89th SEAC-3 Day 01

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Environment Clearance for proposed commercial development

Is a Violation Case: No

1.Name of Project	Proposed Commercial Development
2.Type of institution	Private
3.Name of Project Proponent	M/s Baner Hills LLP
4.Name of Consultant	Enviro Resources NABET Certificate No: NABET/EIA/1821/IA0038
5.Type of project	Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey no 25/1,25/2,25/3/1,25/3/2
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Mr.Anand Sanghvi
Room Number:	--
Floor:	4th floor
Building Name:	Tech Park One
Road/Street Name:	---
Locality:	---
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	1st IOD Obtained from Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Obtained
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Not Any
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	9872.50
16.Deductions	1465.95
17.Net Plot area	8406.55
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23118.01
	b) Non FSI area (sq. m.): 16945.77
	c) Total BUA area (sq. m.): 40063.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Nil
	Approved Non FSI area (sq. m.): Nil
	Date of Approval: 07-05-1900
19.Total ground coverage (m2)	1765.27
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20%
21.Estimated cost of the project	1893100253

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	B3+B2+B1+GR + 1st to 12th Floor	49.95

23.Number of tenants and shops	No. of Tenants: 0 No. of offices: 11 No. of Showrooms: 7
24.Number of expected residents / users	No. of residents: 0 No.of users:2458 Visitors:810
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Not Any
30.Details of the demolition with disposal (If applicable)	Not Any

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000278

Dry season:	**Source of water**	PMC/Tanker
	Fresh water (CMD):	67
	Recycled water - Flushing (CMD):	57
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	144
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	20 CMD
	Excess treated water	41
Wet season:	**Source of water**	PMC/Tanker
	Fresh water (CMD):	67
	Recycled water - Flushing (CMD):	57
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	124
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	20 CMD
	Excess treated water	61
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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	As per the Hydrogeology survey Report
	Size and no of RWH tank(s) and Quantity:	No RWH tanks are proposed
	Location of the RWH tank(s):	Not Applicale
	Quantity of recharge pits:	2
	Size of recharge pits :	2.5 m x 2.5 m x 2.0 m
	Budgetary allocation (Capital cost) :	Rs.0.8Lakhs/Annum
	Budgetary allocation (O & M cost) :	Rs.0.2Lakhs/Annum
	Details of UGT tanks if any :	Firefighting-Underground water tank (CMD): 300
35.Storm water drainage	**Natural water drainage pattern:**	As per prevailing contour
	Quantity of storm water:	10.10 Cum/Min
	Size of SWD:	450mm dia. Pipe
Sewage and Waste water	**Sewage generation in KLD:**	118
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of capacity 118 KLD
	Location & area of the STP:	As per the service layout
	Budgetary allocation (Capital cost):	Rs.55 Lakhs/Annum
	Budgetary allocation (O & M cost):	Rs.7.5 Lakhs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 Kg
	Disposal of the construction waste debris:	This material will be used for back filling and leveling of the plot and remaining will be disposed to authorized sites.
Waste generation in the operation Phase:	**Dry waste:**	343 Kg/day
	Wet waste:	147 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	18 Kg/day
	Others if any:	--

SEAC-AGENDA-000000278

Mode of Disposal of waste:	**Dry waste:**	Dry waste generated will be handed over to SWACH
	Wet waste:	Wet waste will be treated in OWC & manure will be used for landscaping.
	Hazardous waste:	Will be handed over to authorised vendors
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure for landscaping.
	Others if any:	E-Waster generated will be handed over to the authorised vendor
Area requirement:	**Location(s):**	As per Services Layout
	Area for the storage of waste & other material:	70 sqm
	Area for machinery:	15 x15 x15
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.6.5 Lakhs
	O & M cost:	Rs.0.32 Lakhs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	Litre/annum	Not applicable	150	150	Will be handed to MPCB authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not applicable	153/ hr HSD	3	15	30mm	427 degree

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	2000 litres/Month	2000 litres/Month

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

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	840.6 sqm
	No of trees to be cut :	Not Any
	Number of trees to be planted :	120
	List of proposed native trees :	As per the List below
	Timeline for completion of plantation :	Till the time of Completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	10	Flowering Plant
2	Roystonea regia	Royal Palm	10	Beautification
3	Ailathus excelsa	Maharukh	10	Beautification
4	Simarouba glauca	Laxmi Taru	10	Medicinal Value
5	Polyalthia longifolia	Ashoka	10	Medicinal Value
6	Fish Tail Palm	Caryota Mitis	10	Beautification
7	Azadirachta indica	Neem	10	Medicinal Value
8	Millettia Pinnata	Karanj	10	Medicinal Value
9	Morus alba	Mulberry	10	Fruit Bearing
10	Dillenia indica	Karamal	10	Beautification
11	Mimusops elengi	Bakul	10	Flowering Plant
12	Wodyetia bifurcate	Foxtail palm	10	Beautification
13	Total	--	120	--
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000278

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):	3070 KW
	During Operation phase (Demand load):	1842 KW
	Transformer:	2 x1250 KVA
	DG set as Power back-up during operation phase:	3 x 900 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Conventional T8 FTL with Magnetic Ballasts (2x36W). VS. Energy Efficient T5 FTL with HF Electronic Ballasts (2x28W)	20%
2	Conventional Transformer against Low loss Transformer	20%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	118 CMD
OWC	Not applicable	TNC-200S-200 Kg/ day
DG Set	Not applicable	3 x 900 KVA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.310 Lakhs
	O & M cost:	Rs.70 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000278

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	--	12.74
2	Water	RWH	0.8	0.2
3	Water	STP	55.0	7.5
4	Energy	Solar PV cells	310.0	70.0
5	Land Environment	Gardening	20.0	2.0
6	Solid waste	Solid waste management	6.5	0.32
7	Solid waste	E-waste management	0.11	0.1
8	Basement Ventilation	Basement Ventilation	45.0	3.6
9	Pumping	Pumping	6.2	0.48

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

SEAC-AGENDA-0000000278

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	One
Parking details:	**Number and area of basement:**	No. of Basements:3 Area of the Basements: Basement03=5252.33 m2 Basement 02=5091.95 m2 Basement 01=5091.95 m2
	Number and area of podia:	Not Any
	Total Parking area:	7595.00 m2
	Area per car:	12.50 m2
	Area per car:	12.50 m2
	Number of 2-Wheelers as approved by competent authority:	1039 nos.
	Number of 4-Wheelers as approved by competent authority:	422
	Public Transport:	Bus
	Width of all Internal roads (m):	12m
	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) Building and Construction projects
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not Any

SEACAGENDA-00000000278

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

SEAC-AGENDA-0000000278

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 9872.50 m2, FSI area of 23118.01 m2, Non FSI area of 16945.77 m2 and total BUA of 40063.87 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP has proposed drinking water supply and sanitation of the people (costing 60 lakh) in Survey no. 109/2 etc. of Baner. This is job of Municipal Corporation. Therefore, PP to replace the same with other activity useful to public like providing ambulance, electric crematorium etc.

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

Specific Conditions by SEAC:

1) In CER, PP has proposed drinking water supply and sanitation of the people (costing 60 lakh) in Survey no. 109/2 etc. of Baner. This is job of Municipal Corporation. Therefore, PP to replace the same with other activity useful to public like providing ambulance, electric crematorium etc.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Proposed Residential and Commercial project "Nyati Evoque" at Plot B at S.no. 9/1,5/3/1 (P), 8/2/10, 8/2/11, Vadgaon Sheri, Dist Pune, Maharashtra by Nyati Builders Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Nyati Evoque
2.Type of institution	Private
3.Name of Project Proponent	Mr. Piyush Nyati
4.Name of Consultant	Vke: environmental LLP, Pune.
5.Type of project	Residential and Commercial
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 B at S.no. 9/1,5/3/1 (P), 8/2/10, 8/2/11, Vadgaon Sheri, Dist Pune, Maharashtra
9.Taluka	Haveli
10.Village	Vadgaon Sheri
Correspondence Name:	Mr. Piyush Nyati
Room Number:	S.No. 103, Plot No. 129
Floor:	5th Floor
Building Name:	Nyati Unitree
Road/Street Name:	Nagar Road
Locality:	Yerwada
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Under process
	IOD/IOA/Concession/Plan Approval Number: Under process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	7361.8
16.Deductions	Nil
17.Net Plot area	7361.8
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20,179.74
	b) Non FSI area (sq. m.): 16,576.38
	c) Total BUA area (sq. m.): 36756
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 29-12-2018
19.Total ground coverage (m2)	2588.65
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35.16
21.Estimated cost of the project	1010800000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A1	2B+GR+21	68.70
2	Wing A2	2B+GR+21	68.70

23.Number of tenants and shops	Residential: Residential tenements: 166, Shops: 22
24.Number of expected residents / users	Residential Tenents:996 Commercial users: 246 Total : 1242
25.Tenant density per hectare	225 tenets/ 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)	24 m Nearest fire station: Paramount Fire station, 4.2 Km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Temporary site office exists on site
30.Details of the demolition with disposal (If applicable)	Temporary site office exists on site which will be demolished later

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	93
	Recycled water - Flushing (CMD):	52
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	3.4
	Total Water Requirement (CMD) :	156
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	10
	Excess treated water	58
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	93
	Recycled water - Flushing (CMD):	52
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	3.4
	Total Water Requirement (CMD) :	148
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	10
	Excess treated water	66
Details of Swimming pool (If any)	Swimming pool size : Swimming pool volume = 230 cum Water requirement for make up : 3.4 kld Approx. Capital Cost – 31,80,000/- O&M Cost- 10,45,000/-	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7 m BGL in pre monsoon
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 nos.
	Size of recharge pits :	Dimensions - 1.5 m x 1.5 m x 2.5 m depth, Bore well - Dia. – 160 mm Depth – 60 Mt
	Budgetary allocation (Capital cost) :	Rs. 5,70,000/-
	Budgetary allocation (O & M cost) :	Rs. 17,100 /-
	Details of UGT tanks if any :	Fire Fighting Tank- 200,000 lit Raw Water tank-41,100 lit Domestic Tank-82,200 lit Drinking Water tank- 16,800 lit
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be led to recharge pits. Surplus shall be discharged into proposed storm water drainage.
	Quantity of storm water:	42.58
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	131
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 140 kld
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	Rs. 20,50,000/-
	Budgetary allocation (O & M cost):	Rs. 5,73,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 8 kg/day Wet waste (Kg/day): 12 kg/day =Total waste generated: 20 kg/day
	Disposal of the construction waste debris:	Construction Waste generated during construction phase will be segregated, reused on site and surplus shall be given to scrap dealers for recycling
Waste generation in the operation Phase:	**Dry waste:**	236.1 kg/day
	Wet waste:	323.40 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	20 kg/day
	Others if any:	e- waste - 2 kg/day

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor
	Wet waste:	OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as Manure
	Others if any:	e-waste Will be handed over to authorized vendor
Area requirement:	**Location(s):**	on ground
	Area for the storage of waste & other material:	55 sqm
	Area for machinery:	55 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 13,08,160/-
	O & M cost:	Rs. 2,90,880/-

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	2346.50 Sq.m
	No of trees to be cut :	6 trees exists on site out of which 2 will be cut
	Number of trees to be planted :	94
	List of proposed native trees :	Refer below
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	10	Hardy & fast growing tree ,air purifier.
2	Anthocephallus kadamba	Kadamb	10	Tall deciduous tree ,good for roadside plantation.
3	Albizia lebeck	Shirish	10	The tree is grown in parks,gardens for its sweet ,scented beautiful
4	Cassia Fistula	Bahava	10	Grows in less soil,full yellow flowers during summer season,larval host for butterflies
5	Bauhinia purpurea	Kanchan	10	Grows in less soil,drought resistant
6	Murraya exotica	Kunti	9	Small ,Evergreen tree,good for garden plantation
7	Pongamia pinnata	Karanj	9	It is larval host for burterflies. Nitorgen fixing plants
8	Acrus sapota variety	Chickoo	6	Hardy tree,grows in dry land
9	Phyllanthus emblica	Amla	5	Medicinal properties
10	Michelia champaca	Sonchapha	9	Evergreen tree ,rapidly growing ,good for roadside plantation
11	Psidium gujava	Peru	6	Fruit bearing trees, attracts birds
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	Thevetia Nerifolia	0.9 m	235.03 sq.m.
2	Stachytarpheta sp	0.45 m	141.02 sq.m.
3	Plumbago zeylanica	0.45 m	141.02 sq.m.
4	Nerium Oleander	0.60 m	188.03 sq.m.
5	Korphad	0.75 m	47.00 sq.m.
6	Ocimum sanctum	0.45 m	47.00 sq.m.
7	Cyimbopogon floxosus	0.30 m	47.00 sq.m.
8	Hibiscus	0.60 m	94.01 sq.m.

47.Energy

SEAC AGENDA-0000000278

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 kvA
	During Operation phase (Connected load):	1472 KW
	During Operation phase (Demand load):	1308.8 kVA
	Transformer:	22KV / 630 KVA – 1 No & 22KV / 200 KVA – 1 No.
	DG set as Power back-up during operation phase:	2 nos. of 200 kVA
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total Energy Saving : i.e. (% Savings) /year: 19.15 %
Energy saving due to solar :i.e. (% Savings) :14.99%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	34.49
2	Bollard Lighter - Light Fitting For Landscape Area.	0.39
3	Recesses Wall Light. - Light Fitting For Landscape Area.	0.76
4	Planter Of Lighter - Light Fitting For Landscape Area	0.79
5	Solar Street Light Fitting - Pole Light On Road Side	3.0
6	Energy Saving by Solar Hot Water System.	933.75

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. 37,70,000/-
	O & M cost:	Rs. 1,13,800/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000278

1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	5,96,643.75/-
2	Land	Labour Camp toilets & sanitation	4,80,000/-
3	Health and Safety	Labour Safety Equipments and training	4,00,000/-
4	Disinfection and Health Check-ups	Disinfection and Health Check-ups	51,000/-
5	Environment Management	Environmental Monitoring cell	1,70,000/-
6	Environmental Monitoring	Environmental Monitoring	1,85,600/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	wage Treatment Plant	wage Treatment Plant	20.50	5.73
2	Solid Waste Management	OWC	11.74	2.45
3	Landscaping	Development & maintenance of green area	8.70	1.68
4	Rain Water Harvesting	Recharge pits	5.70	0.17
5	Renewable Energy	Solar Hot water	24.9	0.49
6	Solar Street Light	Solar Street Light	12.80	0.64
7	Environmental Monitoring	Environmental Monitoring	00	1.85

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:	The site is located in a residential zone in Vadgaon sheri. The development will be accessible from 24 m wide road while the internal access ways are 7.5 m wide.

SEAC-AGENDA-0000000278

Parking details:	**Number and area of basement:**	2
	Number and area of podia:	1
	Total Parking area:	8134.7 sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	422
	Number of 4-Wheelers as approved by competent authority:	386
	Public Transport:	NA
	Width of all Internal roads (m):	7.5 wide internal road is provided and 9.0 m. Turning radius will be provided.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a building and construction project
	Court cases pending if any	-
	Other Relevant Informations	The project area is in a residential zone. Proposed project consists of residential building having 166 flats , and 22 shops
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000278

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 7361.8m2, FSI area of 20179.74m2, Non FSI area of 16576.38 m2 and total BUA of 36756 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

89th SEAC-3 Day 01

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Application for Amendment in Environment Clearance - "ACROPOLIS"

Is a Violation Case: No

1.Name of Project	Application for Amendment in Environment Clearance - "ACROPOLIS"
2.Type of institution	Private
3.Name of Project Proponent	Nilesh Agarwal
4.Name of Consultant	M/s Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Residential development with convenience shops
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes . We have received Environmental Clearance vide letter number SEAC-III-2014/CR-305/TC-3 dated 05.11.2015
8.Location of the project	Sr. No 41/1, 41/2/1, 41/2/14 Sus, State -Maharashtra
9.Taluka	Mulshi
10.Village	Sus
Correspondence Name:	Nilesh Agarwal
Room Number:	3AA
Floor:	3rd Floor
Building Name:	EDENA Building
Road/Street Name:	97 Maharashi Karve Road
Locality:	Marine Lines
City:	Mumbai - 400020
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Part sanction received CC- 1806/16-17 dated 29/04/2017 for FSI 27,623.78 m2 . Now obtained full potential for TBA 54,885.77 m2.
	IOD/IOA/Concession/Plan Approval Number: CC- 867/18-19 dated 24.10.2018
	Approved Built-up Area: 54885.77
13.Note on the initiated work (If applicable)	Yes, construction has been done as per EC issued vide letter number SEAC-III-2014/CR-305/TC-3 dated 05.11.2015 for total construction area (FSI +Non FSI) of 60,797.51 m2 out of which Building A to E has been constructed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	26354.00 m2
16.Deductions	8221.35 m2
17.Net Plot area	18132.65 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30713.93
	b) Non FSI area (sq. m.): 24171.84
	c) Total BUA area (sq. m.): 54885.77
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 30713.95
	Approved Non FSI area (sq. m.): 24171.84
	Date of Approval: 24-10-2018
19.Total ground coverage (m2)	3898.74
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.50%
21.Estimated cost of the project	948000000

22.Number of buildings & its configuration

SEAC-AGENDA-000000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	P+7 Floors	23.20
2	B	P+7 Floors	23.20
3	C	3P+18 Floors	60.90
4	D	3P+18 Floors	57.90
5	E	3P+18 Floors	55.05
6	F	P+Shops+11 Floors	36.85

23.Number of tenants and shops	335 Flats and 09 shops
24.Number of expected residents / users	Residential : 1675 and commercial : 32
25.Tenant density per hectare	250 Tenant / hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest fire station is situated at 18 m wide external 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	Buildings - A, B, C, D and E
30.Details of the demolition with disposal (If applicable)	No

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	Local approval body
	Fresh water (CMD):	156.39
	Recycled water - Flushing (CMD):	76.18
	Recycled water - Gardening (CMD):	22
	Swimming pool make up (Cum):	03
	Total Water Requirement (CMD) :	257.57
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	111.13
Wet season:	**Source of water**	Local approval body
	Fresh water (CMD):	156.39
	Recycled water - Flushing (CMD):	76.18
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	03
	Total Water Requirement (CMD) :	235.57
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	133.13
Details of Swimming pool (If any)	Main Pool Size: 15m x 9.5m x 1.2 m. Plunge Pool Size: 2.65 m x 9.5m x 0.15m. Kid's Pool Size: 3.5m x 9.5m x 0.6m. Total water Requirement: 198000 Lit. Water requirement for make up: 1.2 m3 /day Details of Plant & Machinery used for treatment of Swimming pool water: The filtration system comprises of skimmers, floor drains, hair and lint strainers, pump, multi-port valve, high rate sand filter and floor inlets Disinfection: 1.Chlorine Daily basis 2.Alum Once a fortnight 3. Soda Ash/Acid Once in a while to correct the PH if required. Details of quality to be achieved for swimming pool water and parameters to be monitored: pH - 7.1 to 7.5	

33.Details of Total water consumed

Particulars	Consumption (CMD)	Loss (CMD)	Effluent (CMD)

