SEAC-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for "Ozone Biz Center" by Excellent Realtor Developers at Plot bearing C.S. No. 227, Byculla Division, Opp. Alexandra Cinema, Jehangir Boman Behram Marg, Mumbai-400008, Maharashtra

General Information:

1.Name of Project	Ozone Biz Center
2.Type of institution	Private
3.Name of Project Proponent	M/S. Excellent Realtor Developers
4.Name of Consultant	MITCON Consultancy & Engineering Services Ltd.
5.Type of project	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	Plot bearing C.S. No. 227, Byculla Division, Opp. Alexandra Cinema, Jehangir Boman Behram Marg, Mumbai-400008, Maharashtra
9.Taluka	NA
10.Village	NA
11.Area of the project	Mumbai Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: EB/2925/E/A dated 24/07/2013
	Approved Built-up Area: 18699.215
13.Note on the initiated work (If applicable)	Building 1 is completed as per the previous Environmental Clearance letter
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	5,531.81
16.Deductions	130.00
17.Net Plot area	5,401.81
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 17297.52
	b) Non FSI area (sq. m.): 28996.49
	c) Total BUA area (sq. m.): 46294.01
19.Total ground coverage (m2)	2596.14
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	46.9
21.Estimated cost of the project	1500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	Wing A: Commercial: Basement + Stilt + 7 Upper Rehab+ 1 Service Floor +9th to 14th Upper Sale, Wing B: Reservation: Basement + Stilt + 5th (pt), Wing C: Reservation: Basement + Stilt + 2nd (pt) + 4th (pt).	63 m
2	Building 2	2 Basements + 1 Stilt+5 Podiums + 2 Service floor+1 Fire check floor + 35 habitable floors	138.95

23.Number of tenants and shops	134
24.Number of expected residents / users	934
25.Tenant density per hectare	NA
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 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	Building 1
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	94.72
	Recycled water - Flushing (CMD):	64.54
	Recycled water - Gardening (CMD):	2.98
	Swimming pool make up (Cum):	7.93
	Total Water Requirement (CMD) :	170.17
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	60 m3
	Excess treated water	82.95
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	94.72
	Recycled water - Flushing (CMD):	64.54
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	7.93
	Total Water Requirement (CMD) :	167.19
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	60 m3
	Excess treated water	85.93
Details of Swimming pool (If any)	Swimming pool is on 5th Podium open to sky with area of 1282 m x520 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:**	20 m
	Size and no of RWH tank(s) and Quantity:	Building 1 : 20 m3 Building 2: 30 m3
	Location of the RWH tank(s):	South Side of the Plot
	Quantity of recharge pits:	Two ring wells
	Size of recharge pits :	Size 1.5 m dia and 7 m depth
	Budgetary allocation (Capital cost) :	1500000
	Budgetary allocation (O & M cost) :	250000
	Details of UGT tanks if any :	Building 2: Domestic UGT capacity : 71,000 liters Flushing UGT capacity: 40,000 liters Firefighting UGT capacity : 3,50,000 liters
35.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	0.215 m3/sec
	Size of SWD:	Internal: 300 mm, External Gutter: 600 mm x 700 mm
Sewage and Waste water	**Sewage generation in KLD:**	Building 1: 57 m3/day, Building 2: 86 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	Three STP's, Building 1: 22 cum/day and 35 cum/day, Building 2: 86 cum/day
	Location & area of the STP:	Area: 149.08 sqm
	Budgetary allocation (Capital cost):	8500000
	Budgetary allocation (O & M cost):	800000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	from labors: 45 kg/day
	Disposal of the construction waste debris:	Construction waste is used in leveling site and labor waste is through authorized vendor
Waste generation in the operation Phase:	**Dry waste:**	160 kg/day
	Wet waste:	254 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	66 kg/day
	STP Sludge (Dry sludge):	25 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Through organic west converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Through authorized vendor
	STP Sludge (Dry sludge):	Landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	On west side of plot
	Area for the storage of waste & other material:	25 sqm
	Area for machinery:	15 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1000000
	O & M cost:	250000

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

43.Green Belt Development	**Total RG area :**	440 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	40
	List of proposed native trees :	As below
	Timeline for completion of plantation :	2 months after project completion

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	BAHAWA	6	Flowering , Medium sized deciduous tree
2	PUTRANJIVA ROXBURBHI	PUTRANJIVA	4	Medium sized evergreen tree
3	LAGERSTROEMIA FLOSREGINEAE	TAMHAN	3	Flowering tree, Medium sized, Indigenous tree
4	MICHELIA CHAMPACA	SONCHAPHA	3	It is best known for its strongly fragrant yellow or white flowers. It is, however, primarily cultivated for its timber, and is also used in urban landscaping. Its aril-covered seeds are highly attractive to birds.
5	AZARDIRACHTA INDICA	NEEM	3	Avenues roadsides for shade, ornamental use, used as windbreak, purifies air
6	MIMUSOPS ELENGI	BAKUL	5	medium-sized evergreen tree
7	MURRAYA PANICULATA	KUNTI	5	tropical, evergreen plant native to Asia
8	MAGNIFERA INDICA	MANGO	3	large evergreen tree
9	PONGAMIA PINNATA	KARANJ	4	Millettia pinnata is a species of tree in the pea family, Fabaceae, native in tropical and temperate Asia
10	SARACA ASOCA	SITA ASHOK	4	Saraca asoca is a plant belonging to the Caesalpinioideae subfamily of the legume family. It is an important tree in the cultural traditions of the Indian subcontinent
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	4868.94 KW
	During Operation phase (Demand load):	2102.08 KW
	Transformer:	As per the requirement
	DG set as Power back-up during operation phase:	500 KVA + 400 KVA
	Fuel used:	130.5 Ltr/Hr @ 500 KVA, 107.5 Ltr/Hr @ 400 KVA
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Power consumed using the conventional method: 1466.16 KW
Power consumed incorporating energy saving methods: 1228.45 KW
% saving : 16.21%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV panels for external lighting	100%
2	VFD control for lift	20%
3	Water pump motors with sensors	20%
4	LED light for common area	24.1%
5	internal LED lighting	61.5%
6	Solar water heater	26.9%

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:**	5000000
	O & M cost:	150000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust suspension	Wind	1.0
2	Site Sanitation, Disinfection & Safety	Sanitation	2.0
3	Environmental Monitoring	Monitoring of Air, water, noise environment	0.3
4	Health check up	NA	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)

1	Waste water	Sewage treatment plant	8500000	800000
2	Solid Waste	Organic waste converter	1000000	250000
3	Green Belt development	Green Belt development	700000	200000
4	Rain water harvesting	Rain water harvesting	1500000	250000
5	Environmental monitoring	Monitoring of Air, water, noise environment	NA	150000
6	Solar water System	Solar water System	5000000	150000

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Two
Parking details:	**Number and area of basement:**	Two basement with area of 1876.94 each
	Number and area of podia:	Five podiums
	Total Parking area:	8111.33 m2
	Area per car:	12.5 m2
	Area per car:	12.5 m2
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	256
	Public Transport:	Mumbai central railway station 800 m from Project site
	Width of all Internal roads (m):	4.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a), B2
	Court cases pending if any	NA

	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

Representative of PP, Mr. Maaz Shaikh & Architect Mr. Dalavi were present during the meeting along with environmental consultant M/s MITCON.

PP informed that they received earlier Ec for the project dated 5th April 2011 for total construction area of 55,223.35 m^2. PP informed that proposal is for expansion due to addition of fungible FSI. The proposal was previously considered in 49th meeting of SEAC-II. PP submitted compliance report which is taken on record.

DECISION OF SEAC

In view of following, the proposal is deferred and shall be considered further after the compliance of above observations submitted for reconsideration.

Specific Conditions by SEAC:

1) It is observed that in compliance point No 2 i.e PP to submit evacuation time analysis, Evacuation time should be less than 30 minutes. In response to this PP submitted evacuation time report only for sale building. PP to submit detailed evacuation time report for entire project.
2) PP to submit revised SOP for fire fighting measures with proper organisational chart
3) PP to submit details of RG area.
4) It is noted that, IOD for full floor height is yet to be submitted to local authority for approval. PP to submit IOD acknowledgement and upload the duly singed & stamped plans.
5) PP to ensure that width of the road for fire tender movement from all sides should be more than 6 m and turning radius should be 9 meters.

