation in the operation Phase:	**Dry waste:**	718 kg/day
	Wet waste:	1076 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	5 CMD
	Others if any:	Household E waste generation

SEAC-AGENDA-0000000054

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E-waste shall be handed over to e-waste management vendor authorized by MPCB.
Area requirement:	**Location(s):**	Lower ground
	Area for the storage of waste & other material:	120 m2
	Area for machinery:	50 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 48 Lakhs
	O & M cost:	Rs. 19.2 Lakhs/Y

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		

SEAC-AGENDA-0000000054

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	6103 m2
	No of trees to be cut :	Trees to be cut/Transplant: 133 Nos. ; Trees to be retained: 45 Nos.
	Number of trees to be planted :	430 Nos.
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Will be planted after completion 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	Albizia lebbeck	Shirish	40	Shady tree, yellowish green fragrant flowers
2	Pongamia pinnata	Karanj	45	Shady tree.
3	Bombax ceiba	Katesavar	31	Large tree, red flowers.
4	Anthocephallus cadamba	Kadamb	40	Shady, large tree, ball shaped flowers.
5	Cassia fistula	Bahava	39	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
6	Mimusops elengi	Bakul	38	Shady tree, small white fragrant flowers
7	Nyctanthes arbor-tristis	Parijatak	29	Small deciduous fast growing tree, beautiful flowrers.
8	Erythrina indica	Pangara	38	Medium sized deciduous tree. Bright scarlet flowers.
9	Michelia champaca	Son chafa	40	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	Bauhinia racemosa	Apta	40	Small tree with small white flowers, Butterfly host plant
11	Lagerstroemia flos-regineae	Tamhan	50	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
12	Total	-	430	NA
45.Total quantity of plants on ground				

SEAC-AGENDA-0000000064

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
	During Construction Phase: (Demand Load)	250 kVA
	DG set as Power back-up during construction phase	220 kVA
	During Operation phase (Connected load):	14 MW
	During Operation phase (Demand load):	5.7 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	1130 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Nil

48.Energy saving by non-conventional method:

Solar Hot Water system for Residential Building

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving	20.46 %

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:**	25 Lakhs
	O & M cost:	1.3 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	Water spray for dust suppression	-	5
2	Site sanitation and Potable Water Supply to Labour	-	10
3	Environmental Monitoring	-	5
4	Health check-up & first aid	-	5

SEAC-AGENDA-000000000054

5	Safety Personal Protective Equipment	-	12
6	Traffic management	(Sign Boards, Persons at entry exit and Parking area)	4
7	Safety nets	-	25
8	Storm water Management	(SWD along plot boundary and Sedimentation Pits)	4
9	Tyre cleaning and Vehicle maintenance	-	3
10	Safety Training to Workers, Safety Officer	(Twice in Year),	7
11	Disinfection	-	3
12	Solid waste Management	-	5
13	Total Cost	-	88

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	-	105.0	20.0
2	Solar System	-	25.0	1.3
3	Rainwater harvesting	-	14.3	1.4
4	Solid Waste Composting plant	-	48.0	19.2
5	Landscape	-	53.7	8.1
6	Environmental Monitoring	-	-	4.0
7	Total	-	246.0	53.9

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:	Pokhran Road No. 2

SEAC-AGENDA-0000000054

Parking details:	**Number and area of basement:**	1 Basement with 16842.45 m2 area
	Number and area of podia:	1 Podium (lower Ground) with 16842.45 m2 area and (Ground) with 11221.59 m2
	Total Parking area:	44906.48 m2
	Area per car:	31.8 m2
	Area per car:	31.8 m2
	Number of 2-Wheelers as approved by competent authority:	760 Nos.
	Number of 4-Wheelers as approved by competent authority:	1108 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA, Sanjay Gandhi National Park: 1.12 km
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	Total project cost is Rs. 570 Cr. Out of which Scrutiny fee for Rs. 400 Cr. is already paid for earlier EC received. Earlier paymnet details are as follows: Account No. 00600350068252 Date: 22.09.2015 Reference No. HDFCR52015092206141363 Transaction Details: RTGS DR - SBIN0005350-SEIAA SEAC SECREATAR Now, the cost towards Expansion is Rs. 170 Cr. Accordingly fee is paid.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

SEAC AGENDA-00000000054

PP submitted their application for Environmental clearance for total plot area of 29,600 m2, Total BUA of 131811.44 Sq. Mtrs. and FSI area of 54,763.27 Sq. Mtrs. PP proposes to construct 4 nos. of Residential building having maximum height of 107.4 Mtrs.

PP had obtained earlier Environmental Clearance dated 18.07.2016 to the project.Now, due to increase in FSI, PP applied for expansion in earlier EC.

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

It was noted that PP has submitted/uploaded IOD/IOA/Concession Document/Plans as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit certified six monthly compliance report from Regional Office,MOEF&CC, Nagpur.
2) PP informed that about 19,900.91 sq.meter construction is done as per earlier EC, PP to submit certificate from Structural Engineer stating the vertical limits for which design of building is made initially without compromising safety of the structure.
3) PP to submit High Rise Committee NOC
4) PP to submit undertaking with plan for utilization of 254 KLD excess treated water.
5) PP to obtain NOC from NBWL as the project site is located 0.6km away from Sanjay Gandhi National Park, Boriwali, if applicable.
6) PP to provide STP open to sky, PP to provide tertiary treatment, air purification,UV &Ozonisation treatment in STP to achieve BOD level below 10.
7) PP to submit disaster management plan including flood chambers at four corners to the project.
8) PP to obtain & submit CFO NoC.
9) PP informed that fire tender movement is only moving above the podium, PP to revise & submit fire tender movement plan for accessing fire tender movement all around the buildings.
10) PP to ensure that No parking is provided over Water treatment Plant.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC-AGENDA-0000000054