SEAC-AGENDA-0000000278

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:**	10 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	7 nos.
	Size of recharge pits :	1.35 m diameter x 2.5 m depth with bore.
	Budgetary allocation (Capital cost) :	Rs. 14 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.28 Lakhss/annum
	Details of UGT tanks if any :	Domestic UG tank Capacity: 240 CMD Flushing UG tank Capacity: 148 CMD Fire UG tank Capacity: 300 CMD
35.Storm water drainage	**Natural water drainage pattern:**	Slope towards west direction
	Quantity of storm water:	Before construction - 893.54 m3/hr and after construction - 222.00 m3/hr
	Size of SWD:	600 mm dia pipe
Sewage and Waste water	**Sewage generation in KLD:**	210.97
	STP technology:	MMBR
	Capacity of STP (CMD):	1 No x 220 KLD
	Location & area of the STP:	Location:As per services layout and area provided 116.64 Sq. m
	Budgetary allocation (Capital cost):	48.00 Lacs
	Budgetary allocation (O & M cost):	13.00 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Quantity of the top soil to be preserved: 1478.30 Cum
	Disposal of the construction waste debris:	246.61 Cum to be re used for filling
Waste generation in the operation Phase:	**Dry waste:**	340 Kg/day
	Wet waste:	506 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	33 Kg/day
	Others if any:	E waste - 2.4 kg/day

SEAC-AGENDA-000000278

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers (SWACH)
	Wet waste:	Will be treated in an Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	E waste - Handed over to authorized recyclers (SWaCH)
Area requirement:	**Location(s):**	As per services layout
	Area for the storage of waste & other material:	13.5 m2
	Area for machinery:	45 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	16.75 Lakhs
	O & M cost:	4.06 Lakhs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	HSD	HSD
41.Source of Fuel		Authorized vendor		
42.Mode of Transportation of fuel to site		By road		

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	2417.69 m2. Additional green area: 2083.03 m2
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	460
	List of proposed native trees :	460
	Timeline for completion of plantation :	2020

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	Ailanthus excelsa	Maharukh	25	Shady tree for road side plantation. Has medicinal use
2	Swetenia mahogany	Mahogany	20	It has a medicinal uses. It has ornamental uses
3	Pongamia pinnate	Karanj	30	Shady tree for road side plantation. Medicinal uses
4	Peltopherum	Copper pod	30	It has a medicinal uses
5	Tabebuia argentia	Trumpet tree	15	It has a medicinal uses It has ornamental uses
6	Spathodea campanulata	African tulip tree	30	Shady tree for road side plantation. Attract bees, birds and butterflies
7	Saraca indica	Sita Ashok	21	Shady tree for road side plantation. Has medicinal uses
8	Mangifera indica	Mango	15	Mainly grown as a fruit crop
9	Tabebuia rosea	Pink Trumpet tree	15	It has a timber uses and it’s a flowering tree
10	Lagestromia speciosa	Lagestromia	22	It has a timber uses and it’s a flowering tree
11	Cassia fistula	Bahava	30	Showy tree for road side plantation. Medicinal uses. Attract bees, birds and butterflies
12	Micheliachampaka	Champa	35	Shady tree for road side plantation. Used for worship
13	Erythrina indica	Indian coral tree	35	It has a medicinal uses It has ornamental uses
14	Psidiumguajava	guava	07	Medicinal value with fruit bearing plants
15	Nyctanthes arbor-tristis	Parijatak	40	Showy plants with pink cluster blooms to attract birds and bees
16	Murraya koenigii	Kadipatta	27	Small growing trees used as buffer trees
17	Plumeria alba	Temple tree	22	It has a medicinal uses. It has ornamental uses
18	Bauhinia purpurea	Kanchan	33	Shady tree for road side plantation. Medicinal use
19	Syzygium jambos	Jamun	8	Medicinal value with fruit bearing plants

SEAC-AGENDA-0000000278

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	Alpinia purpurataNot Applicable	0.30 m	13.5
2	Alpinia speciosa	0.30 m	55.0
3	Beloperone guttata	0.40 m	22.0
4	Breynia Nivosa dwarf	0.25 m	16.5
5	Canna red dwarf	0.30 m	13.5
6	Caesalpinia pulcherrima	0.45 m	60.0
7	Duranta Golden dew	0.25 m	75.0
8	Galphimia glauca	0.35 m	30.0
9	Heliconia Illustris green	0.35 m	25.0
10	Heliconia Lady diana	0.35 m	65.0
11	Heliconia Orange dwarf	0.30 m	90.0
12	Hymenocallis speciosa	0.30 m	45.0
13	Ixora pink delight	0.40 m	105.0
14	Jasminum sambac	0.35 m	15.0
15	Loropetalum chinensis	0.35 m	60.0
16	Murraya paniculata	0.35 m	25.0
17	Mussaenda Glabra dwarf	0.35 m	150.0
18	Pentas lanceolata	0.30 m	65.0
19	Psederanthenum reticulatum	0.30 m	17.5
20	Plumbago capensis	0.30 m	90.0
21	Spathoglottis plicatta	0.30 m	40.0
22	Schfflera arboricola var	0.40 m	25.0
23	Stachytarpheta indica	0.35 m	75.0
24	Spathiphyllum cannaefolium	0.30 m	25.0
25	Tabernaemontana coronaria	0.35 m	50.0
26	Nepherolepis exaltata	0.25 m	30.0
27	Ophiopogon jaburan variegated	0.20 m	60.0
28	Pandanus Pygmeus dwarf	0.20 m	15.0
29	Scindapsus aureus	0.15 m	40.0
30	Areca lutescens	0.60 m	110.0
31	Cycas revoluta	0.75 m	60.0
32	Rhapis excelsa	0.50 m	30.0
33	Quisqualis indica	0.30 m	25.0
34	Clerodendron inerme	0.30 m	62.5
35	Crossandra induliformis	0.30 m	23.5

47.Energy

SEAC-AGENDA-0000000278

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	33 KW
	DG set as Power back-up during construction phase	1 No. x 50 KVA
	During Operation phase (Connected load):	1937.41 KW
	During Operation phase (Demand load):	978.15 KW
	Transformer:	2 nos. x 630 KVA
	DG set as Power back-up during operation phase:	2 x 500 KVA ,1 x 300 KVA and 1 x 160 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

- Use of LED in Parking area, lift-lobby and stair-case.
- Using Solar PV system in Common Area Lighting (10%). & Street/ Landscape lights with LED lamps
- V3F drive is proposed for all lifts.
- As per MSEDCL requirements, it is recommended to use low loss Transformer.
- Losses for Transformer shall, in principal, comply with ECBC norms.
- Recommend to attain power factor of the installation near unity.
- Independent Energy meters for all pollution control equipment's.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy – Bldg common area lighting/ street light	15 % (52 Nos.)
2	Auto timer Logic Controller	55 % (14 Nos.)
3	Solar Water heater	89 % (335 Nos.)

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	55.06 Lakhs
	O & M cost:	50.05 Lakhs per annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression	0.32

SEAC-AGENDA-0000000278

2	Air Environment	Air & Noise monitoring	0.48
3	Water Environment	Tanker water for construction & worker	1.08
4	Water Environment	Water monitoring	0.6
5	Land Environment	Labour toilets 10 Nos. Cleaning 10,000 Rs./month	8.1
6	Biological Environment	Gardening & Excavation	2.5
7	Socio- Economic Environment	Disinfection at site	1.8
8	Socio- Economic Environment	Safety, First Aid, Health Hygiene Facilities	0.23
9	Socio- Economic Environment	Health Check Up	0.2
10	Socio- Economic Environment	Crèches for children	4.2
11	Socio- Economic Environment	Personal Protective Equipment CFL lamps for labor hutments	1.22

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 Cost	1 No. x 220 KLD	48.00	13.00
2	Rain Water Harvesting	7 Nos. recharge pit	6.00	2.00
3	Environmental Monitoring	By authorized agency	-	6.60
4	Gardening	Native tree plantation	13.68	1.70
5	Energy saving	Solar water heating and Solar PV	55.06	5.05
6	Swimming pool	Total- 3 Nos. ; Main Pool: 1 No. , Plunge Pool: 1 No. and Kid's Pool: 1 No	55.3	5.53
7	Solid waste	1 No. of OWC	16.75	4.06

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

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

52.Any Other Information

No Information Available

SEAC-AGENDA-0000000278

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 24 m wide road
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	No. of Podia: 03 Area of Podium: 8583 m2
	Total Parking area:	9923 m2
	Area per car:	30.0 m2
	Area per car:	30.0 m2
	Number of 2-Wheelers as approved by competent authority:	561
	Number of 4-Wheelers as approved by competent authority:	218
	Public Transport:	Nearest Bus Stop: Sus
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	No
	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	This project has been received Environmental Clearance EC File : SEAC-III-2014/CR-305/TC-3 dated 5th November, 2015. Now we are submitting application for the EC amendment.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC-AGENDA-0000000278

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.

Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for amendment of earlier Environmental clearance for total plot area of 26354 m2, FSI area of 30713.93 m2, Non FSI area of 24171.84m2 and total BUA of 54885.77 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000278

During discussion following points emerged:

1. PP to obtain following NOC's: (a) Water supply, (b) Drainage.

2. PP to obtain approval for 2 nos. basement parings from competent authority.

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

Specific Conditions by SEAC:

1) PP to obtain following NOC's: (a) Water supply, (b) Drainage.
2) PP to obtain approval for 2 nos. basement parings from competent authority.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Environmental Clearance for Teerth Technospace

Is a Violation Case: Yes

1.Name of Project	Teerth Technospace AT Sr. No. 103, H. No. 2-14, Baner, Tal. Mulshi, Dist. Pune, State –Maharashtra.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vijay Raundal, M/s. Teerth Developers & Teerth Realities (JV)
4.Name of Consultant	Enviro Analysts and Engineers Pvt. Ltd
5.Type of project	Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	NEW PROJECT
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Sr. No. 103, H. No. 2-14, Baner, Tal. Mulshi, Dist. Pune, State –Maharashtra.
9.Taluka	Mulshi
10.Village	Baner
Correspondence Name:	Mr. Vijay Raundal
Room Number:	office no 102
Floor:	first floor
Building Name:	Sai Empire
Road/Street Name:	Baner Road
Locality:	Baner
City:	Pune
11.Whether in Corporation / Municipal / other area	PUNE MUNICIPAL CORPORATION
12.IOD/IOA/Concession/Plan Approval Number	YES
	IOD/IOA/Concession/Plan Approval Number: 0346/17 dated 9/5/2017
	Approved Built-up Area: 21827.52
13.Note on the initiated work (If applicable)	Work completed as per approvals received from time to time
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received Sanction for PMC. 1. CC/1168/08 dated :16/7/2008 , 2. CC/3942/10 dated :21/2/2011, 3. CC/ 3533/11 dated 31/12/2011, 4. CC/0232/13 dated :25/04/2013 , 5. CC/1613/14 dated :26/08/2014
15.Total Plot Area (sq. m.)	9736.00 sq.m.
16.Deductions	2510.16 sq.m.
17.Net Plot area	7225.84 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19224.10
	b) Non FSI area (sq. m.): 12929.94
	c) Total BUA area (sq. m.): 32154.04
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 21827.52
	Approved Non FSI area (sq. m.): -
	Date of Approval: 05-09-2017
19.Total ground coverage (m2)	2022.60
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.77 % of gross plot
21.Estimated cost of the project	950000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A,B,C	B+G+S+10	44.90

23.Number of tenants and shops	107 no. of offices including 7 no. of shops
24.Number of expected residents / users	2310 Nos.
25.Tenant density per hectare	117.09 tenant /hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m (min)
29.Existing structure (s) if any	Wing A- B+S+G+10, Wing B- B+S+G+10, Wing C- B+S+G+10. STATUS- constructed upto B+G+S+9. Constructed FSI area- 13280.50 sq. m, Constructed non -FSI area- 18012.92 sq. m. The total construction area of the project is 32154.04 sq.m. out of which 31293.42 sq.m. of area is constructed till date.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	35 KLD
	Recycled water - Flushing (CMD):	69 KLD
	Recycled water - Gardening (CMD):	4 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	108 KLD
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	12 KLD
Wet season:	**Source of water**	PMC + RWH
	Fresh water (CMD):	35 KLD
	Recycled water - Flushing (CMD):	69 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	104 KLD
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	16 KLD
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	-
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6 no. of recharge pits
	Size of recharge pits :	2m x 2m x 2m
	Budgetary allocation (Capital cost) :	2.5 lakhs
	Budgetary allocation (O & M cost) :	0.8 lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	0.86 m3/sec
	Size of SWD:	300 mm wide drain channel
Sewage and Waste water	**Sewage generation in KLD:**	94 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	115 KLD
	Location & area of the STP:	Under ground
	Budgetary allocation (Capital cost):	20.4 lakhs
	Budgetary allocation (O & M cost):	3 lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Scrap metal , Empty cement bags (50 kg capacity) , Aggregates , broken Tiles, Empty Paint cans (20 lit) were generated.
	Disposal of the construction waste debris:	Scrap metal was sold to recyclers, empty cement bags were sold to vendors, aggregates were reused for road preparation and leveling,broken tiles were reused used as china mosaic water proofing for terraces and skirting purpose, empty paint cans were sold to recyclers
Waste generation in the operation Phase:	**Dry waste:**	403Kg/day
	Wet waste:	175 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	5 kg/day
	Others if any:	E WASTE - 59 Kg/ Month

SEAC-AGENDA-000000278

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers
	Wet waste:	Processed in OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dry sludge will be used as manure.
	Others if any:	-
Area requirement:	**Location(s):**	ground
	Area for the storage of waste & other material:	30
	Area for machinery:	12
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	4 lakhs
	O & M cost:	1.5 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	849.33sqm. (11.75%)
	No of trees to be cut :	-
	Number of trees to be planted :	159
	List of proposed native trees :	AS BELOW
	Timeline for completion of plantation :	Before operation

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Caryota urens	Fish Tail Palm	24	ORNAMENTAL
2	Cassia Fistula	Bahava	30	SHADY
3	Lagerstroemia flosreginae	Tamhan	20	SHADY
4	Bauhinia blackeana	Kanchan	15	FLOWERING
5	Azadirachta indica	Neem	20	SHADY
6	Michelia champaca	Sonchapha	25	FLOWERING
7	Plumeria alba	Chapha	25	FLOWERING
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-000000278

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	2464 KW
	During Operation phase (Demand load):	2437 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	4X625 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

LED Lamp & Fitting For Common Areas i.e. . Parking, Staircase, Passage (20kw saving), Auto timer switched to switch 30% of lights & Fitting For Common Areas i.e. Parking, Staircase, Passage (40kw saving for 6 hours) , Up Lighter - & bollard Light Fitting For Landscape Area. (1kw saving) , Solar Street Light Fitting - Pole Light On Road Side. (5kw saving), Solar PV Panel on terrace 25 KW (1% of Demand Load).

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total % Savings	7
2	Total % Solar Savings	1% of demand load

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. 8.6 LAKHS
	O & M cost:	RS. 1.5 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	Air Environment	Water Sprinkling ,Green Belt Development, Covered storage area	1
2	Noise Environment	Noise Barricades and Green Belt Developments	1.5

SEAC-AGENDA-0000000278

3	Water Environment	Modular STP ,Drainage with sedimentation	0.75
4	Good Health Practices	Site Sanitation & HealthCare	0.5
5	Environment Monitoring	Air, water, noise soil monitoring during construction phase	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RHW tanks	2.5	0.8
2	Solid waste management	OWC	4.0	1.5
3	Waste water management	STP	20.4	3.0
4	Energy conservation	solar	30.0	1.0
5	Landscaping	greenbelt	8.6	1.5

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:	2

SEAC-AGENDA-0000000278

Parking details:	**Number and area of basement:**	1 basement of 6220.94 sqm
	Number and area of podia:	0
	Total Parking area:	6220.94 m2
	Area per car:	32
	Area per car:	32
	Number of 2-Wheelers as approved by competent authority:	2 WHEELERS- 840, CYCLES- 280
	Number of 4-Wheelers as approved by competent authority:	350
	Public Transport:	-
	Width of all Internal roads (m):	6 m (min)
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Above 15 km
	Category as per schedule of EIA Notification sheet	8a
	Court cases pending if any	COURT CASE NO. 1292/15 IN THE COURT OF CHIEF JUDICIAL MAGISTRATE AT PUNE. AWAITED FOR SUMMONS AS PER THE STATUS DATED 15-2-2018
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-04-2017

SEAC AGENDA-00000000278

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.

Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 7225.84m2, FSI area of m2, Non FSI area of 12929.94 m2 and total BUA of 32154.04m2.

The PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018. PP has carried out 31630.66 m2 construction work at site.

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

DECISION OF SEAC

SEAC-AGENDA-0000000278

During discussion following points emerged:

1. In CER, PP has proposed schemes of individual benefits like health check up and blood donation camps etc. Instead of this, PP to undertake asset creation activity for community benefit.

2. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1,95,00,000/-. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 95,00,000/- which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.95 Crore for the project completion period.