FINAL RECOMMENDATION

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

SEAC-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for "Sandhu Palace", Bandra (West), Pali Hill, Mumbai

General Information:

1.Name of Project	"Sandhu Palace", Bandra (West), Pali Hill, Mumbai
2.Type of institution	Private
3.Name of Project Proponent	Mr. Diler Sandhu (Owner)
4.Name of Consultant	Ultra-Tech
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	CTS No 1381, 1382/C, 1378/A, 1629 A/1-10 of village Bandra (West), Pali Hill, Mumbai-400 050.
9.Taluka	Kurla
10.Village	Bandra (West)
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	IOD / Plans Approved on 24/02/2006 and CC upto top of basement on 22/06/2006.
	IOD/IOA/Concession/Plan Approval Number: CE/2157/WS/AH dated 24/02/2006
	Approved Built-up Area: 13178.65
13.Note on the initiated work (If applicable)	Total constructed work (FSI + Non FSI): Building prior to EIA notification 2004: 9222.04 Sq.mt. Buildings after EIA notification dt. 14.09.2006: 40,317.33 Sq.mt. IOD / Plans Approved on 24/02/2006 and CC upto top of basement on 22/06/2006..• The IOD / Plan /CC was granted much before the 14th September, 2006 Notification of MOEF and the complete construction was carried out as per MCGM sanctions, without insisting of MOEF clearance by MCGM at any stage.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	13,592.50 Sq.mt.
16.Deductions	725.65 Sq.mt.
17.Net Plot area	12,866.85 Sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 13,178.65 Sq.mt.
	b) Non FSI area (sq. m.): 27,138.68 Sq.mt.
	c) Total BUA area (sq. m.): 40,317.33 Sq.mt.
19.Total ground coverage (m2)	1377.22 Sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11 %
21.Estimated cost of the project	2062600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 Building - Wing A	2 Basements + Ground + 18 Floors + 19 part Floor	69.02
2	1 Building - Wing B	2 Basements + Ground + 5 Upper Floors	22.24

23.Number of tenants and shops	Flats: 43 nos.
24.Number of expected residents / users	Total Occupancy: 215 nos.
25.Tenant density per hectare	34/Hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	13.70 mt. wide Road

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 mt.
29.Existing structure (s) if any	Total Construction completed as per approval from M.C.G.M.
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**	M.C.G.M.
	Fresh water (CMD):	19
	Recycled water - Flushing (CMD):	10
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	41
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	3
Wet season:	**Source of water**	M.C.G.M. & Rainwater Harvesting tank
	Fresh water (CMD):	19
	Recycled water - Flushing (CMD):	10
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	31
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	13
Details of Swimming pool (If any)	Swimming pool make up : 2 KLD (from Tanker Water of Potable Quality)	

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:**	Not encountered
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of capacity 34 KL
	Location of the RWH tank(s):	Lower Basement Level
	Quantity of recharge pits:	2 nos. of recharge pits
	Size of recharge pits :	2 nos. of recharge pits
	Budgetary allocation (Capital cost) :	Rs.15.00 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.26 Lacs/annum
	Details of UGT tanks if any :	Location(s) of the UGT tank(s): Lower Basement Level
35.Storm water drainage	**Natural water drainage pattern:**	Towards external storm water drain situated at 13.70 m wide road
	Quantity of storm water:	0.53 m3/sec
	Size of SWD:	0.75m x 0.70m deep with the slope of 1: 300
Sewage and Waste water	**Sewage generation in KLD:**	25 KLD
	STP technology:	Rotating Bio-disk Contactor (RBC)
	Capacity of STP (CMD):	1 STP of 40 KL
	Location & area of the STP:	Lower Basement Level
	Budgetary allocation (Capital cost):	Rs. 38.00 Lacs
	Budgetary allocation (O & M cost):	Rs. 7.03 Lacs /annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	29 Kg/day
	Wet waste:	68 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	4 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	M.C.G.M.
	Wet waste:	Organic Waste Converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	24 Sq.mt.
	Area for machinery:	12 Sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9.00 Lacs (Cost for treatment of biodegradable garbage by OWC)
	O & M cost:	Rs. 1.81 Lacs/annum (Cost for treatment of biodegradable garbage by OWC)

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

43.Green Belt Development	**Total RG area :**	3222.52 Sq.mt.
	No of trees to be cut :	NA
	Number of trees to be planted :	Already planted: 250 nos. and Existing tress: 32 nos.
	List of proposed native trees :	The list is given in List of proposed plantation on ground
	Timeline for completion of plantation :	Before occupation

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Areca catechu	Supari	86	The areca nut is not a true nut, but rather a fruit categorized as a berry. It is commercially available in dried, cured and fresh forms. When the husk of the fresh fruit is green, the nut inside is soft enough to be cut with a typical knife. In the ripe fruit, the husk becomes yellow or orange and, as it dries, the fruit inside hardens to a wood-like consistency. At that stage, the areca nut can only be sliced using a special scissors-like cutter.
2	Alstonia scholaris	Devil Tree	1	Evergreen Shady Tree with fragrant flowers, Medicinal properties, white fragrant flowers
3	Polyalthia longifolia	False Ashoka	10	It is commonly planted due to its effectiveness in alleviating noise pollution.
4	Terminalia catappa	Badam	8	It's large tropical tree in the leadwood tree. The seed within the fruit is edible when fully ripe. As the tree gets older, its crown becomes more flattened to form a spreading, vase shape. Its leaves are known for medicinal properties. Shady tree.
5	Bauhinia acuminata	Bauhinia	5	Plant is attractive to bees, butterflies and/or birds. Inflorescence is white in color.
6	Callistemon viminalis	Bottle Brush	27	Callistemon species have commonly been referred to as bottlebrushes because of their cylindrical, brush like flowers resembling a traditional bottle brush.
7	Hyophorbe lagenicaulis	Bottle Palm	25	Bottle palm has a large swollen (sometimes bizarrely so) trunk. It is a myth that the trunk is a means by which the palm stores water. Bottle palm has only four to six leaves open at any time. The flowers of the palm arise from under the crownshaft.
8	Araucaria columnaris	Christmas Tree	2	mas Tree in India, is a tree native to the Cook Island, north-east of Australia in the South Pacific. The bark of the Cook pine peels off in thin paper like sheets. Can reach 60 m in natural habit. But more commonly grown as a house-plant in pots. The relatively short, mostly horizontal branches are in whorls around the slender, upright to slightly leaning trunk.

9	Caryota urens	Fishtail palm	57	Fishtail palm is a fast growing feather palm that makes a beautiful addition to the landscape. It has a gray trunk (grows to about 30') that is covered by regularly spaced leaf scar rings. Toddy palm has a leaf shape that resembles the lower fin of a fish.
10	Howea forsteriana	Kentia Palm	2	The palm is an elegant plant, and is popular for growing indoors, requiring little light.
11	Plumeria alba	White frangipani	13	Evergreen shrub has narrow elongated leaves, large and strongly perfumed white flowers with a yellow center, Planted as an ornamental plant Heart of the wood is part of a traditional medical preparation taken as a vermifuge or as a laxative.
12	Magnolia champaca	Sonchapa	4	Evergreen shrub has narrow elongated leaves, large and strongly perfumed white flowers with a yellow center, Planted as an ornamental plant Heart of the wood is part of a traditional medical preparation taken as a vermifuge or as a laxative.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	1816 KW
	During Operation phase (Demand load):	1104 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	1DG set of 630 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of Solar water heating system.
Use of Solar lighting for Street, Landscape, Corridor & Staircase.
Use of LED lights in common areas and parking areas .
Use of electronic ballast .

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Use of Solar water heating system. Use of Solar lighting for Street, Landscape, Corridor & Staircase. Use of LED lights in common areas and parking areas . Use of electronic ballast .	23%

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. 48.24 Lacs (Solar system)
	O & M cost:	Rs 1.45 Lacs/annum (Solar system)

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Noise Environment & Biological Environment	Cost for Gardening, Cost for Ambient air & Noise Monitoring, Cost for DG Stack Exhaust Monitoring	17.72	1.47
2	Water Environment - Waste water treatment	Cost for Sewage Treatment Plant, Cost for STP sensors, Waste water monitoring	38.00	7.03
3	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH details (Recharge Pits) , Cost for RWH details (RWH tank), Cost for treatment unit for rain water tanks, Cost for Rainwater Monitoring	15.00	0.26
4	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC, Cost for monitoring of organic manure	9.00	1.85
5	Energy Conservation	Solar system	48.24	1.45
6	Cost Towards Disaster management	--	429.80	30.53

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:	3 Entry and Exits.

Parking details:	**Number and area of basement:**	2 Basements
	Number and area of podia:	NA
	Total Parking area:	9,412.50 Sq.mt.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required: Nil and Provision: 43 nos.
	Number of 4-Wheelers as approved by competent authority:	Required: 108 nos. and Provision: 226 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6.0 m.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	Yes , Appeal (L)/82/2014. Bombay High Court Suit No 109 of 2013, Suit No 345 of 2014
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-05-2016

Brief information of the project by SEAC

PP Mr Kanverjit Singh Sandhu from M/s Sandhu builders with Consultant Ultra Tech were present in the meeting. It was reported by the pp that building plans for wing A and Wing B were approved by MCGM on 24th February, 2006 and Commencement Certificate was issued on 22/06/2006. The original plan approved was for BUA of 14013.72sqm . The plans were subsequently amended in October 2008, May 2010 and 11th May 2011 with addition of BUA 35910.09, 40710.19, and 40317.33 sqm respectively without obtaining EC.