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

Specific Conditions by SEAC:

1) In CER, PP has proposed schemes of individual benefits like health check up and blood donation camps etc. Instead of this, PP to undertake asset creation activity for community benefit.
2) The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1,95,00,000/-. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 95,00,000/- which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.95 Crore for the project completion period.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

89th SEAC-3 Day 01

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Construction project

Is a Violation Case: No

1.Name of Project	"Tamarind Park " by M/s Dhankawade Pokale Developers
2.Type of institution	Private
3.Name of Project Proponent	M/s Dhankawade Pokale Developers
4.Name of Consultant	M/s. Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Residential and Commercial 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, 1. We have received the Environment Clearance from SEIAA, vide letter no No. SEAC-2010/CR.662/TC.2 EC dated 16-3-2012 for TBUA 41196.26 m2 2.We have received Sanction vide commencement certificate no PRH - NASR/1049/2014, dated – 20.02.2015 for FSI 26,651.42 m2
8.Location of the project	Plot Bearing S.NO. S. NO. 53- H. No. 1/1A/1A/A/A (P), S. NO. 52- H. NO. 7, , Village Dhayari, Taluka- Haveli, Dist- Pune
9.Taluka	Haveli
10.Village	Dhyayari
Correspondence Name:	M/s Dhankawade Pokale Developers
Room Number:	--
Floor:	--
Building Name:	Sr. No. 20/2, KP Nahar
Road/Street Name:	Pune Satara Road
Locality:	Dhanakawadi, Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Town planning
12.IOD/IOA/Concession/Plan Approval Number	Commencement certificate by TP
	IOD/IOA/Concession/Plan Approval Number: CC no. PRH - NASR/1049/2014, dated – 20.02.2015
	Approved Built-up Area: 63577.04
13.Note on the initiated work (If applicable)	We have initiated the work on site as per the earlier Environment Clearance and the sanctions received.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	32930
16.Deductions	786.01
17.Net Plot area	32143.99
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 31518.44
	b) Non FSI area (sq. m.): 32058.60
	c) Total BUA area (sq. m.): 63577.04
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 31518.44
	Approved Non FSI area (sq. m.): 32058.60
	Date of Approval: 20-02-2015
19.Total ground coverage (m2)	4833.92
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.04
21.Estimated cost of the project	1040000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000218

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Existing -A	P+7	23.15
2	Existing- B	P+7	23.15
3	Existing- C	P+7	23.15
4	Existing- D	P+12	37.65
5	Existing- E	P+12	37.65
6	Existing- F	P+12	37.65
7	Existing- G	P+12	37.65
8	Existing- H	P+12	37.65
9	Existing- I	P+12	37.65
10	Existing- J	P+12	37.65
11	Proposed-K	P+12	37.65
12	Proposed-L	P+4	14.45
13	Existing -M	P+3	11.55
14	Existing -N	G+1	6.70
15	Existing -O	P+4	14.45
16	Proposed - Amenity Building	G+4	19.05

23.Number of tenants and shops	Tenements= 528 , Shops= 49 Nos, Gym= 02 Nos., Multipurpose Hall= 02 Nos., Library= 01No, Recreation Hall= 01No.
24.Number of expected residents / users	Residential users: 2640 Nos. , Commercial users: 897 Nos., Total users: 3537 Nos.
25.Tenant density per hectare	197.60
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m external road, nearest fire station Nanded City is about 2.6 Km from the site. Katraj Fire station 5.6 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m
29.Existing structure (s) if any	13 Buildings as per earlier EC, having total FSI Area= 20,806.12 m2 Non FSI Area= 25,343.07 m2 Total Constructed Area= 46,149.19 m2 (FSI + Non FSI Area)
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

SEAC-AGENDA-0000000278

32.Total Water Requirement

Dry season:	**Source of water**	Grampanchayat Dhayari
	Fresh water (CMD):	253
	Recycled water - Flushing (CMD):	146
	Recycled water - Gardening (CMD):	23
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	422
	Fire fighting - Underground water tank(CMD):	375
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	170
Wet season:	**Source of water**	Grampanchayat Dhayari
	Fresh water (CMD):	253
	Recycled water - Flushing (CMD):	146
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	422
	Fire fighting - Underground water tank(CMD):	375
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	193
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	NA	NA	NA	NA	NA	NA	NA	NA	NA

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15-20m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	12 Nos.
	Size of recharge pits :	4 m x 3 m x 3 m
	Budgetary allocation (Capital cost) :	Rs. 18.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs.2.00 Lakhs/annum
	Details of UGT tanks if any :	1. Residential: Domestic UGR= 356.500 cum, FF UGR= 300.000 cum, Flushing UGR (in STP)= 119.000 cum. 2. Commercial: Domestic UGR= 20.200 cum, FF UGR= 75.000 cum, Flushing UGR (in STP)= 27.000 cum.
35.Storm water drainage	**Natural water drainage pattern:**	E to W
	Quantity of storm water:	0.471m3/sec
	Size of SWD:	0.45m (wide) x 0.9m (deep)
Sewage and Waste water	**Sewage generation in KLD:**	357
	STP technology:	MBBR
	Capacity of STP (CMD):	390 m3 (350+40)- 2 Nos.
	Location & area of the STP:	Near Building M
	Budgetary allocation (Capital cost):	Rs.60.02 Lakhs
	Budgetary allocation (O & M cost):	Rs.5.16Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	35 kg/day
	Disposal of the construction waste debris:	• Disposal of the construction waste debris: This material shall be used for back filling and leveling of the road internally
Waste generation in the operation Phase:	**Dry waste:**	717 kg/day
	Wet waste:	875 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	10 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized agency Swach
	Wet waste:	Will be treated in an Organic Waste Converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Near Bldg. G
	Area for the storage of waste & other material:	55 m2
	Area for machinery:	5.00 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 8.00 Lakhs
	O & M cost:	Rs. 2.00 lakhs/ annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	NA	Diesel	2	7.5m & 4.5m	0.03	350

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Diesel	Diesel	Diesel
41.Source of Fuel		Authorized Vendor		
42.Mode of Transportation of fuel to site		By Road		

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	3753.55 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	505
	List of proposed native trees :	As mentioned in the list below
	Timeline for completion of plantation :	Till the completion of the project.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	24	Medicinal value, To control soil erosion. To improve soil erosion
2	Bauhinia racemosa	Apta	29	Every part of the plant is medicinal, Drought tolerant species
3	Caryota urens	Fishtail palm	24	Grown in any type of soil. Very Hardy.
4	Citrus species	Lemon	24	Medicinal value, Edible fruit.
5	Dalbergia sisoo	Shisav	28	Medicinal value, Bird attracting species ,
6	Erythrina indica	Pangara	25	Fragrant flowers, Drought tolerant species, Birds atracting
7	Gmelina arborea	Shivan	25	Medicinal value, Drought tolerant species, Bird attracting species
8	Mimosups elengii	Bakul	24	Fragrant flowers, Medicinal value, To control soil erosion.
9	Murraya koengii	Kadipatta	24	Medicinal value, Edible leaves.
10	Nyctanthus arbortristis	Parijatak	11	Fragrant flowers, Medicinal value
11	Putranjiva roxburghii	Putrnjiva	16	Medicinal value, Drought tolerant species,
12	Roystonia regia	Bottle palm	20	Ornamental plant, Medicinal value, Birds & bats eat fruits
13	Aegle Marmelos	Bel	20	Medicinal value, Drought tolerant species
14	Compound wall Plants	-	-	-
15	Ailanthus excelsa	Maharukh	13	large deciduous tree, medicinal use
16	Albizia lebek	shirish	08	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
17	Anthocephalus kadamba	Kadamb	12	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
18	Azardirachta indica	Neem	12	Medicinal value, To control soil erosion. To improve soil erosion
19	Bauhinia blackiana	Kanchanraj	12	Every part of the plant is medicinal, Drought tolerant species.

SEAC-AGENDA-0000000278

20	Bauhinia purpurea	Gulabi kanchan	12	Every part of the plant is medicinal ,Drought tolerant species.
21	Butea monosperma	Palas	12	Medicinal value, Bird attracting species , To control soil erosion.
22	Cassia fistula	Bahawa	12	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
23	Choclospermum religiosum	Sonsawar	12	Medicinal value, Native species
24	Cordia dichotoma	Bhokar	12	Medicinal value, Edible fruits,
25	Dalbergia sisoo	Shisav	16	Medicinal value, Bird attracting species ,
26	Ficus arnottiana	Payar	16	Drought tolerant species, Bird attracting species. To control soil erosion
27	Ficus glomerata	Umber	16	Medicinal value, Edible fruits, Bird attracting species
28	Ficus retusa	Nandruk	14	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
29	Mangifera indica	Mango	08	Edible fruit, Bird attracting species.
30	Michelia champaca	Sonchaffa	08	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
31	Pongamia pinnata	Karanj	08	Medicinal value, Drought tolerant species, To control soil erosion. Hardy plant.
32	Syzygium cumini	Jamun	08	Medicinal value, Edible fruit.
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	Nerium single pink	1’6”	1.8
2	Adulsa	1’6”	1.8
3	Tarwad	1’0”	1.8
4	Chitrak	1’0”	1.8
5	Variegated tagar	1’0”	1.8
6	Stachytarpheta Blue	1’0”	1.8
7	Stachytarpheta Red	1’0”	1.8
8	Ratrani	1’0”	1.8
9	Shrimp plant red	1’0”	1.8
10	Mogra	1’0”	1.8
11	Sontakka	1’0”	1.8
12	Powder puff dwarf	1’6”	1.8
13	Cassica biflora	1’0”	1.8
14	Ficus black	2’0”	1.8
15	Ficus starlight	2’0”	1.8

SEAC-AGENDA-000000002178

16	Alpinia yellow varigated	1’0”	1.8
17	Euphorbia	1’6”	1.8
18	Kodia Yellow	1’0”	1.8
19	Heliconia orange upright	1’0”	1.8
20	Acalpha marble pink	1’0”	1.8
21	Kamini	2’0”	1.8
22	Allamanda miniature	1’0”	1.8
23	Hibiscus white regular	2’0”	1.8
24	Shankasur	2’0”	1.8
25	Ixora deep red	2’0”	1.8
26	Lagestromia indica	1’6”	1.8
27	Tantani	1’0”	1.8
28	Tagar blue	1’0”	1.8
29	Canara bush	1’0”	1.8
30	Nirgudi	1’0”	1.8
31	Sagargota	2’0”	1.8
32	Ber	2’0”	1.8
33	Takala	1’6”	1.8
34	Krushna kamal	9”	1.8
35	Ran Jai	1’0”	1.8

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	3231 KW
	During Operation phase (Demand load):	1588 KW
	Transformer:	22KV / 630 KVA – 3 No’s
	DG set as Power back-up during operation phase:	2 Nos.- 250 KVA – 1 No., 82.5 KVA 1 No.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

SEAC-AGENDA-000000278

• Solar Water Heating Systems Will Be Done For Bathrooms.

• Solar lights will be provided for common amenities like Street lighting & Garden lighting.

• LED based lighting will be done in the common areas, landscape areas, signage's, Entry gates and boundary compound walls etc.

• Auto Timer Switches will be provided for Street lights, Garden lights, Parking & staircase Lights & Other Common Area Lights, for saving electrical energy.

• Water Level Controllers with Timers will be used for Water Pumps.

• To create awareness to end consumer or flat owner, for using energy efficient light fittings LED Lights.

• Energy Saving Achieved per Day – 38112 KWH

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	TOTAL Annual Savings System in % With Solar PV Power, Hot Water System & LED Lighting.	12.29 5
2	TOTAL Annual Savings in % With Solar Hot Water System	8.65 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	1 No. 350 KLD	1 No.
OWC	1 No.	1 No.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 84.00 Lakhs
	O & M cost:	Rs. 1.68 Lakhs /annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression , Air & Noise monitoring	1.56
2	Water Environment	Tanker water for construction ,Water monitoring	2.04
3	Land Environment	Site Sanitation , Gardening	11.50
4	Socio- Economic Environment	Disinfection- Pest Control ,First Aid Facilities, Health Check Up, PPE	3.27

b) Operation Phase (with Break-up):

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

SEAC-AGENDA-0000000278

1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	--	15.18
2	Water	RWH	18.00	2.00
3	Water	STP	60.02	5.16
4	Energy	Solar Water Heating and Solar PV Panels	84.00	1.68
5	Land Environment	Garening	60.60	9.70
6	Solid Waste	OWC	8.00	2.00

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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	12034.30
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	659 Nos.
	Number of 4-Wheelers as approved by competent authority:	363 Nos.
	Public Transport:	Nearest Bus Stop
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA

SEAC-AGENDA-0000000278

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None in 10 Km.
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

SEAC-AGENDA-0000000278

PP submitted their application for expansion of earlier Environmental clearance for total plot area of 32930 m2, FSI area of 31518.44 m2, Non FSI area of 32058.60 m2 and total BUA of 63557.04 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit site specific, executable EMP with details of environmental parameters and monitoring frequency.

2. PP to submit phase wise programme considering wind directions for proposed construction with mitigation measures taken to avoid inconvenience to existing / nearby occupants.

3. PP to submit following NOCs: (i) Garden (ii) e-waste.

4. PP to submit UGT and UGT-overhead details.

5. PP to submit survival report of existing trees.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Environment Clearance for project by M/s Kasturi Developers

Is a Violation Case: No

1.Name of Project	Epitome
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh Bhange
4.Name of Consultant	M/s. JV Analytical Services
5.Type of project	Residential & Commercial
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, Vide No. SEAC-III- 2014/C.R.59/TC-3 Dated 11.08.2016
8.Location of the project	S. No. 129 (P), Kala Khadak, Wakad, Pune
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Mr. Bharat Agarwal
Room Number:	-
Floor:	2nd Floor
Building Name:	1st Adams Court
Road/Street Name:	Baner Road
Locality:	Opp Hotel Mahabaleshwar, Baner
City:	Pune- 411045
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: B.P./ENVIRONMENT/WAKAD/06/2016
	Approved Built-up Area: 43338.69
13.Note on the initiated work (If applicable)	26254.79 m2 (As per EC received on 11.08.2016)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	13972.00 m2
16.Deductions	2139.23 m2
17.Net Plot area	11832.77 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21226.09 m2
	b) Non FSI area (sq. m.): 22112.60 m2
	c) Total BUA area (sq. m.): 43338.69
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 21226.09
	Approved Non FSI area (sq. m.): 22112.60
	Date of Approval: 02-07-2016
19.Total ground coverage (m2)	1547.90
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11.07% of total plot area13972.00 m2 & 13.33% of net plot area 11832.77 m2
21.Estimated cost of the project	780000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	B + P +17	54.40
2	Building B	B + P +17	54.40
3	Building C	B + P +17	54.40
4	Building D	B + P +21	67.20
5	Commercial Building	G+1	7.00

23.Number of tenants and shops	Total Tenements - 135 Nos. Commercial Shops : 5 Nos.
24.Number of expected residents / users	Residential Users: 675 Nos. Commercial Users: 63 Nos. Total User: 738 Nos.
25.Tenant density per hectare	80
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	125.53 m3/day
	Recycled water - Flushing (CMD):	32.57 m3/day
	Recycled water - Gardening (CMD):	22.47 m3/day
	Swimming pool make up (Cum):	1.41 m3/day
	Total Water Requirement (CMD) :	70.49 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	80 m3
	Excess treated water	34.00 m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	103.06 m3/day
	Recycled water - Flushing (CMD):	32.57 m3/day
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	1.41 m3/day
	Total Water Requirement (CMD) :	70.49 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	80 m3
	Excess treated water	56.47 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: • Main Pool = 18.10 M x 6.10 M x 1.12 M Deep = 132.49 m3 • Kids pool= 3.00M x 4.95 M x 0.60 M Deep = 8.91 m3 Total water Requirement in KLD: -141.40 m3 Water requirement in KLD: 1.41 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored: Capital cost: Rs. 28.30 Lakh O & M Cost : Rs.2.70 Lakh/Year	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post Monsoon: 6 to 8m below ground level Pre Monsoon : 15 to 25m below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	2 m x 2 m x 1 m
	Budgetary allocation (Capital cost) :	Rs. 1.5 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakh/year
	Details of UGT tanks if any :	Domestic UG tank Capacity :92.11 m3 Flushing UG tank Capacity :82.74 m3 Fire UG tank Capacity :200 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	6076cum/annual
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	89.04 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	90.00 m3/day
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs.15.50 Lakh
	Budgetary allocation (O & M cost):	Rs. 7.80 Lakh/ year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	144.45 Kg/Day
	Wet waste:	208.80 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	8.01 kg/day (100% dry)
	Others if any:	-

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	SWACH
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	-
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	46 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.11.00 Lakh
	O & M cost:	Rs. 2.62 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	625 KVA- DG SET - 2 Nos.	HSD- 28.6 Gal/Hr	2	5 m	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	28.6 Gal/ Hour for 100%	28.6 Gal/ Hour for 100%
41.Source of Fuel		Bharat Petoleum Corporation limited /Hindustan Petroleum		
42.Mode of Transportation of fuel to site		by roadway		

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	1320.27 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	175 Nos
	List of proposed native trees :	-
	Timeline for completion of plantation :	Before 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	Anthocephalus cadamba	Kadamb	16	Native, evergreen, gives shade, flowers, mythological value & wound healing medical use
2	Terminalia catappa	Badam	13	Fruits is edible tasting slightly, Herbal Medicine Use
3	Bauhinia purepurea	Kanchan	12	Native, attracts birds and insects, medicinal value
4	Plumeria alba	Champa	15	Native, evergreen, for beautiful fragrant flowers
5	Plumeria rubra	Laalchafa	19	Anti-oxidative & proteolytic activities medicine use & fragrant flowers
6	Callistemon viminalis	Weeping bottlebrush	19	Native, for shade, medicinal value, attracts birds & insects
7	Flcus benjamina	Weeping fig	14	Evergreen tree, non flowering, Native, can be pruned and given topiary effect
8	Cassia javanicca	Apple blossom cassia	14	The fruits (legumes) ripen in the fall.
9	Cordia sebestana	Geiger tree	11	an Ornamental plants, flowering plants
10	Putranjiva roxburghii	Putra- jiva	15	evergreen tree, Seed yields fatty oil used for burning, medicinal value
11	Areca catechu	Supari	15	Medicinal value, Ornamental plants
12	Roystonea	Royal plam	12	Medicinal value, Ornamental plants
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000678

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	65 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	1714 KW
	During Operation phase (Demand load):	1184.09 KVA
	Transformer:	630 KVA x 2 Nos.
	DG set as Power back-up during operation phase:	625 KVA – 2 Nos.
	Fuel used:	28.6 Gal/ Hour for 100%
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Power Capacitors are proposed for load power factor correction and to maintain a healthy power situation. This also results in less demand load factor for the project.
• All lifts are proposed on VFD drives which results in 20% saving in power consumption and approximately 20% savings in energy consumption.
• Most of the common area lighting are proposed to work on high energy efficient lamps (LED) as specified in bureau of energy efficiency which again results in saving in general consumption.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Units Saved	20%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	-	Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC Dry Waste will be given to SWACH

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 90 Lakh/year
	O & M cost:	Rs. 5.5 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

SEAC-AGENDA-0000000278

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation –Mobile toilets	0.50 Lakh/Year
4	Socio-economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00 Lakh/Year

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	Sewage treatement plant	15.50	7.80
2	RWH	Rain Water Harvesting	1.50	0.50
3	MSW	OWC	11.00	2.62
4	Solar Energy System	-	90.00	5.50
5	Landscaping	-	28.45	4.09
6	Swimming Pool	-	28.30	2.70
7	Safety Equipment	-	10.00	2.00
8	Post EC Monitoring	-	0.00	2.50
9	Dry Waste Management	-	0.00	0.81

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-

SEAC-AGENDA-0000000278

Parking details:	Number and area of basement:	5135.60 m2
	Number and area of podia:	-
	Total Parking area:	7729.61 m2
	Area per car:	52.22 m2
	Area per car:	52.22 m2
	Number of 2-Wheelers as approved by competent authority:	284
	Number of 4-Wheelers as approved by competent authority:	148
	Public Transport:	-
	Width of all Internal roads (m):	7.5 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	B2
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-09-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

SEAC AGENDA-0000000278

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 13972 m2, FSI area of 21226.09m2, Non FSI area of 22112.60 m2 and total BUA of 43338.69 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000278

During discussion following points emerged:

1. The Committee noted that the earlier drawing approved with 112 car parking in basement whereas requirement now shown is 148 in same basement, which is difficult to accommodate. Clarity of accommodating the extra 36 parking needs to be submitted with drawing along with approved parking plan..

2. PP to submit revised drawing indicating ramp width. Revised parking statement shall be submitted accordingly.

3. PP to submit details of existing socio-economic infrastructure – primary, pre-primary schools etc. within vicinity.

4. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

5. PP to revise EMP to make it site specific, executable encompassing monitoring matrix, Environment Cell and responsibility for execution of EMP.

6. PP to submit energy saving calculations.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Proposed Residential and Commercial Project at Sr. no 78, Near celestial city, Ravet-Aundh BRT Road, village - Ravet, Taluka - Haveli, Pune.

Is a Violation Case: No

1.Name of Project	Proposed Residential and Commercial Project at Sr. no 78, Near celestial city, Ravet-Aundh BRT Road, village - Ravet, Taluka - Haveli, Pune.
2.Type of institution	Private
3.Name of Project Proponent	M/s BVG Developers
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Residential and Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	New Project
8.Location of the project	Sr. no 78, Near celestial city, Ravet-Aundh BRT Road, village - Ravet, Taluka - Haveli, Pune.
9.Taluka	Haveli
10.Village	Ravet
Correspondence Name:	Mr. B.V. Gaikwad
Room Number:	Shop No-D/14/B-5
Floor:	-
Building Name:	B-Wing
Road/Street Name:	Sant Tukaram vyapar Sankul,
Locality:	Nigdi
City:	Pune-411044
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	B.P./EC/Ravet/02/18 Dated 16/02/18
	IOD/IOA/Concession/Plan Approval Number: BP/EC/Ravet/02/18 Dated 16/02/18
	Approved Built-up Area: 40471.72
13.Note on the initiated work (If applicable)	No work initiated on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	B.P./EC/Ravet/02/18 dated on 16.02.2018
15.Total Plot Area (sq. m.)	20,800.00 sq.m.
16.Deductions	2295.95 sq.m.
17.Net Plot area	16652.36 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 40471.72
	b) Non FSI area (sq. m.): 30335.78 sq.m.
	c) Total BUA area (sq. m.): 70807.50
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 40471.72 sq.m.
	Approved Non FSI area (sq. m.): 30335.78 sq.m.
	Date of Approval: 16-02-2018
19.Total ground coverage (m2)	3027.20 sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	14%
21.Estimated cost of the project	1523186496

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Building	2 P+20	63.70
2	B Building	2 P+20	63.70
3	C Building	2 P+20	63.70
4	D Building	2 P+20	63.70
5	Commercial (Shop: 7 and Office :35)	2 BP+G+5	20.20
6	MHADA	P+9	30.20

23.Number of tenants and shops	685 tenements, 7 shops & 35 offices
24.Number of expected residents / users	Residential : 3080 Nos. , Commercial: 1030 Nos. , MHADA : 345 Nos.
25.Tenant density per hectare	349.51 tenants/ 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)	Nearest Fire Station: Pradhikaran Fire station 3.28 Km away from project site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9.00 m.
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	329
	Recycled water - Flushing (CMD):	180
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	519
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	20 Each
	Excess treated water	268
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	329
	Recycled water - Flushing (CMD):	180
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	509
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	278
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	509	509	Not applicable	51	51	Not applicable	458	458
Gardening	Not applicable	10	10	Not applicable	10	10	Not applicable	0	0

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 17.84 M
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10
	Size of recharge pits :	2.50 m. X 2.50 m. X 1.75 m. Depth with 60 m. Deep 6” Dia. Bore Well via 2 No. of de-siltation pits of 0.9 m. Dia. 1.0 m. Deep. Harvesting Capacity: 6,635.00 m3/Year i.e. 132.70 m3/ Day.
	Budgetary allocation (Capital cost) :	12.50 Lakh.
	Budgetary allocation (O & M cost) :	Rs. 0.50 Lakh / year.
	Details of UGT tanks if any :	Residential: Domestic UG tank Capacity: 465 KLD Flushing UG tank Capacity: - 160 KLD Fire UG tank Capacity: 375 KLD Commercial: Domestic UG tank Capacity: 30 KLD Flushing UG tank Capacity: 40 KLD Fire UG tank Capacity: 50 KLD
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	10,078.33 m3 per year i.e. 201.57 m3 per day Considering 722.00 mm. annual rain fall in 50 days averagely.
	Size of SWD:	600 mm internal
Sewage and Waste water	**Sewage generation in KLD:**	Residential: 416 KLD and Commercial: 42 KLD
	STP technology:	Residential: 420 KLD and Commercial: 45 KLD
	Capacity of STP (CMD):	MBBR
	Location & area of the STP:	Near Mhada building and commercial building (Ground Level)
	Budgetary allocation (Capital cost):	Rs. 48.50 Lakhs
	Budgetary allocation (O & M cost):	Rs. 19.80 Lakhs/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation Debris details 4578.82 cum approx.
	Disposal of the construction waste debris:	Construction waste debris will be reused at the same site. Excess will be used for filling purpose of our own development sites as much as possible. Rest will be disposed off to authorized sites. Quantity of 2289.41 cum top soil to be preserved which is being utilized for landscaping.
Waste generation in the operation Phase:	**Dry waste:**	840 kg/day
	Wet waste:	1131 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	87 kg/day
	Others if any:	E waste - 7.5 Kg/day

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be disposed off through authorized contractors.
	Wet waste:	Wet garbage shall be treated in organic waste converter (OWC) on site and manure so obtained will be used in landscaping.
	Hazardous waste:	Waste oil from D.G. sets will be handed over to authorized vendor.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP to be mixed with wet waste and processed in OWC, this will be used as manure for gardening.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	14 sq.m. + 6 sq.m.= 20 sq.m
	Area for machinery:	58 sq.m. + 22 sq.m.= 80 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 39.50 Lakhs
	O & M cost:	Rs. 8.65 Lakhs /annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 DG Sets 125 KVA	20.2 ltr/hr @75% loading	2	4.22 m	3 m	450 degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	20.2 Litres /hr	Not applicable

41.Source of Fuel	Authorized Vendor
42.Mode of Transportation of fuel to site	By road

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	1851.69 sq.m.
	No of trees to be cut :	3
	Number of trees to be planted :	201
	List of proposed native trees :	12 species
	Timeline for completion of plantation :	1 year

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	Mimusop Ellengii	Bakul	14	Indigenous species, Medium sized, Yellow flowering, attract birds.
2	Cassia Glauca	Cassia	15	Yellow Flowering seasonal, require less water.
3	Acrus Sapota	Chikoo	24	Seasonal fruit plant, dense foliage, Shady.
4	Michelli Champaka	Sonchafa	15	Medium sized, Yellow flowering, Fragrant, Flowers used for worshipment.
5	Royale Palm	Bottle Palm	14	Tall growing, Avenue plant
6	Magnifera Indica	Mango	24	Fruit plant, Popular fruit, King of fruits, Seasonal, Shady.
7	Bauhinea Blackenea	Kanchan	10	Indigenous specie. Dark purple flowering,
8	Cordia Sabistana	Cordia	10	Orange Flowering, evergreen foliage, Shady
9	Millintonia Hortensis	Booch	12	Indigenous Specie, White flowering, Fragrant, Bird attracting, Shady
10	Plumeria Alba	Chafa	17	White flowers, Fragrant, commonly planted.
11	Azadirachta Indica	Neem	20	Medicinal Plant, Generates Oxygen. Evergreen, Shady.
12	Ficus Benjamina	Ficus	26	Very shining foliage, dense, Shady.
13	Total Trees	-	201	-
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000278

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	1 NO X 125 KVA
	During Operation phase (Connected load):	3606 KW
	During Operation phase (Demand load):	1937 KW
	Transformer:	3 Nos X 630 KVA+ 1 No X 315 KVA
	DG set as Power back-up during operation phase:	2 Nos X 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar PV Panel Energy
2. Timer Logic Controller
3. Electronic V3F Drives for lifts
4. Solar Water Heaters

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panel Energy (25650 KWH/Annum)	0.33 %
2	Timer Logic Controller (93601 KWH/Annum)	1.22 %
3	Electronic V3F Drives for lifts (39754 KWH/Annum)	0.52 %
4	Solar Water Heaters (1191900 KWH/Annum)	15.54 %
5	Total (1350905 KWH / Anum)	17.61 %.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water pollution due to domestic sewage	Not applicable	STP
Solid waste	Not applicable	OWC
Air pollution and Noise pollution due to DG set	Not applicable	Stack of required height and acoustic enclosure for noise control

SEAC AGENDA-0000000278

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	141.18 Lakhs
	O & M cost:	4.5 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air & Noise Environment	Water For Dust Suppression and Air & Noise monitoring	2.5
2	Water Environment	Tanker water for construction & worker and Water monitoring	2.02
3	Land Environment	Mobile Toilets & maintenance	1.86
4	Biological Environment	Gardening & Excavation, transplantation	3.94
5	socio economic Environment	Disinfection at site, Safety, First Aid, Health Hygiene Facilities, Health Check Up, Creches for children, Personal Protective Equipment and Drinking water	9.55
6	Total	-	19.97

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 water treatment	Waste water Treatment	48.50	19.80
2	Rain Water Harvesting	Recharge pits 10 Nos.	12.0	0.50
3	Environmental Monitoring	For Air, Water, soil and Noise analysis from MoEF accredited lab	20.0	15.49
4	Gardening	Plantation of 201 trees	16	4.8
5	Solid waste Management	2 No. of OWC	39.50	8.65
6	Energy saving Measures	Solar Street Lightning Power Pack System & solar PV	141.18	4.5
7	Total	-	277.18	53.74

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

SEAC-AGENDA-0000000278

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:	Separate entry and exit roads with minimum 18 m abutting road and Drive way designed for the project is 6.00 mt wide.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	11964.30 Sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1586
	Number of 4-Wheelers as approved by competent authority:	415
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA

SEACAGENDA-00000000278

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for expansion of earlier Environmental clearance for total plot area of 20,800 m2, FSI area of 40472.72 m2, Non FSI area of 30335.78m2 and total BUA of 70807.50 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000278

During discussion following points emerged:

1. PP to submit revised fire tender movement plan by relocating UGT out of drive way showing width of 6 m all around.

2. PP to submit cross section of drive way at 4 different locations indicating relocated UGT.

3. PP to submit parking layout plan for all levels and parking statement with area of 30 m2/car.

4. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner.

5. PP to submit following NOCs : (a) CFO, (b) Tanker agreement

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Environment Clearance for Building Construction Project By Pride Purple Infrastructure & Pride Purple Properties at Marunji, Pune

Is a Violation Case: No

1.Name of Project	Proposed Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Pride Purple Infrastructure & Pride Purple Properties
4.Name of Consultant	Building Environment India Pvt Ltd
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. 5, Gut.No. 40/1/1,40/1/2, 40/2,40/3,40/4/1,40/4/2,40/5,40/6,40/7,40/8,40/9/1,40/9/2,40/10,41/1,41/2,41/3/1,41/3/2,41/4/1,41/4/2,41/5,41/6/1,41/6/2,44/2,51/7/2,51/8 at Marunji, Pune.
9.Taluka	Mulshi
10.Village	Marunji
Correspondence Name:	Mr. Arvind Premchand Jain
Room Number:	-
Floor:	5th floor
Building Name:	Pride House
Road/Street Name:	S.B.Road
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Metropolitan Region Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	IOD from PMRDA
	IOD/IOA/Concession/Plan Approval Number: BMU/Marunji/Letter no. 1342/18-19 dated 07/03/2019
	Approved Built-up Area: 50426.52
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	26554.69
16.Deductions	NA
17.Net Plot area	26554.69
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 50426.52
	b) Non FSI area (sq. m.): 47740.93
	c) Total BUA area (sq. m.): 98167.45
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 50426.52
	Approved Non FSI area (sq. m.): 47740.93
	Date of Approval: 07-03-2019
19.Total ground coverage (m2)	4584.12
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	52.68 %
21.Estimated cost of the project	1309507111

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A & B Building	B + ST + 17	53.70 M
2	C & D Building	B + ST + 17	53.70 M
3	E & F Building	B + ST +18	56.65 M
4	G & H Building	B + ST + 18	56.65 M
5	I & J Building	B + ST + 17	53.70 M
6	K & L Building	B + ST + 17	53.70 M

SEAC-AGENDA-0000000278

7	Business Center facility	G	3.75 M
8	Community Hall	G	3.75 M
9	Indoor Badminton Hall	G	6.70 M
10	Club House	G + 1	6.55 M

23.Number of tenants and shops	Residential - 832 tenements and Business Center Facility, Community Hall, Indoor Badminton Hall, Club House
24.Number of expected residents / users	4190
25.Tenant density per hectare	250/10 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)	24 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	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	NA	NA	NA	NA

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	Irrigation Department
	Fresh water (CMD):	375.5 cum/day
	Recycled water - Flushing (CMD):	188 cum/day
	Recycled water - Gardening (CMD):	27 cum/day
	Swimming pool make up (Cum):	10 cum/day
	Total Water Requirement (CMD) :	563.5 cum/day
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	For each wing (A,B,C,D,I,J,K,L) - 10 CMD, For each wing (E,F,G,H) - 10 CMD,
	Excess treated water	282 CMD
Wet season:	**Source of water**	Irrigation Department
	Fresh water (CMD):	375.5 cum/day
	Recycled water - Flushing (CMD):	188 cum/day
	Recycled water - Gardening (CMD):	0.0 cum/day
	Swimming pool make up (Cum):	10.00 cum/day
	Total Water Requirement (CMD) :	563.5 cum/day
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	For each wing (A,B,C,D,I,J,K,L) - 10 CMD, For each wing (E,F,G,H) - 10 CMD,
	Excess treated water	307.25 CMD

SEAC-AGENDA-0000000278

Details of Swimming pool (If any)	• Dimensions of swimming pool: Main Pool Size: 20m X 8m Main Pool Depth: 1.2 M Main Pool Volume: 1, 92,000 Liters Pool Shape: Rectangular Bal. Tank Volume: 9,000 Lit Total System Volume: 2, 01,000 Lit. Turn Over Time : 4-5 Hours • Water requirement for Make up: 10,000 lit/week • Details of plant & Machinery used for treatment of swimming pool water: high Rate sand filter system. • Disinfection: 1. chlorination, 2. Ozonators & Ultra Violet sterilizers • Details of quality to be achieved for swimming pool water and parameters to be monitored: Free chlorine for Private Pools: 1 1.5 ppm (mg/l)* Super-chlorination: at least 3.0/5.0 ppm (mg/1) Shock Treatment (heavy algae): at least 10 ppm (mg/1) pH: 7.2 7.6 Total Alkalinity: 80 120 ppm (mg/1) Calcium Hardness: 200 ppm Minimum Total Dissolved Solids: less than 1500 ppm (mg/1) for pools Cyanuric Acid (Stabiliser): less than 100 ppm (mg/1) • Budgetary allocation (Capital cost): Rs. 50 Lakhs (O & M cost): Rs. 15,000//month

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 to 20 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7 nos.
	Size of recharge pits :	Dia of recharge pit : 2.5 m, Depth of recharge pit : 5 m
	Budgetary allocation (Capital cost) :	8.0 lakh/year
	Budgetary allocation (O & M cost) :	1.6 lakh/year
	Details of UGT tanks if any :	Domestic : 390 CMD Drinking : 93.75 CMD Flushing : 187.5 CMD Firefighting : 300 CMD

SEAC-AGENDA-0000000278

35.Storm water drainage	**Natural water drainage pattern:**	North to South direction
	Quantity of storm water:	304.91 cum/day
	Size of SWD:	600 mm x 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	507
	STP technology:	MBBR techonology
	Capacity of STP (CMD):	1 nos. of STP - 550 KLD
	Location & area of the STP:	On Ground area for STP : 276 Sq.m.
	Budgetary allocation (Capital cost):	1.38 Cr
	Budgetary allocation (O & M cost):	23.2 lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation Debris - 26673 m3
	Disposal of the construction waste debris:	Backfilling : 26673 m3
Waste generation in the operation Phase:	**Dry waste:**	838 kg/day
	Wet waste:	1257 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	82 kg/day
	Others if any:	E waste - 25140 kg/year
Mode of Disposal of waste:	**Dry waste:**	Through SWACHH organization
	Wet waste:	Organic waste converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as a Manure
	Others if any:	E waste - Collected and Disposed by SWACHH organisation
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	130 Sq.m.
	Area for machinery:	130 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	26.39 Lakhs
	O & M cost:	6.05 Lakhs/year

37.Effluent Charecterestics

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

SEAC-AGENDA-0000000278

1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG 500 KVA x 2 nos.	Diesel	2	3.9 above building height	-	Not applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	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 :**	5962.6 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	332 nos.
	List of proposed native trees :	Enclosed as an Annexure
	Timeline for completion of plantation :	Plantation work will be done in phases over 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	Neem	Azadiracta Indica	5	Medicinal tree
2	Mango	Mangifera Indica	5	Fruit Tree
3	Jackfruit	Artocarpus Heterophyllus	3	Fruit Tree
4	Guava	Psidium Guajava	3	Fruit Tree

SEAC-AGENDA-0000000278

5	Chikoo	Manikara Zapota	3	Fruit Tree
6	Bahava	Cassia Fistula	10	Flowering Tree
7	Parijatak	Nycanthes Arbor-Tristis	15	Flowering Tree
8	Lemon	Citrus SP	3	Fruit Tree
9	Chapha	Michelia Champaca	5	Flowering Tree
10	Tamhan	Lagerstromia Flos-regineae	15	Flowering Tree
11	Bakul	Mimusops Elengi	4	Flowering Tree
12	Kadamb	Anthocephallus Cadamba	30	Flowering Tree
13	Arjuna	Terminilia Arjuna	25	Fruit Tree
14	Satwin	Alstonia Scholaris	27	Ornamental
15	Indian Cork Tree	Millingtonia Hortensis	32	Flowering Tree
16	Nandrunk	Ficus Retusa	25	Ornamental
17	Mahogany	Mahogany Swietenia	36	Ornamental
18	Kunti	Murraya Paniculata	36	Flowering Tree
19	Date Palm	Phoenix Slyvestris	30	Ornamental
20	Sita Ashok	Saraca Asoka	20	Ornamental
21	Total Quantity of plants	-	332	-
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	1. Buddha Belly Bamboo	2'c/c	856.44
2	2. Ficus Panda	1'c/c	1231.56
3	3. Asparagus Sprengeri	6"c/c	187.56
4	4. Aclypha Bronze Red	1'c/c	250.56
5	5. Galphinia Glauca	1'c/c	334.44
6	6. Hemelia Pattens	2'c/c	294.84
7	7. Tagar Mini	1'c/c	275.40
8	8. Pentas	1'c/c	276.48
9	9. Pandanus	1 1/2'c/c	166.32
10	10 Raphis Palm	1 ½'c/c	198.72
11	11 Raphis Excelsa	1 ½'c/c	112.32
12	12 Hedychium	1'c/c	27.36
13	13 Mini Ixora	1 ½'c/c	298.08
14	14 Heliconia	1 ½'c/c	56.52
15	15 Cupea	1'c/c	23.04
16	16 Golden Bamboo	1'c/c	50.76
17	17 Verigated Tagar	1 ½'c/c	114.84
18	18 Tecoma Copensis	1'c/c	149.4
19	19 Inerme	1'c/c	48.96
20	20 Murraya Peniculata	1 ½'c/c	493.20

SEAC AGENDA-0000000278

21	10 Raphis Palm	1 ½'c/c	198.72
22	11 Raphis Excelsa	1 ½'c/c	112.32
23	12 Hedychium	1'c/c	27.36
24	13 Mini Ixora	1 ½'c/c	298.08
25	14 Heliconia	1 ½'c/c	56.52
26	15 Cupea	1'c/c	23.04
27	16 Golden Bamboo	1'c/c	50.76
28	17 Verigated Tagar	1 ½'c/c	114.84
29	18 Tecoma Copensis	1'c/c	149.4
30	19 Inerme	1'c/c	48.96
31	20 Murraya Peniculata	1 ½'c/c	493.20
32	21 Jathropa	1 ½'c/c	118.08
33	22 Caesalpinia Pulcherrima	3'c/c	121.32
34	23 Alpinia	1 ½'c/c	48.60
35	24 Wadelia	9” c/c	16.2
36	25 Bouganvillae	2'c/c	33.84
37	26 Mini Almanda	1'c/c	106.92
38	27 Calliandra Dwarf	1'c/c	15.33
39	28 Cana Verigated	1 ½'c/c	25.2
40	Total Shrub Area	-	5935.89 Sq.m.