DECISION OF SEAC

After deliberation, **Committee observed that expansion of the project undertaken without prior EC is violation of the provisions of EIA Notification. Therefore committee decided to refer the matter of alleged violation to SEIAA for further necessary action.**

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-II decided to refer the proposal to SEIAA/Environment Department for verification of above mentioned violation.

SEAC-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for EXPANSION OF PROPOSED RESIDENTIAL-CUM SHOPLINE BUILDINGS

General Information:

1.Name of Project	PROPOSED RESIDENTIAL-CUM SHOPLINE BUILDINGS
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Sagar Pravin Raut, Viva Holdings
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Residential 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	OBTAINED PRIOR ENVIRONMENTAL CLEARANCE FROM MOEF & CC VIDE LETTER NO. 21-161/2014-IA. III DATED 18.06.2015
8.Location of the project	LAND BEARING S.NO.54,H.NO.6, S.NO.58 H.NO.2(pt), S.NO.59 H.NO.1, S.NO.62, S.NO.63, S.NO.78,H.NO.1,2,3,5,6,8,9,10, S.NO.79,H.NO.1, 2,3,4,5,6,7,8,9,10,11, S.NO.80,H.NO.1/P,1/P,1/P, S.NO.81,S.NO.82,H.NO.4, S.NO.83,H.NO.3 OF VILLAGE, MORE S.NO.192,H.NO.1,2,3,4, S.NO.193(pt) VILLAGE- VIRAR, TALUKA- VASAI, DIST- PALGHAR.
9.Taluka	Vasai
10.Village	More, Virar
11.Area of the project	Vasai Virar City Municipal Corporation (VVCMC)
12.IOD/IOA/Concession/Plan Approval Number	VVCMC approval
	IOD/IOA/Concession/Plan Approval Number: VVCMC/TP/NANOC/VP5568&5287/13884/2015-16 dated 25/08/2015
	Approved Built-up Area: 48708.08
13.Note on the initiated work (If applicable)	No work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	78,390 m2
16.Deductions	32,929.74 m2
17.Net Plot area	45,460.26 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,23,037.60 m2
	b) Non FSI area (sq. m.): 80, 290.42 m2
	c) Total BUA area (sq. m.): 2, 03, 328.02 m2
19.Total ground coverage (m2)	8595 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26%
21.Estimated cost of the project	4000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building no. 1	Wing A: Spt+21 & Wing B: S+2	64.20 m
2	Building No. 2	Wing A: St+18 & Wing B,C,D: St(pt)+18	55.65 m
3	Building No. 3	Wing A, B, C, D, E: St(pt)+18	55.65 m
4	Building No. 4	Wing A, B, C, D:	55.65 m
5	Building No. 5	Wing A, B, C:	55.65 m
6	Building No. 6	Wing A, B, C, D:	55.65 m

23.Number of tenants and shops	Tenants: 3560 nos, Shops: 203 nos
24.Number of expected residents / users	17902 nos
25.Tenant density per hectare	454 tenants / hector
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project site is accessible by Virar-Nalasopara link Road, 20.m, 30 m and 40 m wide D.P. road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
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**	VVCMC
	Fresh water (CMD):	1604
	Recycled water - Flushing (CMD):	804
	Recycled water - Gardening (CMD):	46
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	2408
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	1376
Wet season:	**Source of water**	VVCMC
	Fresh water (CMD):	1478
	Recycled water - Flushing (CMD):	804
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	2408
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	1376
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:**	5-7m
	Size and no of RWH tank(s) and Quantity:	Total Capacity= 250 m3, Total 20 nos of tanks
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	20
	Size of recharge pits :	3.63 m x 1.5 m x 1.5 m
	Budgetary allocation (Capital cost) :	58 lakh
	Budgetary allocation (O & M cost) :	6 lakh/year
	Details of UGT tanks if any :	--
35.Storm water drainage	**Natural water drainage pattern:**	Towards North
	Quantity of storm water:	2.4 m3/s
	Size of SWD:	750mmx 600mm, 400mm x350mm
Sewage and Waste water	**Sewage generation in KLD:**	2247 KLD
	STP technology:	Oxic Anoxic
	Capacity of STP (CMD):	2 nos of STP with total capacity 2350 m3/day
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	470 lakh
	Budgetary allocation (O & M cost):	94 lakh /yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	6000 m3
	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:**	3568 kg/day
	Wet waste:	5352 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	22
	Others if any:	NA

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):	will be used as manure
	Others if any:	--
Area requirement:	**Location(s):**	on ground
	Area for the storage of waste & other material:	170 m2
	Area for machinery:	180 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	214 lakh
	O & M cost:	85 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

43.Green Belt Development	**Total RG area :**	9108 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	610 nos
	List of proposed native trees :	Shirish, Neem, Maharuk, Satwin, Sita Ashok, Bahava, Bakul, Parijatak, Tamhan, Kunti, Shivan, Apta, Palas, Nandruk, Son chafa, Putranjiva, Satwin
	Timeline for completion of plantation :	6 months from completion of buildings

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	38	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	40	Large tree, good for roadside plantation
3	Ailanthus excelsa	Maharukh	27	Large tree, good for roadside plantation
4	Ficus retusa	Nandruk	33	Shady tree, good for roadside plantation
5	Alstonia scholaris	Satwin	37	Shady Tree, white fragrant flowers
6	Saraca asoka	Sita Ashok	35	Shady tree with red-yellow flowers.
7	Cassia fistula	Bahava	39	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
8	Mimusops elengi	Bakul	45	Shady tree, small white fragrant flowers
9	Nyctanthes arbor-tristis	Parijatak	40	Small deciduous fast growing tree, beautiful flowrers.
10	Lagerstroemia flos-regineae	Tamhan	27	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
11	Murraya paniculata	Kunti	40	Small tree, Fragrant white flowers, Butterfly host plant
12	Gmelina arborea	Shivan	38	Fast growing tree with beautiful yellow flowers
13	Bauhinia racemosa	Apta	42	Small tree with small white flowers, Butterfly host plant
14	Butea monosperma	Palas	38	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
15	Michelia champaca	Son Chafa	34	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
16	Putranjiva roxburghii	Putranjiva	30	Medium sized evergreen tree,
17	Citrus sp	Lemon	27	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

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	400 kVA
	DG set as Power back-up during construction phase	400 kVA
	During Operation phase (Connected load):	21 mW
	During Operation phase (Demand load):	11 mW
	Transformer:	--
	DG set as Power back-up during operation phase:	2500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

Provision of Solar hot water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement • Use of AC and façade system to reduce heat gain and power consumption • Use of low-e glass to reduce power requirement • Solar lighting in common areas, garden and road • Solar hot water for residential buildings • Solar street lights will be proposed • Energy efficient lighting fixtures (LED lights) to all buildings	20.97%

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	--	5
2	Site sanitation (Toilets)	--	6
3	Environmental Monitoring	(As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	3
4	Potable Water Supply to Labour Camp	--	5

5	Health check-up & first aid	--	6
6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	10
7	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	3
8	Safety nets	--	12
9	Tyre cleaning and Vehicle maintenance	--	3
10	Solid Waste Management & Site maintenance activity	--	4
11	Safety - Training to Workers (Twice in Year), Safety Officer	--	7
12	Total	--	64

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	470	94
2	Solar System	--	100	5
3	Rain Water Harvesting	--	58	6
4	Solid waste Composting plant	--	214	85
5	Landscape development	--	91	14
6	Total	--	933	204

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:	3

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	--
	Area per car:	28 m2
	Area per car:	28 m2
	Number of 2-Wheelers as approved by competent authority:	3948
	Number of 4-Wheelers as approved by competent authority:	1183
	Public Transport:	--
	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	6.5 km from Tungareshwar wildlife sanctuary
	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	01-03-2017

Brief information of the project by SEAC

PP, Mr. Sindhant Vaze & Architect Mr. Ajay Wade were present during the meeting along with environmental consultant Mr. D.A.Patil. The proposal was discussed on the basis of the draft ToR for expansion of the residential project presented by the PP.