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	1 No. x 82.5 KVA
	During Operation phase (Connected load):	2711 KW
	During Operation phase (Demand load):	2169 KW
	Transformer:	1000 KVA X 3 No.
	DG set as Power back-up during operation phase:	500 KVA X 2 No.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

SEAC-AGENDA-000000278

T5 lamp & Electronic Ballasts are proposed for parking areas.
• LED type of light source is proposed for common Lobby, Lounge, and Staircase area.
• Automatic time based controls are proposed for all outside lighting to save power by avoiding manual switching ON & OFF the lights.
• Motion Sensors are proposed in Car Parking Areas & Lift lobbies.
solar system for hot water

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heater	228599.28 KWH/ANNUM
2	Solar PV for Common Lighting	1 %
3	% of saving / year	31 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Acoustically enclosed DG set will be brought & installed
Solid Waste	-	Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC Dry Waste will be given to SWACHH Organization.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Substations - 1.3 Cr, DG set - 86 lakh, Solar PV - 29.40 Lakh
	O & M cost:	Substations - 50000/year, DG Set - 50000/Year, Solar PV - 30000/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	Personnel Protective Equipment's	Helmet, Ear plugs, Mask, Hand gloves, safety shoes, ropes	8.0
2	Site Sanitation Facilities	Mobile toilets and cleaning facilities	4.0
3	Solid Waste Management	Dust bins and cleaning	3.0
4	Water Provision	Drinking water for workers and water for dust suppression	13.0
5	Environment Monitoring	Air, Water, Noise, Soil testing	4.0
6	Health check-up, first Aid facilities for workers	-	2.0
7	Awareness and Training for workers	Environment & Safety Awareness	2.0
8	Total	-	36.0

SEAC-AGENDA-0000000278

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Treatment Plant	47 KLD/hr	10.60	3.60
2	Sewage Treatment Plant	550 KLD	138.00	23.2
3	Solid waste Management	1257 Kg/day	26.39	6.05
4	Recharge Pits	8 nos.	8.0	1.6
5	Landscaping	332 trees	36.78	4.20
6	Solar System	use of solar panels for hot water , Solar PV	71.00	1.63
7	Environmental Monitoring	MoEF approved laboratory	-	5.0
8	Water Supply Pipeline	Pipeline & Pump connection	205.00	24.00
9	External Sewer line	Connect to Existing drainage line	36.00	-
10	External Storm Line	Connect to Existing Storm Line	40.30	-
11	Total Cost	-	572.07	69.28

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:	NA

SEAC-AGENDA-0000000278

Parking details:	**Number and area of basement:**	1 no. of Basement , Basement slab area - 10816.16 Sq.mt.
	Number and area of podia:	1 no. of Podium, Podium slab area - 9049.35 Sq.mt.
	Total Parking area:	19865.51 Sq.mt.
	Area per car:	2.5 x 5 m
	Area per car:	2.5 x 5 m
	Number of 2-Wheelers as approved by competent authority:	Scooter - 832 nos., Cycle - 832 nos.
	Number of 4-Wheelers as approved by competent authority:	Car - 277 nos.
	Public Transport:	Pune Municipal Transport (PMT Buses)
	Width of all Internal roads (m):	12 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	Category B
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC AGENDA-0000000278

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 26554.69 m2, FSI area of 50426.52 m2, Non FSI area of 47740.93m2 and total BUA of 98167.45 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to revise CER plan and include asset creation activities which are useful for community and details of activity shall be clearly mentioned therin.

SEAC decided to recommend the proposal for prior environmental Clearance, subject to PP complying with the above conditions.

Specific Conditions by SEAC:

1) PP to revise CER plan and include asset creation activities which are useful for community and details of activity shall be clearly mentioned therin.

FINAL RECOMMENDATION

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

SEAC AGENDA 0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Proposed Residential & Commercial development project Namely Berjaya Hills at S.No.79 (P) at Village Ñame - Dighi, Tal.Haveli, Dist. Pune, Maharashtra

Is a Violation Case: No

1.Name of Project	Berjaya Hills
2.Type of institution	Private
3.Name of Project Proponent	Mr. Prasad Pawar
4.Name of Consultant	M/s. Building Environment (I) Pvt. Ltd.
5.Type of project	Residential project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No.79 (P)
9.Taluka	Haveli
10.Village	Dighi
Correspondence Name:	V -Square Properties LLP
Room Number:	Office No.202
Floor:	2nd Floor
Building Name:	B-Zone, Beside Vijay Sales
Road/Street Name:	Old Pune Mumbai Highway
Locality:	Pimpri
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	B.P./EC/Dighi/01/18 dt. 14/12/2018
	IOD/IOA/Concession/Plan Approval Number: B.P./EC/Dighi/01/18 dt. 14/12/2018
	Approved Built-up Area: 35391.45
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	7738.46 Sq.m.
16.Deductions	2148.41 Sq.m.
17.Net Plot area	5590.05 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15402.03
	b) Non FSI area (sq. m.): 19989.42
	c) Total BUA area (sq. m.): 35391.45
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 15402.03
	Approved Non FSI area (sq. m.): 19989.42
	Date of Approval: 14-12-2018
19.Total ground coverage (m2)	1754.02
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31.37 % of Net Plot Area
21.Estimated cost of the project	661801180

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	MP + GP + 11	36.75
2	Wing B & C	MP + GP + 11	36.75
3	Wing D	MP + GP + 11	36.75
4	Club House	G + 1	7.20

23.Number of tenants and shops	Wing A – 66 Nos. Flat & Office – 38 Nos. Wing B – 86 Nos. Wing C – 86 Nos. Wing D- 86 Nos. Total – 324 Nos. Flat & 38 Nos. Office
24.Number of expected residents / users	Residential – 1444 Nos. Commercial – 108 Nos. Total – 1552 Nos.
25.Tenant density per hectare	250 / ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m to 60.00 m wide D.P. road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9.0 m
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000278

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	204
	Recycled water - Flushing (CMD):	67
	Recycled water - Gardening (CMD):	04
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	304
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	99
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	200
	Recycled water - Flushing (CMD):	67
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	200
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	103
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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6-8 m bgl
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	5 nos.
	Size of recharge pits :	1.5 m x 1.5 m x 1.5 m
	Budgetary allocation (Capital cost) :	7.5 Lakh
	Budgetary allocation (O & M cost) :	0.3 Lakh
	Details of UGT tanks if any :	Raw Water Tank – 53186 lt. Treated Water Tank – 79779 lt. Firefighting – 100000 lt.
35.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	286 m3
	Size of SWD:	150 mm & 200 mm dia pipes
Sewage and Waste water	**Sewage generation in KLD:**	175
	STP technology:	MBBR
	Capacity of STP (CMD):	1 Nos. 175 KLD
	Location & area of the STP:	Near Building & 114 Sq.m.
	Budgetary allocation (Capital cost):	20 Lakh
	Budgetary allocation (O & M cost):	7.82 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste generation: waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc.
	Disposal of the construction waste debris:	Construction waste will be generated from the building. It includes waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc. Construction debris will be used for base course preparation
Waste generation in the operation Phase:	**Dry waste:**	305 kg/day
	Wet waste:	444 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	4.71 kg/day
	Others if any:	NA

SEACAGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Collected & Disposed by local body (Swach)
	Wet waste:	Treated in OWC
	Hazardous waste:	To Authorized Vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	At Ground Level
	Area for the storage of waste & other material:	12 Sq.m.
	Area for machinery:	36 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14.75 Lakh
	O & M cost:	3.06 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	250 KVA-1 no. 150 KVA-1 no. DG set	HSD- 440 LIT. 300 LIT.	2	40	150 mm	350 DEG. C.

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	989.18 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	81
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	2.25 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	Cassia Fistula	Bahawa	07	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant.
2	Mangifera indica	Mango	07	Flowering and Fruit growing tree. Suitable for all types of soil. Medium logging to water tolerence.
3	Nyctanthes arbor-tristis	Parijatak	04	The flower is the official flower of the state of India.
4	Lagerstromia speciosa	Tamhan	07	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers.
5	Syzygium cumini	Jambul	04	Flowering evergreen tropical tree, slow growing species, long life, dense foliage provides shade and is grown for its enviornmental value.
6	Murraya koenigii	Curry leaves	07	Butterfly host plant
7	Bauhinia Racemosa	Apta	04	Flowering shrub with religious significance
8	Cochlospermum religiosum	Sonsawar	06	Buttercup tree. Fruit is a brown splits open to release the black seeds which are covered with woolly white hairs.
9	Michella champaca	Sonchaffa	04	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	Dalbergia sisoo	Sissoo	03	Fast growing medium to large hardy deciduous rosewood.
11	Azadirachta indica	Neem	07	Fast growing large tree, evergreen good for roadside plantation, draught resistant, shade giving tree in summer also.
12	Anthocephalus kadamba	Kadamba	03	Shady, large deciduous tree, fastgrowing graceful tree, ball shaped flowers.
13	Ailanthus excelsa	Maharukh	04	Softwood tree. one of the best tree used to trap Suspended Particulate Matter (SPM)

SEAC-AGENDA-0000000278

14	Phyllanthus emblica	Awala	08	Decidous tree fruit with edible fruit.
15	Ficus microcarpa	Nandruk	06	Shady tree, good for roadside plantation
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	40 kW
	DG set as Power back-up during construction phase	1 No. x 62.5 kVA
	During Operation phase (Connected load):	1534 kW
	During Operation phase (Demand load):	932 kW
	Transformer:	2 x 630 kVA
	DG set as Power back-up during operation phase:	1 no. x 250 kVA and 1 no. x 150 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of Energy Efficient Lighting and use of Energy generated Solar PV system for common area and solar hot water

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Energy Efficient Lighting and use of Energy generated Solar PV system for common area and solar hot water	14 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	28.60 Lakh
	O & M cost:	0.17 Lakh

51.Environmental Management plan Budgetary Allocation

SEAC-AGENDA-0000000278

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	-	5.00
2	Site Sanitation & Safety	-	5.00
3	Environmental Monitoring	-	10.00
4	Drinking water facility	-	5.00
5	Personnel Protective Equipment & Health Checks-Ups	-	5.00
6	Total	-	30.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water harvesting	-	7.5	0.3
2	Sewage Treatment Plant	-	20	7.82
3	Organic waste composting	-	14.75	3.06
4	Landscape & Tree Plantation	-	19.72	10.30
5	Energy Saving & Solar Water heating System	-	28.60	0.17
6	DG Set	-	24	0.7
7	Environmental Monitoring	-	-	5
8	Total	-	114.57	27.35

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:	NA

SEAC-AGENDA-0000000278

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	7318.87 Sq.m.
	Area per car:	Provided as per NBC Rules
	Area per car:	Provided as per NBC Rules
	Number of 2-Wheelers as approved by competent authority:	726
	Number of 4-Wheelers as approved by competent authority:	188 (Mechanical Parking -Lower Parking Floor)
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6 m driveway, 12 m internal road at Entrance
	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	B
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

SEAC AGENDA-00000000278

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP remained **absent**. The proposal was **deferred.**

DECISION OF SEAC

PP remained **absent**. The proposal was **deferred.**

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

SEAC-AGENDA-0000000278

89th SEAC-3 Day 01

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Proposed residential & commercial project "Shubh Shagun" at S.no. 28/4B, Kharadi, Pune by M/s. Shubh Housing.

Is a Violation Case: No

1.Name of Project	Shubh Shagun
2.Type of institution	Private
3.Name of Project Proponent	M/s. Shubh Housing
4.Name of Consultant	Building Environment india private limited
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	NA
8.Location of the project	S. No. 28/4B
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Anuj Agarwal
Room Number:	M2,13,14
Floor:	-
Building Name:	Mittal House
Road/Street Name:	Golf Course Road
Locality:	Yerwada
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area: 33888.32
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	9400
16.Deductions	810.3
17.Net Plot area	7301.48
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18759.73
	b) Non FSI area (sq. m.): 15128.59
	c) Total BUA area (sq. m.): 33888.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 18759.73
	Approved Non FSI area (sq. m.): 15128.59
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2885.70
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30.69
21.Estimated cost of the project	590000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	B1+B2+GP+14	42.75
2	Wing B	B1+B2+GP+14	42.75
3	Wing C	B1+B2+GP+14	42.75
4	Wing D	B1+B2+GP+14	42.75
5	Wing E	B1+B2+GP+14	42.75
6	Club house	G+1	-

23.Number of tenants and shops	Tenements -311 Nos. Shops- 17 Nos.
24.Number of expected residents / users	Total: 1720 Nos. (Residential: 1555 Nos. + Commercial: 165 Nos.)
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15 to 25 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	None
30.Details of the demolition with disposal (If applicable)	No

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	148.58
	Recycled water - Flushing (CMD):	73.28
	Recycled water - Gardening (CMD):	5.16
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	227.01
	Fire fighting - Underground water tank(CMD):	375.00
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	121.23
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	148.58
	Recycled water - Flushing (CMD):	73.28
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	221.85
	Fire fighting - Underground water tank(CMD):	375.00
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	126.39
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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 7 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	Attached as Annexure
	Quantity of recharge pits:	3
	Size of recharge pits :	2.0 m x 1.0 m x1.5 m
	Budgetary allocation (Capital cost) :	3 lakh
	Budgetary allocation (O & M cost) :	0.15 lakh
	Details of UGT tanks if any :	For Residential Domestic: - 230 m3 Fire : - 375.00 m3 Flushing : - 60.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	West to East direction
	Quantity of storm water:	582.6 m3/day
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	199.67
	STP technology:	MBBR
	Capacity of STP (CMD):	1 nos of 200 KLD capacity
	Location & area of the STP:	Near Buldg. A
	Budgetary allocation (Capital cost):	27.50 lakh
	Budgetary allocation (O & M cost):	9.33 lakh /year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total Excavation:13130.13 cum (Soil:1095.22 cum + debris:12034.91 cum)
	Disposal of the construction waste debris:	Top Soil used for landscaping and debris will be used for levelling & back filling. Excess debris will be disposed on authorized site of PMC or self-owned land.
Waste generation in the operation Phase:	**Dry waste:**	336 kg/day
	Wet waste:	483 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	20 kg/day
	Others if any:	E waste: 945 kg per year

SEAC AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Disposed through authorized agency
	Wet waste:	Wet waste will be treated in OWC & used as manure in landscape area
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Treated in OWC & used as manure in landscape area
	Others if any:	E waste will be collected & disposed through authorized agency
Area requirement:	**Location(s):**	Near Buldg A
	Area for the storage of waste & other material:	12 M2
	Area for machinery:	36 M2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14.75 Lakh
	O & M cost:	3.1 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		

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	773.74
	No of trees to be cut :	None
	Number of trees to be planted :	114
	List of proposed native trees :	Attached as Annexure
	Timeline for completion of plantation :	5

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	Melia azadirachta	Bakam neem	04	EVERGREEN TREE
2	Murraya exotica	Kamini	04	-EVERGREEN TREE
3	Mimosups elengii	Bakul	05	FRAGRANT FLOWERS OR LEAVES, - ATTRACTS BIRDS/BEES, - EVERGREEN TREE/CREATES SHADE
4	melina arorea	Shivan	04	EVERGREEN TREE
5	Aegle marmelos	Bel	04	EVERGREEN TREE
6	Bahunia racemosa	Apta	04	EVERGREEN TREE
7	Nyctanthus arbortristis	parijatak	04	EVERGREEN TREE
8	Putrnjiva Roxburghii	putrnjiva	04	EVERGREEN TREE
9	Azadirachta india	Neem	08	- FRAGRANT FLOWERS OR LEAVES, - PLANT FOR POOJA/EVERGREEN, - QUICK GROVING/INSECT REPELLENT
10	Erythrina Indica	Pangara	04	EVERGREEN TREE
11	Dalbergia sissoo	Shisav	08	EVERGREEN TREE
12	Bauhinia Blakeana	Kanchanraj	04	EVERGREEN TREE
13	Schleichera oleosa	Kusum	04	EVERGREEN TREE
14	Roystonia regia	Bottle palm	08	EVERGREEN TREE
15	Caryota urens	Fish tail palm	08	FRAGRANT FLOWERS OR LEAVES, - ATTRACTS BIRDS/BUTTERFLIES/BEES, - EVERGREEN TREE
45.Total quantity of plants on ground				

SEAC-AGENDA-0000000278

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	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	1 x 125 KVA
	During Operation phase (Connected load):	1569 KW
	During Operation phase (Demand load):	1064 KW
	Transformer:	2 x 630 KWA
	DG set as Power back-up during operation phase:	1 x 250 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Provision of Solar energy for outdoor lightening / street light, Provision of Solar water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar energy for outdoor lightening / street light	1.35 %
2	Auto timer logic controller	1.95%
3	Electronic V3F drive for Lift	1.54%
4	Solar water heater	18.32
5	Total energy saving	23.15 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	43.56 lakh
	O & M cost:	1.6 Lakh per year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Personal Protective Equipment's	Helmets, Ear Plugs, Mask, Hand gloves, Safety Shoes	9.0
2	Site Sanitation	Mobile Toilets, Cleaning facilities	5.0

SEACAGENDA-0000000278

3	Solid Waste	Dust Bins, Cleaning	5.0
4	Water Provision	Drinking water for workers & Water for dust suppression	11.0
5	Environment Monitoring	Air, Water , Noise, Soil testing	3.0
6	Health Checkup, First Aid facilities for Workers	-	3.0
7	Awareness & Training for workers	Environment, Safety awareness	2.0
8	Total	Total	38.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	3 Nos. of Recharge Pits	3.00	0.15
2	STP	1 x 200 KLD Capacity	27.50	9.33
3	Solid Waste Management	OWC	14.75	3.10
4	Landscape	114 Nos of Tree proposed	14.22	2.28
5	Energy Saving	Solar PV, Solar water heater	43.56	1.56
6	Environment Monitoring	Air, Water, Noise monitoring	--	5.0
7	TOTAL	TOTAL	103.03	21.42

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:	NA

SEAC-AGENDA-0000000278

Parking details:	Number and area of basement:	2 Nos of Basement, Total Basement Area: 5936 Sq.M.
	Number and area of podia:	NA
	Total Parking area:	13474.80
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	715
	Number of 4-Wheelers as approved by competent authority:	339
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

SEAC AGENDA-0000000278

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 9400 m2, FSI area of 18759.73m2, Non FSI area of 15128.59 m2 and total BUA of 33888.32 m2.

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

SEAC-AGENDA-10000000278

DECISION OF SEAC

During discussion following points emerged:

1. PP presented two different plans, one with 9.7 m road width and one with 6 m road width with 4 m wide OWC. The committee expressed displeasure over the discrepancy observed. The PP accepted the mistake and requested to forgive. The PP is directed to resubmit correct drawings and plans.

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Residential and Conventional Shopping

Is a Violation Case: No

1.Name of Project	Residential and Conventional Shopping
2.Type of institution	Private
3.Name of Project Proponent	Name: SHRI. DILIP SOLANKI
4.Name of Consultant	Bilwa Deo
5.Type of project	Residential and Conventional Shopping
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	NO
8.Location of the project	VILLAGE :-CHARHOLI (BK.)
9.Taluka	HAVELI.
10.Village	Charloi
Correspondence Name:	SHRI. DILIP SOLANKI
Room Number:	S. No. 498
Floor:	Ground
Building Name:	NA
Road/Street Name:	Alandi- Market road
Locality:	Charholi
City:	Pune
11.Whether in Corporation / Municipal / other area	YES
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area: 936129.9
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	28393.53
16.Deductions	1219.68
17.Net Plot area	27173.85
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 55740.15
	b) Non FSI area (sq. m.): 37872.24
	c) Total BUA area (sq. m.): 93612
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 55740.15
	Approved Non FSI area (sq. m.): 37872.24
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	4850.92
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18
21.Estimated cost of the project	2520000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	B+P+15	49 m
2	B	B+P+15	49 m
3	C	B+P+15	49 m
4	D	B+P+15	49 m
5	E	B+P+15	49 m
6	F	P+15	49 m

23.Number of tenants and shops	1304 No, Shop12 No,
24.Number of expected residents / users	6520 (Residents), 40(Commercial), =Total 6560 no
25.Tenant density per hectare	460.77/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)	Nearest fire station distance 12 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mtr
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	NA	NA	NA	NA

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	Source of water	PCMC
	Fresh water (CMD):	534.5
	Recycled water - Flushing (CMD):	405.0
	Recycled water - Gardening (CMD):	55
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	940
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	262.13
Wet season:	Source of water	PCMC
	Fresh water (CMD):	534.5
	Recycled water - Flushing (CMD):	405
	Recycled water - Gardening (CMD):	55
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	640
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	317.13
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	NA	534.5	534.5	NA	54	54	NA	489	489

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon : 30 meter,Pre monsoon : 75-80 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	9 Nos
	Size of recharge pits :	5 m x 2m depth 1.2m
	Budgetary allocation (Capital cost) :	4.43 Lacs
	Budgetary allocation (O & M cost) :	0.75 Lacs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	North to South East
	Quantity of storm water:	740.43 m3/hr
	Size of SWD:	450mm diameter RCC pie with slope 1:150
Sewage and Waste water	**Sewage generation in KLD:**	725 M3
	STP technology:	MBBR
	Capacity of STP (CMD):	725 M3
	Location & area of the STP:	South-East corner Plot
	Budgetary allocation (Capital cost):	1.45 Lacs
	Budgetary allocation (O & M cost):	29 lacs per year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation = 29999.28 cum , Filling in Plinth = 17307.28 cum ,Filling at Front Side = 2491.20 cum , Concrete =22650.06 ,cum , Steel = 2160 mt , Fly ash bricks = 10649.74 cum
	Disposal of the construction waste debris:	Excavation =10200.80, Concrete = 453, Steel =43.20, Fla ash ,Bricks =212.99
Waste generation in the operation Phase:	**Dry waste:**	1615 Kg
	Wet waste:	1956 Kg
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	36 Kg per day
	Others if any:	NA

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to SWACH
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	Na
	Biomedical waste (If applicable):	Na
	STP Sludge (Dry sludge):	STP sludge sent for converting in to compost
	Others if any:	Na
Area requirement:	**Location(s):**	As Per Drawing
	Area for the storage of waste & other material:	25m x 5m = 125 m2
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50 Lacs
	O & M cost:	14 Lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

41.Source of Fuel	NA
42.Mode of Transportation of fuel to site	NA

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	2718.5 Sq.mt.
	No of trees to be cut :	0
	Number of trees to be planted :	355 Nos
	List of proposed native trees :	List presented below
	Timeline for completion of plantation :	Before 1 year construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Prosopis cineraria	Shami	20	Hardy species. good for restoration of semi and areas. Drought resistant grows in very poor soil in semi arid areas.
2	Aegle marmelos	Bel	20	Aegle marmelos is native across the Indian subcontinent. It has a reputation in India for being able to grow in places that other trees cannot. It copes with a wide range of soil conditions (pH range 5- 10), is tolerant of water logging and has an unusually wide temperature tolerance (from-7°C to 48 °C). It requires a
3	Azadirachta Indica	Neem	20	Good for restoration of drier parts
4	Schleichera oleosa	Kusum	20	It is a larval host for butterflies Malayan, western centaur oakblue,
5	Cassia fistula	Bahava	20	It is a larval host for butterflies like
6	Butea monosperma	Palas	20	Used in afforestation of saline and butterflies.
7	Emblica officinalis	Awala	20	Plant with good regenerative capacity, sturdy. Good for restoration of forest clearing.
8	Bauhinia purpurea	Rakta-Kanchan	20	Leguminous, hardy species, drought resistant, good for plantation on land with less soil layers
9	Mimusops elengi	Bakul	20	Fruits are eaten by animals
10	Tamarindus indica	Chincha	20	Good for shade. Reduces temperatures. Fruits are favoured by wild animals.
11	Phonenix sylvestris	Palm- Shindi	20	Ripe fruits are eaten by many animals. this also helps in seed dispersal.
12	Madhuca Latifolia	Moha	20	Flowers attract many insects, bees.
13	Albizia lebbeck	Shirish	20	It is a larval host for butterflies common grass yellow. A fast growing nitrogen-fixing, heavy shade tree, recommended for reforestation and firewood

SEAC-AGENDA-0000000278

14	Mangifera Indica	Mango	20	Dominant in all kind of forets. Fruits are eaten by wild animals. It is a larval host
15	Ficus religiosa	Pimpal	20	Profusely fruiting trees attract a lot of fruit eating birds. it is a larval host for
16	Bombax ceiba	Kate sawar	20	The seedling do not stand transplantation well, and hence direct sowing in the fields is recommended. Stump planting also gives good results.
17	Butea monsperma	Palas	35	Used in afforestation of saline and
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	Koynel - Clerodendruminerme	0.50 m c/c	NA
2	Nirgudi - Vitexnegundo	0.50 m c/c	NA
3	Chitrak - PlumbagoZeylanica	0.50 m c/c	NA
4	Tarwad - Cassia auriculata	0.50 m c/c	NA
5	Kunti - Murraya Exotica	1.00m c/c	NA
6	Champa	1.50m c/c	NA
7	Ananta	1.00m c/c	NA
8	Jai-Jui	1.00m c/c	NA
9	Boganwel	0.50 m c/c	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 Kw
	DG set as Power back-up during construction phase	62.5 Kva
	During Operation phase (Connected load):	3987 Kw
	During Operation phase (Demand load):	2844 Kw
	Transformer:	5X630 KVa
	DG set as Power back-up during operation phase:	1X300 Kv a
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

SEACAGENDA-0000000278

1.LED are proposed for building Common area Viz. Lobby, Parking & Passages & Staircase, street light etc.
2. 50% of Street lights are on solar system.
3. 1% of Solar Photovoltaic generation on total maximum demand load.
4. Solar water heating is being proposed for hot water in one of the bath in flats qty.
5. As per MSEDCL requirements, we are planned to use high efficiency Transformer to reduce losses.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy (P.V. Panels)	0.58 %
2	Auto. Timer Logic Controller	0.91%
3	Electronic VVF drive for Lifts	1.43 %
4	Solar Hot Water heater(Solar Panel)	21.16%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	NA	725 CMD
OWC	NA	2000 KG PER DAY
PLantation	NA	355 NO OF PLANTS
Energy	NA	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	171. Lacs
	O & M cost:	6.38 Lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, air and Noise monitoring	4.5 Lacs
2	Water Environment	Water for Worker, Water Monitoring	1.5 Lacs
3	Land Environment	Site Sanitation	4.5 Lacs

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 waste water	STP	145	29
2	Rain Water Harvesting	Recharge Pit	4.43	0.75
3	Solid Waste Management	OWC	50	14
4	Green Development	Plantation	40.20	4.02
5	Energy Use	Timer logic controller, Electrical V3F Drive for Lift Solar Water heating	15.90	1.59
6	Renewable Energy	Solar PV	56	2.80
7	Environmental Monitoring	EMP Costing	MoEF and CC approved laboratory	MoEF and CC approved laboratory

SEAC-AGENDA-0000000278

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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	1, 7594.52 sq m
	Number and area of podia:	No
	Total Parking area:	19894.28 Sq m
	Area per car:	12.50 Sq m
	Area per car:	12.50 Sq m
	Number of 2-Wheelers as approved by competent authority:	2632 Nos (Covered)
	Number of 4-Wheelers as approved by competent authority:	660 .Nos (Covered)
	Public Transport:	Available near to side
	Width of all Internal roads (m):	6.00M AND 9.00M
	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	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA

SEACAGENDA-00000000278

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 28393.53 m2, FSI area of 55740.15 m2, Non FSI area of 37872.24m2 and total BUA of 93612 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000278

During discussion following points emerged:

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

2. PP to submit detailed disaster management plan.

3. PP to submit master layout superimposing all environmental parameters.

4. PP to submit details of storm water and sewage up to final disposal point.

5. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity, (c) Drainage NOC. (d) solid waste / e-waste management.

6. PP to submit revised RG plan indicating distance between the plants. PP to incorporate local native fruit bearing trees.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

89th SEAC-3 Day 01

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Amendment in earlier EC for proposed residential project Bramha Sky City at Survey No. 25 + 25 A, , Village-Dhanori, Tal.- Haveli , Pune by Vishnu Co-operative Housing Society Ltd.

Is a Violation Case: No

1.Name of Project	Bramha Sky City by M/s. Vishnu Co-operative Housing Society Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Vishnu Co-operative Housing Society Ltd.
4.Name of Consultant	Building Environment India Pvt. Ltd.
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC Letter No. SEAC-2212/CR-188/ TC-2 dated 10th November, 2014
8.Location of the project	Survey No. 25 + 25 A, , Village-Dhanori, Tal.- Haveli , Pune 411015
9.Taluka	Haveli
10.Village	Dhanori
Correspondence Name:	Shivani Agrawal -Chairman
Room Number:	250 - 251
Floor:	-
Building Name:	Bramha House
Road/Street Name:	MG road
Locality:	Camp
City:	Pune 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied to PMC for revised IOD
	IOD/IOA/Concession/Plan Approval Number: Applied to PMC for revised IOD
	Approved Built-up Area: 128294.25
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	No such scheme involved
15.Total Plot Area (sq. m.)	59500.0 Sq.M.
16.Deductions	13659.92 Sq.M.
17.Net Plot area	45840.08 Sq.M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** As per Earlier EC 2014 - 58348, Proposed Amendment in Earlier EC-64566.47
	b) Non FSI area (sq. m.): As per Earlier EC 2014 - 45951.32, Proposed Amendment in Earlier EC-63727.78
	c) Total BUA area (sq. m.): 128294.25
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** As per Earlier EC 2014 - 58348, Amendment required - 64566.47
	Approved Non FSI area (sq. m.): As per Earlier EC 2014 - 45951.32, Amendment required -63727.78
	Date of Approval: 15-04-2019
19.Total ground coverage (m2)	7336.28
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16 % of Net Plot Area
21.Estimated cost of the project	916500000.00

SEAC-AGENDA-0000000278

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	As per Earlier EC 2014	-	-
2	Building A To R (18 Nos.)	P + 11	35.13
3	Proposed Amendment in earlier EC	-	-
4	Building A To L (12 Nos.)	P + 11	35.20
5	Building T1 S1 S2 T2 N6 (5 Nos.)	UG+11FL	34.35
6	Building M1 M2 (2 Nos.)	B+LG+6FL	20.10
7	Building N1 (1 No.)	B+LG+7FL	22.95
8	Total- (20 Nos.)	-	-

23.Number of tenants and shops	As Per Earlier EC 2014 - 821 Nos., Proposed Amendment in earlier EC- 811 Nos.
24.Number of expected residents / users	As per Earlier EC 2014 - 4105 Nos., Proposed Amendment in Earlier EC- 4055 Nos.
25.Tenant density per hectare	689
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	7.5 m
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	No demolition involved

31.Production Details

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

32.Total Water Requirement

SEAC AGENDA-000000278

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	As per Earlier EC 2014 - 369, Proposed Amendment in Earlier EC- 387.75
	Recycled water - Flushing (CMD):	As per Earlier EC 2014 - 184.6, Proposed Amendment in Earlier EC- 182.48
	Recycled water - Gardening (CMD):	As per Earlier EC 2014 - 73, Proposed Amendment in Earlier EC- 32.36
	Swimming pool make up (Cum):	13.80
	Total Water Requirement (CMD) :	As per Earlier EC 2014 - 553, Proposed Amendment in Earlier EC- 602.58
	Fire fighting - Underground water tank(CMD):	Proposed Amendment in Earlier EC- 850
	Fire fighting - Overhead water tank(CMD):	Proposed Amendment in Earlier EC- 370
	Excess treated water	As per Earlier EC 2014 - 224.4, Proposed Amendment in Earlier EC- 285.95
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	As per Earlier EC 2014 - 369, Proposed Amendment in Earlier EC- 380.25
	Recycled water - Flushing (CMD):	As per Earlier EC 2014 - 184.6, Proposed Amendment in Earlier EC- 182.48
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	6.3
	Total Water Requirement (CMD) :	As per Earlier EC 2014 - 553, Proposed Amendment in Earlier EC- 562.73
	Fire fighting - Underground water tank(CMD):	Proposed Amendment in Earlier EC- 850
	Fire fighting - Overhead water tank(CMD):	Proposed Amendment in Earlier EC- 370
	Excess treated water	As per Earlier EC 2014 - 297.4 Proposed Amendment in Earlier EC- 318.31
Details of Swimming pool (If any)	Dimension of Swimming Pool: 1. Main Pool: 93 m2 x 1.5 m depth Kids Pool: 12 m 2 x 0.60 m	

33.Details of Total water consumed

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

SEAC AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	70-90 m (BGL)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8 nos.
	Size of recharge pits :	2m x 2m x 3m
	Budgetary allocation (Capital cost) :	6 Lakh
	Budgetary allocation (O & M cost) :	0.5 Lakh/year
	Details of UGT tanks if any :	Proposed Domestic tank – 200 CMD, Existing Domestic tank- 385 CMD
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: site is undulating with a little residence time for the water to percolate. The site is mainly discharging to the adjacent nala towards.
	Quantity of storm water:	3347 m3/hr
	Size of SWD:	900 mm
Sewage and Waste water	**Sewage generation in KLD:**	As per Earlier EC 2014 - 553, Proposed Amendment in Earlier EC- 501
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of 600 KLD
	Location & area of the STP:	Near building A
	Budgetary allocation (Capital cost):	175 lakh
	Budgetary allocation (O & M cost):	25 Lakh/ year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc.
	Disposal of the construction waste debris:	Construction waste will be generated from the building. It includes waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc. Construction debris will be used for base course preparation
Waste generation in the operation Phase:	**Dry waste:**	As per Earlier EC 2014 - 821 kg/day, Proposed Amendment in Earlier EC- 811 kg/day
	Wet waste:	As per Earlier EC 2014 - 1231.50 kg/day, Proposed Amendment in Earlier EC- 1216.50 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	49.88 kg/day
	Others if any:	NA

SEACAGENDA-0000009278

Mode of Disposal of waste:	**Dry waste:**	Handed over to Swach
	Wet waste:	Treated in OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Near building C
	Area for the storage of waste & other material:	375 m2
	Area for machinery:	67 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	13.60 Lakh
	O & M cost:	1.36 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	1 x 250	HSD	1 per each DG	4.28	0.1524	450
2	2 x 625	HSD	1 per each DG	5.01	0.254	450

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

SEAC-AGENDA-0000000278

1	HSD	HSD	HSD	1) 98.6 Lit/Hr for 625 kVA DG 2) 42.6 Lit/Hr for 250 kVA DG
41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development	**Total RG area :**	• RG area other than green belt - 8189.21 sq.m • RG area under green belt (Nala garden): 5474.15 sq.m • RG on the ground (Softscape+Hardscape): 14202.65 sq.m • on the Podium (Softscape+Hardscape) : 2560.52 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	Existing 200 Nos. + Proposed 373 Nos.
	List of proposed native trees :	Attached
	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	Acrus sapota	Chikku	14	Fruit bearing tree, attracts birds.
2	Syzygium cumini	Jam/Jambhul	14	Fruit bearing tree, attracts birds.
3	Mangifera indica	Mango	14	Fruit bearing tree, attracts birds.
4	Arthocarpus heterophyllus	Phanus	14	Fruit bearing tree
5	Cordia Dichotoma	Bhokar	14	Fruit bearing tree
6	Murraya paniculata	Kunti	14	Blooms throughout the year, flowers with excellent fragrance
7	Annona reticulata	Ramphal	14	Fruit bearing tree
8	Khaya grandis	Khaya	14	Fruit bearing tree, shady, deciduous
9	Tectona grandis	Saag	14	Deciduous, flowering tree
10	Mutingia calabura	Singapore Cherry	14	Fast growing,Medium size, fruits bearing, attracts birds
11	Nyctanthesarbor-tristis	Prajakta	14	Fragrant flowers
12	Saraca indica	Sita ashok	14	Evergreen tree with rounded crown, hardy tree
13	Anthocephallus cadamba	Kadamb	14	Shady, large tree, ball shaped flowers
14	Grewia tiliaefolia	Dhaman	14	Deciduous, drought resistant
15	Cassia fistula	Bahawa	14	Medium size deciduous tree Grows in less soil or murum. Full of yellow flowers during summer season.
16	Lagerstromia flos - reginae	Lagerstromia	14	Medium size, grows in dry / arid climate.
17	Michelia champaca	Son Chafa	14	Medium sized evergreen tree, fragrant yellow flowers

SEAC-AGENDA-0000000278

18	Ailanthus excelsa	Maharukh	14	Deciduous, quick growing, shady.
19	Butea monosperma	Palas	14	Used in forestation of saline & water logged regions
20	Albezzia lebbeck	Shirish	14	Quick growing,hardy, good soil binder, drought tolerant
21	Bauhinia racemosa	Apta	14	Deciduous, drought resistant
22	Cordia	Cordia	14	Fragrant flowers
23	Azadirachta indica	Neem	13	Medicinal properties, quick growing, good air purifier
24	Pongamia pinnata	Karanj	13	It is larval host for butterflies. Nitorgen fixing plants.
25	AcrusPhyllanthus emblica sapota	Amla	13	Medicinal properties
26	Psidium gujava	Peru	13	Fruit bearing tree, attracts birds.
27	Bauhinia Purpurea	Kanchan	13	Grows in less soil,drought resistant
28	Total	-	373	-
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	Thevetia Nerifolia	0.9 m	121.65
2	Stachytarpheta	0.45	40.50
3	Plumbago zeylanica	0.45	40.50
4	Acorus calamus	0.30	20.28
5	Aloe vera	0.30	20.28
6	Ocimum sanctum	0.30	20.28
7	Nerium oleander	0.75	81.09
8	Hibiscus rosa sinensis	0.60	60.82

47.Energy

SEAC-AGENDA-0000000278

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	125 kW
	DG set as Power back-up during construction phase	1 x 125 kVA
	During Operation phase (Connected load):	As per Earlier EC 2014 - 5297 kW, Proposed Amendment in Earlier EC- 5649.8 kW
	During Operation phase (Demand load):	As per Earlier EC 2014 - 5493 kW, Proposed Amendment in Earlier EC- 2709.98 kW
	Transformer:	As per Earlier EC 2014 -1250 x 4 and 1 x 500 kVA Proposed Amendment in Earlier EC- 5 x 630 kVA
	DG set as Power back-up during operation phase:	As per Earlier EC 2014 - 2 x 630 kVA, Proposed Amendment in Earlier EC- 2 x 625 KVA and 1 x 250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Auto Timer control for external & Common lighting
- Solar powered water heating.
- Electronic V3F Drives for Elevators
- Solar PV Panel power for common area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	14850 kWH / Anum (i.e 0.5%)
2	Timer Logic Controller	52385 kWH / Anum (i.e 1.76%)
3	Electronic V3F drive	27229 kWH / Anum(i.e 0.92%)
4	Solar Water Heater	487200 kWH / Anum (i.e 16.39%)
5	Total	Total – 581664 kWH/Annum % of Saving- 19.56 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
OWC, DG set, STP	OWC, STP,DG Set	OWC, STP,DG Set

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	67 Lakhs
	O & M cost:	2.75 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	Personnel Protective Equipment	-	7.22

SEAC-AGENDA-000000278

2	Site Sanitation Facility	-	6.00
3	Drinking water facility, water sprinkling	-	48.00
4	Solid waste management	-	17.33
5	Safety railing, platform, ladder, hoist, cranes etc.	-	72.22
6	House keeping	-	2.89
7	Health Check	-	5.78
8	Environmental Monitoring	-	10.00
9	Total Cost	-	169.44