It is noted that FSI area stated in Form 1, 1A is 123037.60 sq.m and Total Built up Area is 203328.02 sq.m while in presentation it was mentioned as 1,25,623.86 sq.m and 2,16,412.03 sq.m respectively. PP stated that the difference is due to CFC area of 2727.61 m^2.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to ensure that stack parking is not allowed. Further, design of Puzzle parking tower should be with 30 minutes of evacuation time. Per car area for car parking should be as per NBC norms and same should be reflected in the plans. PP to submit revised plans accordingly.
2) PP to submit Internal Light and Ventilation study report for lower floors. It is suggested that attempt should be made to cut the building at appropriate point for proper ventilation particularly for building no 2 and 3 and change the plan accordingly.
3) PP to ensure that RG of 9092 sq.m should be on Mother Earth.
4) PP to ensure that BOD of the treated waste water is less than 5 mg/lit and 60% of the treated waste water should be recycled/ reused.
5) PP to submit Social Impact Assessment of the project on nearby areas.
6) PP to submit contour plan of site and 500 m around the project site, superimposing drainage pattern on the same along with design calculations.
7) PP to submit permission letters from local body for water supply, sewerage etc
8) PP to also refer Standard ToR published by MoEF vide order dated 10/04/15 in addition to above.

FINAL RECOMMENDATION

Kindly find SEAC decision above.

SEAC-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for Proposed SRA Scheme Project of Shivaji Nagar (Chembur) SRA Co –Op Hsg. Soc. Ltd.

General Information:

1.Name of Project	Proposed SRA Scheme Project of Shivaji Nagar (Chembur) SRA Co –Op Hsg. Soc. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Surendrakumar Surana
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Proposed Residential Cum Commercial Project with SRA Scheme for Shivaji Nagar (Chembur) SRA Co-Op Hsg. Soc. Ltd.
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. 385 of Chembur Division, Chembur, Mumbai, Maharashtra
9.Taluka	Mumbai
10.Village	Chembur
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	LOI letter No. SRA/ENG/1370/MW/MHL/LOI 27.04.2007, LOI Received Vide Letter No. SRA/ENG/1370/MW/MHL/LOI dt. 27.09.2016
	IOD/IOA/Concession/Plan Approval Number: LOI letter No. SRA/ENG/1370/MW/MHL/LOI 27.04.2007, LOI Received Vide Letter No. SRA/ENG/1370/MW/MHL/LOI dt. 27.09.2016
	Approved Built-up Area: 16068
13.Note on the initiated work (If applicable)	Work started on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI letter No. SRA/ENG/1370/MW/MHL/LOI 27.04.2007 LOI Received Vide Letter No. SRA/ENG/1370/MW/MHL/LOI dt. 27.09.2016
15.Total Plot Area (sq. m.)	4,017.00 m2
16.Deductions	710.50 m2
17.Net Plot area	3,306.50 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 17,469.76
	b) Non FSI area (sq. m.): 10,513.69
	c) Total BUA area (sq. m.): 27,983.45
19.Total ground coverage (m2)	1745.47
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43.4%
21.Estimated cost of the project	602400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Building	2B+G+1st to 15th floors (pt)	47.85 m
2	Sale Building	2B+G+1st to 13th floors (pt)	42.05 m

23.Number of tenants and shops	Rehab Building : 189 Flats, Shops 70 Nos Sale commercial: 132 Nos.
24.Number of expected residents / users	1608 Nos.
25.Tenant density per hectare	472.5/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)	27.40 m wide S.G. Barve on West Side and V. N. Purav Marg on South Side

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 6 m
29.Existing structure (s) if any	Existing 266 Nos. of slums on site were demolished
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 Corporation of Greater Mumbai
	Fresh water (CMD):	97
	Recycled water - Flushing (CMD):	63
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	160
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	41
Wet season:	**Source of water**	Municipal Corporation of Greater Mumbai
	Fresh water (CMD):	63
	Recycled water - Flushing (CMD):	63
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	160
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	43
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:**	3 – 4 m
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of total 70 m3
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	16 Lacs
	Budgetary allocation (O & M cost) :	1 Lacs/year
	Details of UGT tanks if any :	Underground Tanks are provided
35.Storm water drainage	**Natural water drainage pattern:**	Towards North to South East direction of plot
	Quantity of storm water:	462.58 m3/hr
	Size of SWD:	400 mm x 500 mm
Sewage and Waste water	**Sewage generation in KLD:**	150 KLD
	STP technology:	Oxic - Anoxic Technology
	Capacity of STP (CMD):	Total capacity 175 KLD
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	. 44 Lacs
	Budgetary allocation (O & M cost):	11 Lacs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 671m3
	Disposal of the construction waste debris:	The construction debris is utilized at site for levelling.
Waste generation in the operation Phase:	**Dry waste:**	242 kg/day
	Wet waste:	363 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	2.0 m3/day
	Others if any:	NA

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:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Location on Ground
	Area for the storage of waste & other material:	35 m2
	Area for machinery:	20 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16 Lacs
	O & M cost:	Rs. 6 Lacs/year

37.Effluent Charecterestics

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

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 :**	324.09 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	50
	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	Satwin	05	Shady Tree, white fragrant flowers
2	Bauhinia racemosa	Apta	04	Small tree with small white flowers, Butterfly host plant
3	Cassia fistula	Bahava	06	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
4	Lagerstroemia flos-regineae	Tamhan	07	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
5	Albizia lebbeck	Shirish	06	Shady tree, yellowish green fragrant flowers
6	Pongamia pinnata	Karanj	05	Shady tree.
7	Nyctanthes arbor-tristis	Parijatak	06	Small deciduous fast growing tree, beautiful flowrers.
8	Michelia champaca	Son chafa	05	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
9	Azadirachta indica	Neem	06	Semi-evergreen tree with medicinal value
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	RELIANCE ENERGY
	During Construction Phase: (Demand Load)	220 kVA
	DG set as Power back-up during construction phase	220 kVA
	During Operation phase (Connected load):	2.4 MW
	During Operation phase (Demand load):	1.5 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total DG set capacity 1 x 330 kVA capacity
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Efficient wall systems like solid blocks with fly ash content,
• Energy conservation measures taken by using low energy consuming fixtures like, T5 lamps, CFLs in flats and LEDs in Lift, Lobby, and Passages
• Solar Hot water system to buildings
• Use of high energy efficient pumps for fire fighting, UG tanks and STP
• Use of low-e glass to reduce power requirement
• Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving 20.74%	Total Energy Saving 20.74%

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:**	18 Lacs
	O & M cost:	1 Lacs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	One water Tanker to spray water	3
2	Site sanitation (Toilets)	-	3
3	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time	2
4	Potable Water Supply to Labour Camp	-	4
5	Health check-up & first aid	-	6
6	Safety Personal Protective Equipment	Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc	6
7	Traffic Management	Sign Boards, Persons at entry exit and Parking area	3
8	Safety nets	-	10
9	Tyre cleaning and Vehicle maintenance	-	3
10	Solid Waste Management & Site maintenance activity	-	4
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	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)	-	44	11
2	Solar System	-	18	1
3	Rain Water Harvesting	-	16	1

4	Solid waste Composting plant	-	16	6
5	Landscape development	-	3	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
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:	Site is directly accessible from main road
Parking details:	**Number and area of basement:**	3,115.56 m2 (Building A)
	Number and area of podia:	Nil
	Total Parking area:	2966.13 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	50 Nos
	Number of 4-Wheelers as approved by competent authority:	106 Nos
	Public Transport:	-
	Width of all Internal roads (m):	-
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	Nil
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-09-2016

Brief information of the project by SEAC

PP, Mr. Sandeep Pisat & Architect Mr. Nirag Pangum were present during the meeting along with environmental consultant Mr. D.A.Patil.

Pp informed that project is for SRA with original BUA of 12051 sq m and total construction area of 19642 sqm based on 3 FSI. PP undertaken construction up to 16510.88 sqm and now proposal is submitted for expansion due to 4 FSI available due to change in policy from September, 2016. Due to this increase in FSI now total construction area is 27983.45 sqm.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed.

PP stated that total plot area is 4017 m^2 & total construction area (FSI+Non FSI) of the project is 27983.45m^2. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

In view of following, the proposal is deferred and shall be considered further after the compliance of above observations submitted for reconsideration.

Specific Conditions by SEAC:

1) PP to revise Fire tender movement plan to provide 6 meter drive way between rehab and commercial wing for providing access to fire tender in central part of the rehab component and to submit revised plan.
2) PP to ensure that width of the road for fire tender movement from all sides should be more than 6 m and turning radius should be 9 meters.
3) Committee noted that proposed STP and MSW are located on RG area. Both should not be on RG. PP to relocate the same and indicate same on revised plan.
4) PP to provide RG of 328 sqm to be open to sky on the ground.
5) PP to provide details of the mechanical ventilation, its capacity and to provide air purification system along with calculations of air exchangers.
6) PP to upload the approved plans of the project/ plans submitted for approval to the local body, Disaster Management Plan, Environmental Management Plan, traffic study and other above said compliances etc on the website of ec.mpcb.in

FINAL RECOMMENDATION

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

SEAC-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for Application for Revalidation of Environment Clearance

General Information:

1.Name of Project	Application for Revalidation of Environment Clearance For the project â??Residential and Commercial project Mayfair Virar Gardenâ?? by Mayfair Housing at Village Bolinj, Virar West, Taluka-Vasai, Dist-Thane, Maharashtra.
2.Type of institution	Private
3.Name of Project Proponent	Mayfair Housing - Mr. Ram Mehta
4.Name of Consultant	Mahabal Enviro Engineers Ltd. Thane, Maharashtra
5.Type of project	Residential and Commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Revalidation of Existing Environment Clearance
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environment Clearance is obtained for the existing project vide Flie No. F. No. 21-614/2006-IA.III Dated 21st May 2007 from MoEF
8.Location of the project	Plot bearing S. No 195, 1, 2, S. No.212 H. No.1, 3, 4 & 6/2, S. No.213, 214, 215, 216, S. No.223, H. No.1, 2, 3, S.No.224, H. No.1, 3 to 18, S. No. 225, H. No. 1, 3/1 & 3/2, S. No.227, H. No.1 & 2, S. No. 228, H. No.3/2, S. No. 211, H. No.11/1/3, 14/1, S. No. 225, H .No. 2/1,2/2 , 4 (P),5, 8, S. No. 226, H. No. 3/2, S. No. 227, H. No.5/1, 4/1, 3/1, S. No. 212, H. No. 2, S. No. 211, H. No. 2/6/1/1, 3/1 of Village Bolinj, Virar West, Taluka-Vasai, Dist-Thane, Maharashtra.
9.Taluka	Vasai
10.Village	Bolinj
11.Area of the project	Vasai Virar City Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate issued by CIDCO u. no. CIDCO/VVSR/CC/BP-2910/W/61 dated 25.08.2004 & Amendment NOC for N.A. NOC and Amended Plan Approval issued by CIDCO u. No. CIDCO/VVSR/AM/BP-2910/W/961 Dated: 29.12.2004
	IOD/IOA/Concession/Plan Approval Number: Commencement Certificate issued by CIDCO u. no. CIDCO/VVSR/CC/BP-2910/W/61 dated 25.08.2004 & Amendment NOC for N.A. NOC and Amended Plan Approval issued by CIDCO u. No. CIDCO/VVSR/AM/BP-2910/W/961 Dated: 29.12.2004
	Approved Built-up Area: 118297
13.Note on the initiated work (If applicable)	We had completed construction of 18 buildings as per Environment Clearance copy recieved
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	93,230 sq.mt.
16.Deductions	-
17.Net Plot area	93,230 sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,18,297 sq.mt.
	b) Non FSI area (sq. m.): -
	c) Total BUA area (sq. m.): 1,18,297 sq.mt.
19.Total ground coverage (m2)	11,600 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12.4%
21.Estimated cost of the project	646900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential Buildings (35 Nos)	Ground + 7 Floors	23.80 m
2	Commercial	-	3.20 m
3	School	-	15 m
4	Club House	-	-
5	Club House	-	-

23.Number of tenants and shops	1,667 Nos of tenants
24.Number of expected residents / users	16,603 Nos

25.Tenant density per hectare	179/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 D. P. Road, Internal road 20 m & 12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12 meter
29.Existing structure (s) if any	Yes, as per EC
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**	Vasai Virar City Municipal Corporation
	Fresh water (CMD):	820
	Recycled water - Flushing (CMD):	480
	Recycled water - Gardening (CMD):	196
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	1,496
	Fire fighting - Underground water tank(CMD):	Not Applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	333

Wet season:	**Source of water**	Vasai Virar City Municipal Corporation
	Fresh water (CMD):	820
	Recycled water - Flushing (CMD):	480
	Recycled water - Gardening (CMD):	148
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	1,496
	Fire fighting - Underground water tank(CMD):	Not Applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	381
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:**	3.8 m
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	15 Nos of (Rain Water) recharge pits
	Size of recharge pits :	Dimensions of Recharge pit: 10 m x 20 m x 1.35 m
	Budgetary allocation (Capital cost) :	Rs.19.5 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.2 Lakh
	Details of UGT tanks if any :	18 nos of UGT tanks having different capacities are provided which are interconnected.

35.Storm water drainage	**Natural water drainage pattern:**	Along with internal road side & as per contour slope of the plot
	Quantity of storm water:	2.5897 m3/sec
	Size of SWD:	0.9 m x 0.850 m

Sewage and Waste water	**Sewage generation in KLD:**	1,040
	STP technology:	Membrane Bioreactor Technology (MBR)
	Capacity of STP (CMD):	1 No. x 750 m3/day and 1 No. x 350 m3/day
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	Rs.90 Lakh
	Budgetary allocation (O & M cost):	Rs.0.9 Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	280 m3/day
	Disposal of the construction waste debris:	Construction waste debris is used for back filling and leveling of the plot and remaining will be disposed to authorized dealers
Waste generation in the operation Phase:	**Dry waste:**	2,264 kg/day
	Wet waste:	3,397 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	10 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	1. Packaging type waste is sold to authorized dealers, 2. Recyclable waste is also sold to authorized dealers and 3. Non-Recyclable waste is utilized by filling it in a low lying areas.
	Wet waste:	It is composted by vermi composting methods and also handled by municipal corporation
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposes 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:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.6 Lakh
	O & M cost:	Rs.0.6 Lakh

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		

43.Green Belt Development	**Total RG area :**	15,070.97 sq.mt.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	657 Nos
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	One to Two Years (partly completed)

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	Spathodea compunalata	Spathodea / Fountain Tree	31	Commonly known as the African tulip tree This tree is planted extensively as an ornamental tree throughout the tropics and is much appreciated for its very showy reddish-orange or crimson (rarely yellow), campanulate flowers
2	Roystonea regia	Bottle Palm	25	Roystonea regia, commonly known as the Cuban royal palm. Its flowers are visited by birds and bats, and it serves as a roosting site and food source for a variety of animals
3	Plumeria alba	Plumeria	10	Flowering plant, shrub type, Plumeria flowers are most fragrant at night
4	Mimusops elengli	Bakul	5	Mimusops elengi is a medium-sized evergreen tree found in tropical forests in South Asia its timber is valuable, the fruit is edible, and it is used in traditional medicine
5	Acacia auticuliformis	Acacia	4	Acacia auriculiformis is an evergreen tree that grows between to 15â??30 m tall This plant is raised as an ornamental plant, as a shade tree and it is also raised on plantations for fuelwood throughout southeast Asia
6	Terminalia catappa	False almond, Badam	30	Terminalia catappa is a large tropical tree. The tree grows to 35 m. The fruit is edible, tasting slightly acidic.

7	Peltophorum spp.	Peltophorum	40	It is a deciduous tree growing to 15â??25 m. The wood has a wide variety of uses, including cabinet-making and the foliage is used as a fodder crop
8	Azadirachta indica	Neem	6	Young leaves are reddish to purple in color and turn into dark green pinnate leaves on maturity Neem products have medicinal properties that prove to be anthelmintic, antifungal, anti-diabetic, antibacterial, antiviral, anti-fertility and sedative. Neem is a fast-growing tree, height is 15-20 m. Evergreen tree.
9	Tabeuia argentina	Tabeuia	227	The wood of Tabebuia is light to medium in weight is an important timber tree of tropical America
10	Samania saman	Rain Tree	9	Saman is a wide-canopied tree with a large symmetrical crown. It usually reaches a height of 25 m Its origin is the moisture that collects on the ground under the tree, largely the honeydew-like discharge of cicadas feeding on the leaves.
11	Delonix regia	Gulmohar	34	Delonix regia is a species of flowering plant. The flowers of Delonix regia are large, with four spreading scarlet or orange-red petals up to 8 cm long
12	Ficus religiosa	Pimpal	6	Ficus religiosa or sacred fig is a species of fig native to the Indian subcontinent Ficus religiosa is a large dry season-deciduous or semi-evergreen tree up to 30 metres (98 ft) tall and with a trunk diameter of up to 3 metres (9.8 ft).
13	Cocus nucifera	Coconut	91	Coconuts are known for their great versatility, as evidenced by many traditional uses, ranging from food to cosmetics
14	Lagestromia indica	Lagerstromia	24	Lagerstroemia commonly known as crape myrtle or crepe myrtle "banaba" Crepe myrtles are chiefly known for their colorful and long-lasting flowers which occur in summer.
15	Cacia fistula	Bahava	5	Flowering tree. Golden shower tree is a medium-sized tree, growing to 10-20 m. Tree has strong and very durable wood, & has been used to construct. Also having Medicinal use
16	Polyathea longifolia	Ashoka	57	Polyalthia longifolia (False Ashoka) is a lofty evergreen tree, native to India, commonly planted due to its effectiveness in alleviating noise pollution. It exhibits symmetrical pyramidal growth with willowy weeping pendulous branches and long narrow lanceolate leaves with undulate margins. The tree is known to grow over 30 ft in height
17	Alstonia scholaris	Alstonia	20	It is an evergreen tropical tree The wood of Alstonia scholaris has been recommended for the manufacture of pencils, as it is suitable in nature and the tree grows rapidly and is easy to cultivate