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	S.T.P	-	175	25
2	Rain Water harvesting	-	6	0.50
3	Solar lights, Energy Saving	-	67	2.75
4	Gardening	-	107	21.41
5	Solid waste management	-	13.60	1.36
6	Environmental Monitoring	-	0	6.00
7	Swimming Pool	-	28.8	1.44
8	Basement Ventilation	-	32.22	3.5
9	Total	-	429.62	61.96

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:	NA

SEAC-AGENDA-0000000278

Parking details:	**Number and area of basement:**	As per Earlier EC 2014 - 14488.37 Sq.M., Proposed Amendment in Earlier EC- 37696.60 Sq.M.
	Number and area of podia:	1 no.5806.54 Sq.M.
	Total Parking area:	As per Earlier EC 2014 - 20294.91 Sq.M., Proposed Amendment in Earlier EC- 37696.60 Sq.M.
	Area per car:	25.71 Sq.M., 35.96 Sq.M.,41 Sq.M.
	Area per car:	25.71 Sq.M., 35.96 Sq.M.,41 Sq.M.
	Number of 2-Wheelers as approved by competent authority:	As per Earlier EC 2014 - 1642 , Proposed Amendment in Earlier EC-1722
	Number of 4-Wheelers as approved by competent authority:	As per Earlier EC 2014 - 821 Nos., Proposed Amendment in Earlier EC-1092 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.0 to 9.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B
	Court cases pending if any	NA
	Other Relevant Informations	PP had obtained Earlier EC for residential buildings vide EC letter No. SEAC-2212/CR-188/ TC-2 dated 10.11.2014 for Built up area:1,04,299.32 Sq.M. (FSI-58,348 Sq.M. and Non-FSI-45,951.32 Sq.M.) comprises of 18 nos. buildings (P+11 Floors) PP has constructed only 12 nos. buildings (Bldgs. A to L) and in operation out of 18 nos of buildings as per earlier EC on site till date and constructed built up area: 68,632.38 Sq.M. (FSI– 37,271.93 Sq.M., Non FSI– 31,360.45 Sq.M.) Now, PP has change the building configuration for remaining 6 nos. of building (M,N,O,P,Q,R) (P+11) as per earlier EC and proposed to construct 8 nos. of Buildings (Bldgs. S1, T1, T2, S2, M1, M2, N1 and N6) having proposed built up area 59,661.87 Sq.M. (FSI: 27,294.54 Sq.M. + Non FSI: 32,367.33 Sq.M.) Request for amendment in Constructed Bldg. 12 nos. and Proposed Bldg. 8 Nos. Total 20 nos. of buildings. Total Built up area Constructed Bldgs.= 68,632.38 Sq.m. And Proposed 59,661.87 Sq.M. = Total BUA 1,28,294.25 Sq.M. (FSI: 64,566.47 Sq.M. + Non FSI: 63,727.78 Sq.M.)
	Have you previously submitted Application online on MOEF Website.	No

SEAC-AGENDA-0000000278

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 59500 m2, FSI area of 64566.47 m2, Non FSI area of 63727.78 m2 and total BUA of 128294.25 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000278

During discussion following points emerged:

1. PP to revise fire tender movement plan showing the connecting points to fire tender movement for existing buildings. The drive way should be uniformly 6 m wide and 1.5 m for services.

2. No UGT shall be located below the drive way of the proposed building. PP to submit cross sections at 4 different places.

3. PP to revise parking layout plan for all three levels by removing all dependent parking.

4. PP to submit parking statement showing total number of parking required and proposed as per DCR with area per car as per norms.

5. PP to submit integrated plan showing existing and proposed movement of traffic.

6. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

7. PP to submit indemnity bond.

8. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply NOC with quantity, (c) Drainage NOC. (d) Solid waste / e-waste management.

9. PP to submit UGT sections.

10. PP to submit list of 317 trees as per Garden NOC. PP to submit survival report of existing trees and plantation plan.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

89th SEAC-3 Day 01

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Proposed amendment in Environment clearance obtained vide letter no. SEAC-2010/CR.669/TC.2 dated 20/01/2012 for proposed residential project “Windermere” located at Koregaon Park, Pune.

Is a Violation Case: No

1.Name of Project	Windermere
2.Type of institution	Private
3.Name of Project Proponent	Vascon Engineers Ltd.
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed project is an amendment in the previous EC obtained vide letter number SEAC-2010/CR.669/TC.2 dated 20/01/2012
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental clearance has been obtained vide letter number SEAC-2010/CR.669/TC.2 dated 20/01/2012
8.Location of the project	331, Sangamwadi, T.P. Scheme, North Main road, Koregaon Park, Pune
9.Taluka	Haveli
10.Village	Vadgaonsheri
Correspondence Name:	Sumitra Joshi
Room Number:	-
Floor:	-
Building Name:	Vascon Weikfield Chamber
Road/Street Name:	Pune Nagar road
Locality:	Viman Nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Revised layout plan has been received vide plan approval number CC/2952/17/ dated 06/02/2018.
	IOD/IOA/Concession/Plan Approval Number: Revised layout plan has been received vide plan approval number CC/2952/17/ dated 06/02/2018.
	Approved Built-up Area: 54139.29
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Revised layout plan has been received vide plan approval number CC/2952/17/ dated 06/02/2018.
15.Total Plot Area (sq. m.)	19191.63
16.Deductions	2334.97
17.Net Plot area	16277.40
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26388.16
	b) Non FSI area (sq. m.): 27751.13
	c) Total BUA area (sq. m.): 54139.29
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 26388.16
	Approved Non FSI area (sq. m.): 27751.13
	Date of Approval: 06-02-2018
19.Total ground coverage (m2)	2404.68

SEAC-AGENDA-0000000278

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	14.77
21.Estimated cost of the project	202800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential Building - Tower I	B1+22	69.80
2	Residential Building - Tower II	B1+22	69.80
3	Residential Bungalows - 1 to 4	B+GR+2	10.05

23.Number of tenants and shops	Tenants - 80
24.Number of expected residents / users	Total : 404 (2 Residential Buildings Tower I + Tower II : 380 and 4 Residential Bungalows: 24)
25.Tenant density per hectare	212
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5-9m
29.Existing structure (s) if any	Tower I and Tower II completed as per previous EC for which completion certificates have been obtained vide CC no. OCC/1244/18 dated 29/12/2018 and OCC/1851/17 dated 23/03/2018 respectively.
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

SEAC-AGENDA-000000278

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	36
	Recycled water - Flushing (CMD):	18
	Recycled water - Gardening (CMD):	25
	Swimming pool make up (Cum):	1.5
	Total Water Requirement (CMD) :	80.5
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	7
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	36
	Recycled water - Flushing (CMD):	18
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	1.5
	Total Water Requirement (CMD) :	55.5
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	32
Details of Swimming pool (If any)	Swimming pool of capacity 200 m3	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	-	80.5	80.5	-	30.5	30.5	-	50	50

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5m to 5m
	Size and no of RWH tank(s) and Quantity:	6 no. of recharging pits with size 2.5m X 2.5m X 2.5m to be provided
	Location of the RWH tank(s):	Uniformly distributed across the periphery of the project
	Quantity of recharge pits:	85.20 m3/day
	Size of recharge pits :	2.5 X 2.5 X 2.5 (m)
	Budgetary allocation (Capital cost) :	550000
	Budgetary allocation (O & M cost) :	30000
	Details of UGT tanks if any :	Capacity of UGT 365.4 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per contour from North to South
	Quantity of storm water:	9196.5 m3/year
	Size of SWD:	200 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	50
	STP technology:	MBBR
	Capacity of STP (CMD):	1 unit of 60KLD
	Location & area of the STP:	Towards East corner of Tower II; Area- 105 m2
	Budgetary allocation (Capital cost):	1852000
	Budgetary allocation (O & M cost):	175000
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:**	71 kg/day
	Wet waste:	116 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	23 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Will be segregated and handed over to authorized recyclers
	Wet waste:	Organic waste composter machine of capacity 110 to 125 kg/day
	Hazardous waste:	Through authorized MPCB collection agency
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as a manure for gardening after treatment
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	39.035 m2
	Area for machinery:	17.70 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	525000
	O & M cost:	75000

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	DG OIl	Schedule IV, Item no.20	Litres	As on generation	As on generation	As on generation	Used oil will be handed over to the authorized collection agency for disposal

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	750 KVA X 2 no.	High Speed Diesel	2	3	0.2	520 °C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	High speed Diesel	-	165 lph	165 lph
41.Source of Fuel		Local authorized vendors		
42.Mode of Transportation of fuel to site		Local authorized vendors		

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	4146.21 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	64
	List of proposed native trees :	64
	Timeline for completion of plantation :	March 2023

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops elengi	Bakul	6	Shady tree, small white fragrant flowers
2	Cassia fistula	Bahava	8	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
3	Lagerstroemia flos-reginea	Taman	24	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
4	Plumeria Alba	Champaca	6	Medium sized evergreen tree, fragrant white flowers, Butterfly host plant
5	Michelia champaca	Sonchafa	20	Large evergreen tree, fragrant flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000278

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	From existing development
	DG set as Power back-up during construction phase	125KVA
	During Operation phase (Connected load):	2379 KW
	During Operation phase (Demand load):	1134 KW
	Transformer:	2 X 630 KVA
	DG set as Power back-up during operation phase:	750 KVA X 2 no. of DG sets
	Fuel used:	High speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Energy saved using Building solar PV system = 60750 units/year
2. Energy saved using solar water heater = 53010 units/year
3. Energy saved using LEDs for parking lights + common area lights + external lights = 890410.2 units/year

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Savings due to LED lighting for Common area	63.08
2	Savings due to LED lighting for Parking area	82.5
3	Savings due to LED lighting for External Area	79.37
4	Savings due to Solar water heater throughout the year	53010 units
5	Savings due to Solar PV installed at terrace of T-I and T-2	60750 units

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Sewage treatment plant (MBBR)- Total capacity 60 m3/day	-
Biodegradable waste	-	Organic waste composter

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5622795.8 for solar (PV+water heater)
	O & M cost:	425000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC AGENDA 000000000278

1	Site safety	Safety helmet, jacket, fall arrester, Nylon rope etc.	0.8
2	Site Sanitation	Cleaning material for labor, toilet, sweeper charges etc.	3.5
3	Disinfection & health checkup	Doctor visit charges, first Aid facility health camp etc.	1.17
4	Environment Monitoring	Ambient Air, Water, Noise, Soil Monitoring	0.6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	Civil and Equipment Cost along with Operation and Maintenance Cost	18.52	1.75
2	Rain water Harvesting	Ground Water Recharge with the help of recharge pits	5.50	0.30
3	Solid waste management	Solid Waste Management	5.25	0.75
4	Greenbelt development	Gardening	86.43	5.00
5	Solar PV system	-	26.13	1.75
6	Solar water heater	-	30.10	2.50
7	Storm water development	Storm Water Management	3.50	0.50
8	Environmental monitoring	Ambient Air, Water, Noise, Soil Monitoring	-	0.60
9	Safety awareness training	-	5.00	-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

SEAC-AGENDA-0000000278

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	13431.11 m2
	Area per car:	25 sq.m. for open parking and 30 sq.m. for closed parking
	Area per car:	25 sq.m. for open parking and 30 sq.m. for closed parking
	Number of 2-Wheelers as approved by competent authority:	169
	Number of 4-Wheelers as approved by competent authority:	253
	Public Transport:	NA
	Width of all Internal roads (m):	6-18m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	-
	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	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

SEAC AGENDA-00000000278

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP remained **absent.** The proposal was **deferred.**

DECISION OF SEAC

PP remained **absent.** The proposal was **deferred.**

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

SEAC-AGENDA-0000000278

SEAC Meeting number: 89 **Meeting Date** June 11, 2019

Subject: Environment Clearance for Proposed residential & commercial project "Ganesh Siddhi" at Gat No. 967 to 970& 985 to 988, Chikhli, Pimpri Chinchwad by M/s. Ganesh Construction

Is a Violation Case: No

1.Name of Project	Ganesh Siddhi
2.Type of institution	Private
3.Name of Project Proponent	M/s. Ganesh Construction
4.Name of Consultant	Building Environment India private limited
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	Gat No. 967 to 970& 985 to 988
9.Taluka	Haveli
10.Village	Chikhali
Correspondence Name:	Mr. Ganesh Satish Patil
Room Number:	13/1,13/5, A Wing
Floor:	1st Floor
Building Name:	Ganesh Height
Road/Street Name:	Ganesh Nagar
Locality:	Dapodi, Pimpri Chinchwad (M crop)
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area: 49674.28
13.Note on the initiated work (If applicable)	Project proponent has initiated construction activity & constructed built up area 16151.30 sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	17292.0 Sq.M
16.Deductions	5070.14 Sq.M
17.Net Plot area	10999.50
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22199.32
	b) Non FSI area (sq. m.): 27474.96
	c) Total BUA area (sq. m.): 49674.28
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 22199.32
	Approved Non FSI area (sq. m.): 27474.96
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2964.26
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26.94
21.Estimated cost of the project	849907100

22.Number of buildings & its configuration

SEAC-AGENDA-0000000278

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	GP+UP+10	34.90
2	Wing B	GP+UP+10	34.90
3	Wing B1	GP+UP+10	34.90
4	Wing B2	GP+UP+10	34.90
5	Wing C1	P+5	17.95
6	Wing C2	P+5	17.95
7	Wing D	GP+UP+10	35.50
8	Club House G+1	-	-

23.Number of tenants and shops	Tenements -460 Nos. (Residential:420 No's & MHADA :40 No's) Shops-59 Nos.
24.Number of expected residents / users	Total: 2655 Nos. (Residential: 2100, Commercial: 355, MHADA: 200 Nos)
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 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	none
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000278

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	102
	Recycled water - Flushing (CMD):	109
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	218
	Fire fighting - Underground water tank(CMD):	375
	Fire fighting - Overhead water tank(CMD):	110
	Excess treated water	148.26
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	102
	Recycled water - Flushing (CMD):	109
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	218
	Fire fighting - Underground water tank(CMD):	375
	Fire fighting - Overhead water tank(CMD):	110
	Excess treated water	155.63
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

SEAC-AGENDA-0000000278

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4 to 6 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8
	Size of recharge pits :	Size of recharge pits with bores: 2.0 m x 2.0 m x 2.0 m
	Budgetary allocation (Capital cost) :	16 lakh
	Budgetary allocation (O & M cost) :	1.6 lakh
	Details of UGT tanks if any :	For Residential Domestic: - 274 m3 Fire : - 375 m3 Flushing : - 110 m3
35.Storm water drainage	**Natural water drainage pattern:**	West to East Direction
	Quantity of storm water:	5600 m3/day
	Size of SWD:	450
Sewage and Waste water	**Sewage generation in KLD:**	295 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 x 280 KLD for residential & Commercial Bldg., 1 x 30KLD STP for MHADA Bldg.
	Location & area of the STP:	Near Bldg. B2
	Budgetary allocation (Capital cost):	40.9 Lakh
	Budgetary allocation (O & M cost):	13.83 Lakh/yr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total Excavation: 10855.75 cum (Soil: 1628.42 cum + Debris: 9227.33 cum)
	Disposal of the construction waste debris:	Top Soil used for landscaping and debris will be used for levelling & back filling. Excess debris will be disposed on authorized site of PCMC or self-owned land.
Waste generation in the operation Phase:	**Dry waste:**	513 kg/day
	Wet waste:	726 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Total 31 kg/day (28 kg/day for 280 KLD STP & 3 Kg/day for 30 KLD STP)
	Others if any:	E waste: 1505 kg per year

SEAC-AGENDA-0000000278

Mode of Disposal of waste:	**Dry waste:**	Disposed through authorized agency
	Wet waste:	Wet waste will be treated in OWC & used as manure in landscape area
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Treated in OWC & used as manure in landscape area
	Others if any:	E waste will be collected & disposed through authorized agency
Area requirement:	**Location(s):**	2 Nos. of OWC proposed located at near Open space 2
	Area for the storage of waste & other material:	OWC Area: 69.5 m2
	Area for machinery:	Machinery area: 26 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30.00 Lakh
	O & M cost:	6.3 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		

SEAC-AGENDA-0000000278

43.Green Belt Development	**Total RG area :**	1608.38 Sq.m
	No of trees to be cut :	None
	Number of trees to be planted :	216 Nos
	List of proposed native trees :	Attached
	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	Dalbergia Shiso	Sissoo	4	Fast growing medium to large hardy deciduous rosewood.
2	Azadirachta Indica	Neem	8	Fast growing large tree, evergreen good for roadside plantation, draught resistant, shade giving tree.
3	Mangifera Indica	Mango	3	Flowering and Fruit growing tree. Suitable for all types of soil. Medium logging to water tolerence.
4	Cassia Fistula	Bahawa	4	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant.
5	Ailanthus Excelsa	Maharukh	8	Softwood tree. one of the best tree used to trap Suspended Particulate Matter (SPM)
6	Nyctanthes Arbor-Trstis	Parijatak	8	Small deciduous fast growing tree, beautiful flowrers.
7	Bauhinia Variegata	Mountain Ebony	4	Flowering plant, deciduous, beautiful tree among all indian trees, rich and stimulating perfume.
8	Michella Champaca	Sonchaffa	6	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
9	Anthocephalus Kadamba	Kadamba	4	Shady, large deciduous tree, fast-growing graceful tree, ball shaped flowers.
10	Lagerstromia Speciosa	Tamhan	4	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers.
11	Ficus Microcarpa	Nandruk	8	Shady tree, good for roadside plantation
12	Syzygium Cumini	Jambul	4	Flowering evergreen tropical tree, slow growing species, long life, dense foliage provides shade and is grown for its enviornmental value.
13	Murraya Koenigii	Curry Leaves	4	Butterfly host plant

SEAC-AGENDA-0000000278

14	Phyllanthus Emblica	Awala	4	Decidous tree fruit with edible fruit.
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)	15 Kw
	DG set as Power back-up during construction phase	1 x 30 KVA
	During Operation phase (Connected load):	2033.17 Kw
	During Operation phase (Demand load):	1225.99 KW
	Transformer:	2 x 630 KWA
	DG set as Power back-up during operation phase:	1 x 180 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Provision of Solar energy for outdoor lightening / street light, Provision of Solar water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar energy for outdoor lightening / street light & Solar panel / water heater:	18.16

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:**	18.74 lakh
	O & M cost:	0.93 Lakh / year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

SEAC-AGENDA-0000000278

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Personal Protective Equipment's	Helmets, Ear Plugs, Mask, Hand gloves, Safety Shoes	10.0
2	Site Sanitation	Mobile Toilets, Cleaning facilities	5.0
3	Solid Waste	Dust Bins, Cleaning	5.0
4	Water Provision	Drinking water for workers & Water for dust suppression	12.0
5	Environment Monitoring	Air, Water , Noise, Soil testing	3.0
6	Health Checkup, First Aid facilities for Workers	-	4.0
7	Awareness & Training for workers	Environment, Safety awareness	2.0
8	Total	-	41.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	8 Nos. of Recharge Pits	16	1.6
2	STP	1 x 280 KLD & 1x 30 KLD Capacity	40.9	13.83
3	Solid Waste Management	OWC	30.0	6.3
4	Landscape	153 Nos of Tree proposed	10.0	0.60
5	Energy Saving	Solar PV, Solar water heater,	18.74	0.93
6	Environment Monitoring	Air, Water, Noise monitoring	-	5.0
7	DMP COST	Fire Fighting measures,Well-equipped Control Room with Disaster Management Kit ,Diesel Pump for emergency,Disaster Management training to Residents and Security Staff, Mock Exercise, Alternate source of power supply / D.G sets,Lightning Arrestor	110.11	14.90
8	TOTAL	TOTAL	225.75	43.16

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

SEAC-AGENDA-0000000278

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:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	9781.86 Sq.M
	Area per car:	30 Sq.M
	Area per car:	30 Sq.M
	Number of 2-Wheelers as approved by competent authority:	1010
	Number of 4-Wheelers as approved by competent authority:	260
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	NA
	Other Relevant Informations	NA

SEACAGENDA-00000000278

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

SEAC-AGENDA-0000000278

Brief information of the project by SEAC

PP submitted their application for modernisation of earlier Environmental clearance for total plot area of 16492 m2, FSI area of 22257.91 m2, Non FSI area of 27457.39 m2 and total BUA of 49715.91 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit survival report of existing trees.