18	Thevitia nerifolium	Thevitia	6	Cascabela thevetia (syn: Thevetia peruviana) is a poisonous plant native to central and southern Mexico and Central America, and cultivated widely as an ornamental plant
19	Mangifera indica	Mango	1	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet
20	Cordia sebestena	Corda	3	Cordia sebestena is a shrubby tree Cordia sebestena grows to a maximum height of 25-30 feet at maturity
21	Phoenix dectylifera	Date palm	2	Phoenix dactylifera, commonly known as date or date palm Date trees typically reach about 21â??23 metres (69â??75 ft) in height
22	Tamarindus indica	Tamrind	3	Tamarind (Tamarindus indica) is a leguminous tree The tamarind tree produces edible, pod-like fruit which is used extensively in cuisines around the world
23	Artocarpus heterophyllus	Jack fruit	2	It is native to parts of South and Southeast Asia its fruit is the largest tree-borne fruit, reaching as much as 35 kg (80 lb) in weight, 90 cm (35 in) in length, and 50 cm (20 in) in diameter
24	Eugenia jambulana	Jamun	7	A slow growing species, it can reach heights of up to 30 m and can live more than 100 years. Its dense foliage provides shade and is grown just for its ornamental value
25	Anthocepahalus kadamba	Kadamb	4	kadam locally, is an evergreen, tropical tree native to South and Southeast Asia A fully mature kadam tree can reach up to 45 m (148 ft) in height. It is a large tree with a broad crown and straight cylindrical bole
26	Acarpus sapota	Sapota	5	Mamey sapote is a large and highly ornamental evergreen tree that can reach a height of 15 to 45 meters (49 to 148 ft) at maturity The fruit is eaten raw or made into milkshakes, smoothies, ice cream and fruit bars. It can be used to produce marmalade and jelly
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 :**	Maharashtra State Electricity Board
	During Construction Phase: (Demand Load)	29.92 kW
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	6,611.49 kW
	During Operation phase (Demand load):	-
	Transformer:	2 Nos of Transformers having Capacity 2,500 kVA and 8 Nos of Transformers having Capacity 500 kVA
	DG set as Power back-up during operation phase:	For Commercial Buildings: 2 Nos, For Lift, Street and Staircase lighting: 6 Nos
	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:

â?¢ Use of Capacitors
â?¢ Use of CFL lightings
â?¢ Use of solar energy for hot water and Landscape lightings
â?¢ Use of energy efficient electrical appliances such as AC, Bulbs and mechanical ventilation system
â?¢ Automatic sensor operated flushing system and water supply system
â?¢ Use of high energy efficient lamp with higher efficiency lumens/watt
â?¢ External lighting will be through photocell and timer with dual wattage ballast which reduces the lux level by 50% during night hours
â?¢ Occupancy sensor and daylight sensor in all the toilets, utility rooms, plant room & mechanical rooms (switched on/off by sensing occupancy)
â?¢ Use of STP treated waste water for AC, Fire Fighting and Gardening
â?¢ By adopting all these methods the energy conservation will be reduced rather than using conventional electrical appliances
â?¢ Solar Panel: for street lighting and Hot water:
â?¢ Solar panel for street lighting is 20 no.
â?¢ Solar panel for Hot water is 16 no.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	-	-

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.7.53 Lakh
	O & M cost:	Rs.0.8 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	Not applicable	Not applicable	Not applicable

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Solar Lighting	Installation & Maintenance	3.8	0.4

2	S.T.P.	BOD, COD pH, Colour, Odour, TDS, Oil & Grease	90	0.9
3	Rain Water Harvesting	Construction & Maintenance	19.5	0.2
4	Landscaping	Soil, water, Trees	7.53	0.8
5	MSW	Construction & Maintenance	6.0	0.6

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:	One No.
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	As per VVCMC approval
	Area per car:	12.5 sq.m.
	Area per car:	12.5 sq.m.
	Number of 2-Wheelers as approved by competent authority:	700
	Number of 4-Wheelers as approved by competent authority:	892
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	9 meter
	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. Mayfair Virar Garden is a residential and commercial project at Village: Bolinj, Virar (W), Taluka: Vasai, Dist: Thane, Maharashtra.2. We have received Environment Clearance file No: F. No. 21-614/2006-IA.III dated: 21st May 2007 from MoEF.3. We had applied for Re-validation of Environment Clearance on MoEF having File No: 21-614/2006-IA.III Dated: 14.09.20164. We have completed the construction of 18 Buildings as per EC & stop the construction in April, 2012. (part project was completed)5. We have submitted application on MoEF and received the File No. SIA/MH/NCP/17257/2007.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-09-2016

Brief information of the project by SEAC

PP, Mr. Ram Mehta & Architect Mr. Bagul were present during the meeting along with environmental consultant M/s Mahabal Enviro Engineers.

DECISION OF SEAC

PP informed that they have already received ToR for expansion of the project. Application for validity extension was after the expiry of validity. **Therefore *the proposal is deferred and* committee decided to consider the application afresh.**

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-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for Residential development at Plot-4, Sec. 23, Kharghar, Navi Mumbai.

General Information:

1.Name of Project	Proposed Project
2.Type of institution	Private
3.Name of Project Proponent	Babubhai Virjibhai Patel
4.Name of Consultant	Building Environment (I) Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. 4, Sector 23, Kharghar
9.Taluka	Raigad
10.Village	NA
11.Area of the project	CIDCO
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate
	IOD/IOA/Concession/Plan Approval Number: Commencement certificate in process
	Approved Built-up Area: 42887.23
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI
15.Total Plot Area (sq. m.)	8694.031
16.Deductions	NIL
17.Net Plot area	8694.031
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 13039.413
	b) Non FSI area (sq. m.): 29847.817
	c) Total BUA area (sq. m.): 42887.23
19.Total ground coverage (m2)	5158.507 SQ.M.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	59.33
21.Estimated cost of the project	2152800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	2 Proposed building + 4 wings	Ground To 27 upper Floor (A & B WING); Ground To 25 upper Floor (C & D WING)	89.55

23.Number of tenants and shops	182 flats and 34 Shops
24.Number of expected residents / users	1012
25.Tenant density per hectare	248.45
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	21 M

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 Mt.
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**	CIDCO
	Fresh water (CMD):	83.94
	Recycled water - Flushing (CMD):	43.50
	Recycled water - Gardening (CMD):	32.45
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	88.94
	Fire fighting - Underground water tank(CMD):	4.0 lac litres
	Fire fighting - Overhead water tank(CMD):	30000 litres / wing
	Excess treated water	24.50
Wet season:	**Source of water**	CIDCO
	Fresh water (CMD):	83.94
	Recycled water - Flushing (CMD):	43.50
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	0.00
	Total Water Requirement (CMD) :	83.94
	Fire fighting - Underground water tank(CMD):	4.0 lac litres
	Fire fighting - Overhead water tank(CMD):	30000 litres / wing
	Excess treated water	56.95
Details of Swimming pool (If any)	165.966 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	NA	NA	NA	NA	NA	NA	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 - 4 M
	Size and no of RWH tank(s) and Quantity:	1 tank of 50000 litres
	Location of the RWH tank(s):	On ground
	Quantity of recharge pits:	pits not proposed as water table is high
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	9.0 Lacs
	Budgetary allocation (O & M cost) :	1.0 lacs/year
	Details of UGT tanks if any :	Fire tank: 2,61,000 L & 1,36, 500 L Domestic tank: 1, 15, 000 L Flushing tank: 50,000 L
35.Storm water drainage	**Natural water drainage pattern:**	The storm drainage above ground will essentially cater for the seasonal rains. The major part of discharge will be from the roof. The flat roof will have a general slope of 1 in 100 in the screed towards the periphery. Rain water outlets will be provided at the edges from where it will be carried down by UPVC agriculture pipes to discharge water into storm water entrance chambers below ground. The rainfall intensity considered for design is 100 mm per hour. The basement drainage will be through
	Quantity of storm water:	3.33 m3/sec
	Size of SWD:	450 mm x 450 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	114.45
	STP technology:	Microfilteration technology based on KSQ Flat sheet membrane
	Capacity of STP (CMD):	1 STP Capacity of 120 KLD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	26 Lacs
	Budgetary allocation (O & M cost):	3.50 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated soil will be used in land leveling purpose & construction debris will be handed over to authorised agency.
	Disposal of the construction waste debris:	Construction debris will be handed over to Authorised agency.
Waste generation in the operation Phase:	**Dry waste:**	136.79 Kg/Day
	Wet waste:	319.18 Kg/Day
	Hazardous waste:	Cannot be quantified at this stage.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	3 Kg/Day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Supplied to authorised vendors.
	Wet waste:	Composting through OWC & used at site/as manure
	Hazardous waste:	Shall be handed over to Authorised common Hazardous waste disposal site.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure within the premises for plants. Excess shall be sold /handover to outside parties or gardens.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	70 Sq. Mt.
	Area for machinery:	30 Sq. Mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	21 Lacs
	O & M cost:	2.50 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

43.Green Belt Development	**Total RG area :**	6489.69
	No of trees to be cut :	Nil
	Number of trees to be planted :	108
	List of proposed native trees :	Lemon, Parijata, Bahava, Apta, Sita Asoka, False Ashoka, Palm, Soanchaffa.
	Timeline for completion of plantation :	5 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	Lemon	Citrus sp	18	Butterfly host plant having high Air Pollution Index Tolerance (APIT)
2	Parijatak	Nyctanthes arbor-tristis	20	Small deciduous fast growing tree, beautiful flowers
3	Bahava	Cassia fistula	20	Medium sized deciduous tree Beautiful yellow flowers, Butterfly host plant
4	Apta	Bauhinia racemosa	10	Small tree with small white flowers, Butterfly host plant
5	Sita Asoka	Saraca asoka	10	Shady tree with Red-Yellow Flowers
6	False Ashoka	Polyalthia longifolia	10	Tree having high Air Pollution Index Tolerance (APIT)
7	Palm	Areca sp.	10	Ornamental
8	Soanchaffa	Michellia champaca	10	Ornamental
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, Adulasa, White plumbago , Ber , Stachytarpheta, Takala, Tarwad, Krushna kamal	--	5589.690 SQ.M

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	1200.45 kW
	During Operation phase (Demand load):	960.36 kW
	Transformer:	2 Nos. of 750 kVA
	DG set as Power back-up during operation phase:	1 Nos. of 500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

REDUCTION IN CONSUMPTION BY USING ENERGY SAVING MEASURE

By using LED Light
VFD by using Lift
Solar system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Annual Overall energy saving	21%
2	Annual saving by solar	11%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20 lacs
	O & M cost:	1 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	1	PPE	5.0
2	2	Site Sanitation Facility	4.0
3	3	Drinking water facility	2.0
4	4	Solid Waste Management	2.5
5	5	Safety railing, platform, ladder, hoist, Cranes etc.	6.0
6	6	House keeping	2.0
7	7	Health Check	1.0
8	8	Environmental Monitoring	1.5
9	9	Anti-rusting coating on foundation steel bars	5.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	1	STP	26	3.50
2	2	Rain water Harvesting	9.0	1.0
3	3	Solid waste Management	21.0	2.50
4	4	Gardening and Landscaping	7.0	0.50
5	5	Energy saving	20.0	1.00
6	6	DMP	340.71	31.54

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
Parking details:	**Number and area of basement:**	No basement
	Number and area of podia:	3 PODIUM & PODIUM AREA = 10240.739 sq.mt.
	Total Parking area:	2250 Sq. Mt.
	Area per car:	12.50
	Area per car:	12.50
	Number of 2-Wheelers as approved by competent authority:	31
	Number of 4-Wheelers as approved by competent authority:	Required- 175; Proposed -180
	Public Transport:	Kharghar railway station
	Width of all Internal roads (m):	8 Mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 a
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

PP, Mr. K Srininwasan & Architect Mr. Satish Ahuja were present during the meeting along with environmental consultant M/s Building Environment.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that project comprises Residential and Commercial buildings. Total plot area is of 8694.031 sq.mt. and total construction area (FSI+Non FSI) of the project is 42887.23m^2. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A & presentation submitted are taken on the record.

DECISION OF SEAC

In view of following, the proposal is deferred and shall be considered further after the compliance of above observations submitted for reconsideration.

Specific Conditions by SEAC:

1) PP to ensure that BOD of the treated waste water is less than 5 mg/lit
2) PP to provide 10% RG on ground and indicate it in the lay out plan accordingly.
3) PP to achieve 10% energy savings through renewable component (use of solar PV panels) & submit revised energy calculations indicating the same.
4) It is observed that length of the podium from building line is 10m. As per the Supreme Court order distance between podium and building line should be not more than 3 meters. PP may explore the option of providing ramp to the podium for providing access to the fire tender movement and revert Or provide access to buildings 'C' and 'D' wings by appropriate measures.
5) PP to provide fire hydrants at appropriate place. Provide separate water storage tank at terrace level for fire fighting.
6) PP to restrict parking to 175 which is as per norms and also provide details of per car area and area provided for parking which should be as per NBC norms. No stack parking is allowed.
7) PP to submit approved map with changes as suggested by the committee and upload.
8) PP to upload the approved plans of the project/ plans submitted for approval to the local body, Disaster Management Plan, Environmental Management Plan, traffic study and other above said compliances etc on the website of ec.mpcb.in

FINAL RECOMMENDATION

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

SEAC-II Meeting

SEAC Meeting number: 52 **Meeting Date** April 21, 2017

Subject: Environment Clearance for Application for Expansion in proposed Commercial IT Complex 'Light Hall' at village Saki, Tungwa and Marol, Mumbai

General Information:

1.Name of Project	Proposed Expansion in Commercial IT Complex 'Light Hall' at village Saki, Tungwa and Marol, Mumbai, Maharashtra by Gamma Constructions Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Manish Gupta - Director - Finance - Gamma Constructions Pvt. Ltd.
4.Name of Consultant	Mahabal Enviro Engineers Pvt Ltd ,Plot F-7, Road 21, Y Mandir Road, MIDC Wagle Estate, J.B Sawant Bus Stop, Thane West-400081
5.Type of project	Commercial IT Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Commercial IT Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Expansion in project. we have received the Environment Clearance File No.21-565/2007-IA.III dated 14th March, 2008 from MoEF
8.Location of the project	CTS No. 1 (Part), 2 of Village Saki CTS No. 193 of village Tungwa CTS No. 689 (Part) of village Marol, Mumbai, Maharashtra
9.Taluka	Mumbai
10.Village	Saki, Tungwa, Marol,
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Case/IOD No./CE/4269/BPES/AL Report on Previous Concession got from BMC 4(c)
	IOD/IOA/Concession/Plan Approval Number: Case/IOD No./CE/4269/BPES/AL Report on Previous Concession got from BMC 4(c)
	Approved Built-up Area: 160005
13.Note on the initiated work (If applicable)	We had received Environmental Clearance on dated 14th March 2008. As per EC reference we had completed construction of three buildings
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received from BMC Last Approved plan Dated 18th March, 2017
15.Total Plot Area (sq. m.)	56,212 sq.mt.
16.Deductions	6,634 sq.mt.
17.Net Plot area	49,578 sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 91,590 sq.mt.
	b) Non FSI area (sq. m.): 68,415 sq.mt.
	c) Total BUA area (sq. m.): 160005 sq.mt.
19.Total ground coverage (m2)	27,155 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	54%
21.Estimated cost of the project	3460000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1 Wing A (Existing)	2 Basement+Ground+7 Floors	32.75
2	Building No.1 Wing B (Existing)	2 Basement+Ground+7 Floors	32.75
3	Building No.1 Wing C (Existing)	2 Basement+Ground+7 Floors	32.75
4	Building No.1 Wing D (Proposed)	2 Basement+Ground+6 Floors	32.90
5	Building No.1 Wing E (Proposed)	2 Basement+Ground+13 Floors	64
6	Building No. 1 Miscellaneous Structure (Existing)	Ground	-
7	Building 3 (Existing)	Ground+1 Floor	7.00
8	Building 4 (Existing)	Ground+1 Floor	7.00

23.Number of tenants and shops	115 Nos. tenants
24.Number of expected residents / users	13,985 Nos.

25.Tenant density per hectare	450/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)	Proposed 27.43 m wide D.P. Road - Saki Vihar Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6 m
29.Existing structure (s) if any	Yes, As per Environment Clearance
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**	Municipal Corporation Greater Mumbai (MCGM)
	Fresh water (CMD):	275
	Recycled water - Flushing (CMD):	336
	Recycled water - Gardening (CMD):	50
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	610
	Fire fighting - Underground water tank(CMD):	900
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	87

Wet season:	**Source of water**	Municipal Corporation Greater Mumbai (MCGM)
	Fresh water (CMD):	275
	Recycled water - Flushing (CMD):	336
	Recycled water - Gardening (CMD):	25
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	610
	Fire fighting - Underground water tank(CMD):	900
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	112
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:**	near about 3 m as per contour level
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	8 No.
	Size of recharge pits :	8 Nos. Size 3 m * 5 m depth
	Budgetary allocation (Capital cost) :	Rs.20 Lakh
	Budgetary allocation (O & M cost) :	Rs.1.7 Lakh/year
	Details of UGT tanks if any :	Wing A -Domestic Tank-72 m3/day , Flushing tank capacity-66 m3/day, Fire tank capacity-150 m3/day Wing B -Domestic Tank-88 m3/day , Flushing tank capacity-96 m3/day, Fire tank capacity-150 m3/day Wing C -Domestic Tank-37.60 m3/day , Flushing tank capacity-47 m3/day, Fire tank capacity-200 m3/day Wing D -Domestic Tank-6 m3/day , Flushing tank capacity-7.5 m3/day, Fire tank capacity-200m3/day Wing E -Domestic Tank-46.5 m3/day , Flushing tank capacity-58 m3/day, Fire tank capacity-200m3/day

35.Storm water drainage	**Natural water drainage pattern:**	along the road side
	Quantity of storm water:	1.5146 m3/sec
	Size of SWD:	850 mm * 750 mm

Sewage and Waste water	**Sewage generation in KLD:**	488
	STP technology:	Fluidized Aerobic Bioreactor (FAB)
	Capacity of STP (CMD):	1 no.*155 m3/day, 1 no.*145 m3/day and 1 no.*190 m3/day
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	Rs.160 Lakh
	Budgetary allocation (O & M cost):	Rs.13 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	60,000 m3
	Disposal of the construction waste debris:	Debris generated will be sent to the authorized debirs disposal site as per construction and demolition and De-silting Waste (Management and Disposal) Rules 2006
Waste generation in the operation Phase:	**Dry waste:**	1,689 kg/day
	Wet waste:	2,533 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	5 kg/day
	Others if any:	Dry Waste including E-Waste is 1,689 kg/day
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated and disposed of to recyclers
	Wet waste:	Used as organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	used as manure for plantation and gardening purposes inside the premise
	Others if any:	E Waste will be handed over to the authorized vendor
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	260 sq.mt.
	Area for machinery:	50 sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.25 Lakh
	O & M cost:	Rs.2.1 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	RG/ Amenity/ Open space area 4,998 sq.mt.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	220
	List of proposed native trees :	provided and total no. of tress are 368 No.
	Timeline for completion of plantation :	tentative 2 to 3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Artocarpus hetetrophllus	Jack Fruit	-	Fruit bearing tree
2	Anthocepahus cadamba	kadamba	-	shady
3	Azardirachta indica	Neem	-	Medicinal tree
4	Borassus flabellifer	Tad	-	Fruit bearing tree
5	Cocos nucifera	Coconut	-	Fruit bearing
6	Cordia obliqua	Bhokar	-	Fruits are Edible and shady
7	Dolonix regia	Gulmohar	-	Flower bearing tree
8	Ficus benghalensis	vad	-	shady tree
9	Ficus glomerata	Umber	-	Fruit bearing
10	Ficus religiosa	Pimpal	-	Shady tree
11	Grewia tillaefolia	Dhaman	-	Medicinal plant
12	Langerstoemia speciosa	Thaman	-	Flower bearing
13	lower bearing	Subabul	-	Flower bearing tree
14	Flower bearing tree	Tawa	-	Flower bearing tree
15	Magnifera indica	Mango	-	Fruit bearing tree
16	Morinda citrifolia	Morindra	-	Medicinal Plant
17	Peltophorum pterocarpum	Peltophorum	-	Flower bearing tree
18	Phoenix sylvestris	Phoenix	-	Flowering tree
19	Plumeria obtusa	Champa	-	Flowering tre
20	Pllyalthia lingifolia	Ashoka	-	Aesthetic tree
21	Spathodea campanulata	Spathodea	-	Flower bearing tree

22	Sterculia alata	Bhudas coconut	-	Fruit bearing tree
23	Syzgium cumini	Jamun	-	Fruit bearing tree
24	Tamrindus indica	Chinch	-	Fruit bearing tree
25	Terminalia catappa	Badam	-	Fruit & Shady tree
26	Trewia nudiflora	Gutel	-	Flower bearing
27	Zizyphus rotundifolia	Bor	-	Fruit bearing 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	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	TATA
	During Construction Phase: (Demand Load)	52 MW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	65 MW
	During Operation phase (Demand load):	52 MW
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	89 MVA
	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:

Use of compact fluorescent lamps (CFL) and low voltage lighting in common areas.
Energy saving measures: Designing of Electronic Lighting System (ELS) instead of General Lighting
Use of Energy efficient fluorescent LED Tube Lights & CFL lamps for 30% more light output
Use of electronic chokes to all fluorescent light fixtures to provide less wattage-loss
Use of Programmable Timers for switching On/Off of pumping systems, common lightings, Parking Area lightings & Street lightings.
Solar opera

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED/CFL/GLS	>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.90 Lakh
	O & M cost:	Rs.7.5 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 for Dust Suppression	pH, Colour, odour, Turbidity, Total Hardness, Metals	5.0
2	Air & Noise monitoring	SPM, SO2, NO2	1.5
3	Soil erosion control	Water spray on ground	3.0
4	Water monitoring	pH, Colour, Odour, turbidity, Total hardness, metals	4.0
5	Site Sanitation	Disinfection	1.5
6	Gardening Set up	Soil and Water	5.0
7	Disinfection-Pest Control	Disinfection	2.0
8	First Aid Facilities	First Aid Box	3.0
9	Health Check Up	Weekly	2.0
10	Training and awareness	Daily	4.1
11	Personal Protective Equipments	Safety jacket, Safety shoes, Helmet, Gloves	3.5
12	Personal Protective Equipments	Safety jacket, Safety shoes, Helmet, Gloves	3.5
13	labour hutments	CFL	3.1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP plant having capacity	160	13
2	Water Treatment Plant	Construction and maintenance	40	3.3
3	Landscape Development	RG area	90	7.5
4	Solid Waste Composting	Composting	25	2.1
5	Rain water harvesting	Channelizing and maintenance of drainage line	20	1.7
6	Fire Fighting	Fire extinguisher and sand bucket	21	1.8
7	Energy Conservation	Solar panels and LED	17	1.4
8	Environmental Monitoring	Air, Water, Soil and Noise monitoring	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

	Nos. of the junction to the main road & design of confluence:	27.43 m wide D.P. road Saki Vihar Road and 2 Nos. of the junction

Parking details:	**Number and area of basement:**	2 nos. of basement with total area 40,217.44 sq.mt.
	Number and area of podia:	Not Applicable
	Total Parking area:	41,839 sq.mt.
	Area per car:	33.93 sq.mt.
	Area per car:	33.93 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	1,233 Nos.
	Public Transport:	Company Buses will provided - 6 no.
	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	Not Applicable
	Category as per schedule of EIA Notification sheet	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	We are applying for Environment Clearance in Proposed Expansion in Light Hall Commercial IT Complex Project .We have received the Environment Clearance file No. 21-565/2007-IA. III dated 14th March, 2008 .We have have submitted the application for the ToR dated 5.11.2016. we have received the Acknowledgment receipt having File SIA/MH/NCP/17691/2016 As per the received Environmental Clearance we completed the construction of 3 buildings.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-11-2016

Brief information of the project by SEAC

PP, Mr. Ramji & Architect Mr. Pushkar were present during the meeting along with environmental consultant M/s Mahabal Enviro Engineers. PP informed that EC was received on 14/3/2008. Proposal is for expansion of the project with Addition of two towers. The proposal was discussed on the basis of the draft ToR for expansion of the residential project presented by the PP.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit Monitoring report for existing STP
2) PP to submit STP details, i.e technology, discharge standards etc.
3) PP to submit certification of EC compliance report.
4) PP to submit Civil Aviation permission for the proposed height.
5) PP to submit Shadow analysis, Light and Ventilation analysis, measures to reduce heat island effect due to expansion & upload on website.
6) PP to provide air cleaning system with capacity details.
7) PP to assess air quality of existing basement and submit evacuation analysis for different wings.
8) Glass facade should not be more than 10% and it should be within the building and submit details accordingly.
9) PP to submit Drainage calculations for the entire project & 500 m area around the project. Superimpose drainage pattern on contour map.
10) Submit all the NoCs and revised layout plan incorporating above measures.
11) 11. PP to also refer Standard ToR published by MoEF vide order dated 10/04/15 in addition to above.

FINAL RECOMMENDATION

Kindly find SEAC decision above.