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

Specific Conditions by SEAC:

1) PP to submit survival report of existing trees.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000278

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed Residential Project at S. No. 41/2,(P) 62/2(P), Tathawade, Pune by M/S. Rising Associates.

Is a Violation Case: No

1.Name of Project	Proposed Residential Project at S. No. 41/2,(P) 62/2(P), Tathawade, Pune by M/S. Rising Associates.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vineet Goyal
4.Name of Consultant	Vke-environmental LLP
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 41/2,(P) 62/2(P)
9.Taluka	Mulshi
10.Village	Tathawade
Correspondence Name:	Mr. Vineet Goyal
Room Number:	Office No. A-102
Floor:	-
Building Name:	ICC Trade Tower
Road/Street Name:	Senapati Bapat Road
Locality:	Senapati Bapat Road
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	Under Process
	IOD/IOA/Concession/Plan Approval Number: 00
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	16459.78
16.Deductions	1650.00
17.Net Plot area	14600.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25297.86
	b) Non FSI area (sq. m.): 32255.04
	c) Total BUA area (sq. m.): 57552
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 27-12-2018
19.Total ground coverage (m2)	4213.13
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.86 % on net plot area
21.Estimated cost of the project	1161000000

22.Number of buildings & its configuration

SEAC-AGENDA-000000279

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower A	2P+13	44.95
2	Tower B	2P+13	44.95
3	Tower C	B+2P+13 Floor	44.95
4	Tower D	B+2P+13 Floor	44.95
5	Tower E	B+2P+13 Floor	44.95
6	Tower F	B+2P+13 Floor	44.95
7	Tower G	B+2P+13 Floor	44.95
8	Tower H	B+2P+13 Floor	44.95
9	Tower I	B+2P+13 Floor	44.95
10	MHADA Building	P+5	17.25

23.Number of tenants and shops	Residential: 498 tenements
24.Number of expected residents / users	Residential: 2490 tenants
25.Tenant density per hectare	290/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m wide DP road from the nearest fire station
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m turning radius
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

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	229
	Recycled water - Flushing (CMD):	112
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	361
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	235
	Excess treated water	161
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	229
	Recycled water - Flushing (CMD):	112
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	341
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	235
	Excess treated water	181
Details of Swimming pool (If any)	Swimming Pool of size 6 m*13 m is proposed.	

33.Details of Total water consumed

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

SEAC-AGENDA-000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon water level 7 m bgl Post Monsoon water level 9m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 Nos.
	Size of recharge pits :	1.00 m x 1.00 m x 1.90 m depth below storm water inlet with bore well of 60.00 m
	Budgetary allocation (Capital cost) :	3,00,000/-
	Budgetary allocation (O & M cost) :	30,000/-
	Details of UGT tanks if any :	344 CMD for Domestic Water Tank 450 CMD for Fire Water Tank 128 CMD for Flushing Water Tank
35.Storm water drainage	**Natural water drainage pattern:**	The storm water drainage will be designed according to contours.
	Quantity of storm water:	1181.45 cum/hr
	Size of SWD:	600 mm dia.
Sewage and Waste water	**Sewage generation in KLD:**	308 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Total Capacity of STPs- 336 KLD (One STP OF 310 kld for residential and Second STP of 26 kld capacity for MHADA)
	Location & area of the STP:	On ground and Area required = 184 sq.m
	Budgetary allocation (Capital cost):	91,00,000/-
	Budgetary allocation (O & M cost):	8,40,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 kg/day (Dry + Wet)
	Disposal of the construction waste debris:	The entire construction waste will be used within the site for levelling purposes and base course preparation of internal approach roads.
Waste generation in the operation Phase:	**Dry waste:**	498 kg/day
	Wet waste:	747 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	123 kgs/day
	Others if any:	E-Waste : 1241 kg/year

SEAC-AGENDA-000000279

Mode of Disposal of waste:	**Dry waste:**	Will be Handed Over to authorized vendor
	Wet waste:	Will be treated in onsite organic waste converter (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	After treatment, Sludge will be used as manure.
	Others if any:	NA
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	13.5 sqm.
	Area for machinery:	54 sqm.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20,75,000/-
	O & M cost:	4,44,096/-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000279

43.Green Belt Development	**Total RG area :**	1469.42 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	240
	List of proposed native trees :	Referred below
	Timeline for completion of plantation :	Till the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Amaltas	9	Medium sized deciduous tree. A beautiful tree for small gardens, parks and along medium and small roads excellent yellow inflorescence
2	Millingtonia hortensis	Akash neem	10	Tall evergreen tree can planted to screen facades due to good height , attract birds due to its fragrant flowers
3	Mimusops elengi	Bakul	11	Medium sized slow-growing evergreen tree with dense foliage. The flowers are a key source for some of the nesting space for birds
4	Anthocephalus kadamba	Kadamba	21	Large sized deciduous tree strong branching pattern. The fragrant orange flowers attract pollinators / butterflies
5	Albizia lebbeck	Siris	19	Large sized deciduous tree. The tree has a graceful appearance and beautiful foliage
6	Bauhinia vartiegata	Kachnar	10	Small sized deciduous tree. Round canopy. Suitable for roadside, group planting or as specimen tree in large lawns due to its flowering
7	Elaeocarpus sphaericus	Rudraksh	11	Large evergreen broad-leaved tree. Seeds are of religious value equivalent to semi-precious stones- used for organic jeweler/necklace
8	Putranjiva roxburghii	Putranjiva	12	Medium sized evergreen tree. A good avenue tree for medium-sized road. Also suitable for growing in gardens and parks in rows for their globular, shining crown.
9	Pongamia pinnata	Karanj	10	Tree is well suited to intense heat and sunlight and its network of lateral route makes it drought tolerant

SEAC-AGENDA-0000000279

10	Syzigium jambolana	Jambhul	05	It is a evergreen tree growing to 15-25m tall tree. dense foliage & edible violet fruits invite lots of birds. Not preferred along roads or in parking lots , due falling fruits & bird droppings
11	Aegle marmelos	Bel	10	It is a evergreen tree growing with graceful appearance. Fruits are edible used in various medicinal purpose. leaves are of religious significance
12	Azadirachta indica	Neem	33	Neem is a fast-growing tree that can reach a height of 15-20 metres. It is deciduous tree and the branches are wide and spreading. Good for air purification. Leaves have medicinal use
13	Michelia champaca	Sonchafa	15	Popular for its fragrant yellow flowers, large evergreen tree is handsome in appearance grows uprights & suitable for planting anywhere. All parts of plants have medicinal value & used in Ayurveda. Also, religious significance. Flowering: from end of summers till monsoons
14	Swietenia macrophylla	Mahogany	05	Swietenia mahogany is a medium-sized semi-evergreen tree growing. Very rare due to over-harvesting. It is regarded as the world's finest timber wood. It is grown as an ornamental tree in various parts of India
15	Mangifera indica	Mango	20	Large Evergreen tree with dense dome shaped crown , fruit bearing tree, wood is extensively used for low cost furniture.
16	Manikara zopata	Chikoo	19	Medium sized deciduous tree. It is suitable for planting along the road . Fruit Bearing tree.
17	Artocarpus heterophyllus	Fanas	20	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	NA	NA	NA

47.Energy

SEAC-AGENDA-0000002079

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	2 x 125 KVA
	During Operation phase (Connected load):	3064.45 kW
	During Operation phase (Demand load):	1322.43 kW
	Transformer:	3 nos. x 630 KVA + 1 nos. x 200 KVA
	DG set as Power back-up during operation phase:	2 DG set of 320 KVA for BLDG A to I and 1 DG set of 62.5 KVA for MHADA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total Energy Saving : i.e. (64.43 % Savings)
Energy saving due to solar :i.e. (82.19 % Savings)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Common Area, Parking Area, External Area, Building Solar PV system, Energy Saving using VFD, Solar HOT Water	64.43 %

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:**	1,29,12,000/-
	O & M cost:	10,78,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	15.30
2	Land	Labour Camp toilets & sanitation	4.80

SEAC-AGENDA-0000000279

3	Health and Safety	Labour Safety Equipment and training	4.00
4	Facility	Disinfection and Health Check-ups	0.51
5	Environment Management	Environmental Monitoring	1.85
6	Environment Management Cell	Environment Management Cell	1.75

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	MBBR Technology	91.00	8.40
2	Solid Waste Management	OWC	20.75	4.44
3	Landscaping	Development and Maintenance	406.61	3.44
4	Rain Water Harvesting	Recharge pits with bore well	3.00	0.30
5	Energy Saving	Energy Saving	129.12	10.78
6	Environmental Monitoring Plan	Environmental Monitoring Plan	-	1.82
7	Lightning Arrester	Lightning Arrester	25	-
8	Cost of laying Storm Water line upto final disposal	Storm water disposal line upto final disposal	17.15	-
9	Cost of laying treated Sewer Water line upto final disposal	Treated sewer water up to final disposal	12.96	-
10	Swimming Pool	Swimming Pool	20	1.80

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:	The project site is located at Tathawade. The road network within the site has been designed to cater to the traffic loads of the project.

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	7914.00
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	996
	Number of 4-Wheelers as approved by competent authority:	249
	Public Transport:	NA
	Width of all Internal roads (m):	6 m wide internal road is provided and 9 m turning radius will be provided.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a building and construction project
	Court cases pending if any	NA
	Other Relevant Informations	The project area is in a residential zone. Proposed project consists of residential buildings having 498 flats
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC AGENDA-0000000279

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 16459.78 m2, FSI area of 25297.86 m2, Non FSI area of 32255.04 m2 and total BUA of 57552 m2. PP proposes to construct 10 no. of residential building.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 85th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed Residential & Commercial Project at S. No 17/1/2/3 , 18/1/2 , 19/1/2/3 , Saswad., Tal. – Purandar , Pune. By M/s. Sable Sanjivani Saswad infrastructure LLP.

Is a Violation Case: No

1.Name of Project	" Sangameshwar "
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nitin Govind Sable
4.Name of Consultant	Goldfinch Engineering System Private Limited Plot No. A-288, Road No. 16 Z, Opp. Agriculture Office Bus-stop, Thane Industrial Area, MIDC (Wagle Estate), Thane (W) – 400 604., Maharashtra, India. PH: 91-22-2580 1529/21/46 Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Residential & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Sangameshwar, S. No 17/1/2/3 , 18/1/2 , 19/1/2/3 , Saswad.
9.Taluka	Purandar
10.Village	Saswad
Correspondence Name:	Mr. Vishal Kukade
Room Number:	----
Floor:	----
Building Name:	Sable Sanjivani
Road/Street Name:	Subhash Nagar
Locality:	Shukrawar Peth
City:	Pune
11.Whether in Corporation / Municipal / other area	Saswad Nagar Parishad
12.IOD/IOA/Concession/Plan Approval Number	iN PROCESS
	IOD/IOA/Concession/Plan Approval Number: IOD/IOA/Concession/Plan Approval Number : Inprocess Dt. 14/05/2018
	Approved Built-up Area: 88047.07
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	65, 100.00 sq.mt.
16.Deductions	4, 564.00 sq.mt.
17.Net Plot area	60, 536.00 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 70,437.66 sq.mt.
	b) Non FSI area (sq. m.): 17609.41 Sq.mt.
	c) Total BUA area (sq. m.): 88047.07
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 70,437.66 sq.mt.
	Approved Non FSI area (sq. m.): 17609.41 Sq.mt.
	Date of Approval: 14-05-2018
19.Total ground coverage (m2)	19, 111.56
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35
21.Estimated cost of the project	980000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sector 1- Building A	P+8	22.8 m
2	Sector 1- Building B	P+8	22.8 m
3	Sector 1- Building C	P+8	22.8 m
4	Sector 1- Building D	P+8	22.8 m
5	Sector 1- Building E	P+8	22.8 m
6	Sector 1- Building F and G	P+8	22.8 m
7	Sector 1- Building Commercial	P+4	18.0 m
8	Sector 2- Building H	P+8	22.8 m
9	Sector 2- Building I	P+8	22.8 m
10	Sector 2- Building J	P+8	22.8 m
11	Sector 2- Building K	P+8	22.8 m
12	Sector 2- Building L	P+8	22.8 m
13	Sector 2- Building M	P+8	22.8 m
14	Sector 2- Building N	P+8	22.8 m
15	Sector 2- Building O	P+8	22.8 m
16	Amenity Building	P+7	23.90 m

23.Number of tenants and shops	Tenement : 1233No, Shop 439 No, skill development centre
24.Number of expected residents / users	6165 (Residents), 2296 (Commercial), (250) Skill Development Centre
25.Tenant density per hectare	250 /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)	Nearest fire station distance 19 km
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	Yes, Will be demolish further
30.Details of the demolition with disposal (If applicable)	Yes , Concrete = 63.10 cum, Steel = 2.5 mt. , Brick Work = 90.75 cum , Asbesestos Sheet Roofing = 473 cum , Kotah Flooring = 444.85 sqm , Wooden Doors = 24.24 sqm , MS Window = 41.15 sqm, Rolling Shutter = 17.28 sqm

31.Production Details

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

SEAC-AGENDA-0000000279

32.Total Water Requirement

Dry season:	**Source of water**	Saswad Municipal Council
	Fresh water (CMD):	609.00
	Recycled water - Flushing (CMD):	342.25
	Recycled water - Gardening (CMD):	53.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1004.25
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	10 Each Building
	Excess treated water	455.00
Wet season:	**Source of water**	Saswad Municipal Council
	Fresh water (CMD):	609.00
	Recycled water - Flushing (CMD):	342.25
	Recycled water - Gardening (CMD):	——
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	951.25
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	10 Each Building
	Excess treated water	515.00
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

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon : 5 meter Pre monsoon : 8 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8Nos + 2 dugwells
	Size of recharge pits :	1 m x1m depth5m (5 no) 1mx1mx depth 4 m with borewell of 30 m (3 no) 10 m diameter and depth 10m + (2 no dugwells)
	Budgetary allocation (Capital cost) :	5.00 Lacs
	Budgetary allocation (O & M cost) :	0.5 Lacs
	Details of UGT tanks if any :	RESI: Domestic Capacity (CUM): 867 Flushing Tank Capacity (CUM) : 279 Fire Capacity (CUM) : 150 COMM: Domestic capacity(CUM): 69 Flushing tank capacity (CUM):57 Fire capacity (CUM): NA Ammenity (skill Dev) : Domestic tank capacity (CUM):7.5 Flushing tank capacity (CUM):6.25 Fire tank Capacity(CUM): 50
35.Storm water drainage	**Natural water drainage pattern:**	STORM WATER DISPOSAL TO NEARBY NALLA
	Quantity of storm water:	1726.82 m3/hr
	Size of SWD:	450mm Wide Gutter with slope 1:200
Sewage and Waste water	**Sewage generation in KLD:**	857.25
	STP technology:	PHYTORID + Package type/phyto
	Capacity of STP (CMD):	450+400+15= 865 KLD
	Location & area of the STP:	AS PER ATTACHED LAYOUT
	Budgetary allocation (Capital cost):	331.96 Lacs
	Budgetary allocation (O & M cost):	16.90 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation = 15140 cum , Filling in Plinth = 17307.28 cum , Filling at Front Side = 2491.20 cum , Concrete = 22650.06 cum , Steel = 2160 mt , AAC Blocks = 10649.74 cum
	Disposal of the construction waste debris:	Excavation = 15033.17 cum , Concrete = 453 , Steel = 43.20 , AAC Blocks = 212.99
Waste generation in the operation Phase:	**Dry waste:**	1615
	Wet waste:	2104
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Less Than 3 %
	Others if any:	NA

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to Saswad Ngar Parishad
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	As Per Drawing
	Area for the storage of waste & other material:	25 m2
	Area for machinery:	65 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	59.50 Lacs
	O & M cost:	14.50 Lacs

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000279

43.Green Belt Development	**Total RG area :**	5, 540.97 Sq.mt.
	No of trees to be cut :	22 to be Replant or Retain
	Number of trees to be planted :	765 Nos
	List of proposed native trees :	Refer Below list
	Timeline for completion of plantation :	1 year before construction 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	Prosopis cineraria	Shami	25	Hardy species. good for restoration of semi and areas. Drought resistant grows in very poor soil in semi arid areas
2	Aegle marmelos	Bel	48	Aegle marmelos is native across the Indian subcontinent. It has a reputation in India for being able to grow in places that other trees cannot. It copes with a wide range of soil conditions (pH range 5- 10), is tolerant of water logging and has an unusually wide temperature tolerance (from-7°C to 48 °C). It requires a pronounced dry season to give fruit.
3	Azadirachta Indica	Neem	63	Good for restoration of drier parts
4	Schleichera oleosa	Kusum	43	It is a larval host for butterflies Malayan, western centaur oakblue, common hedge blue.
5	Cassia fistula	Bahava	36	It is a larval host for butterflies like common emigrant.
6	Butea monosperma	Palas	42	Used in afforestation of saline and waterlogged regions. It is larval host for butterflies.
7	Emblica officinalis	Awala	47	Plant with good regenerative capacity, sturdy. Good for restoration of forest clearing.
8	Bauhinia purpurea	Rakta-Kanchan	38	Leguminous, hardy species, drought resistant, good for plantation on land with less soil layers
9	Mimusops elengi	Bakul	63	Fruits are eaten by animals
10	Tamarindus indica	Chincha	56	Good for shade. Reduces temperatures. Fruits are favoured by wild animals.
11	Phonenix sylvestris	Palm- Shindi	42	Ripe fruits are eaten by many animals. this also helps in seed dispersal.
12	Madhuca Latifolia	Moha	48	Flowers attract many insects, bees.

SEAC-AGENDA-0000000279

13	Albizia lebbeck	Shirish	43	It is a larval host for butterflies common grass yellow. A fast growing nitrogen- fixing, heavy shade tree, recommended for reforestation and firewood plantations. older trees withstand grass
14	Mangifera Indica	Mango	78	Dominant in all kind of forets. Fruits are eaten by wild animals. It is a larval host for butterfly.
15	Ficus religiosa	Pimpal	21	Profusely fruiting trees attract a lot of fruit eating birds. it is a larval host for butterflies.
16	Bombax ceiba	Kate sawar	27	The seedling do not stand transplantation well, and hence direct sowing in the fields is recommended. Stump planting also gives good results.
17	Butea monosperma	Ashoka	45	Used in afforestation of saline and waterlogged regions.
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	Koynel - Clerodendruminerme	0.50 m c/c	200
2	Nirgudi - Vitexnegundo	0.50m c/c	150
3	Chitrak - PlumbagoZeylanica	0.50m c/c	300
4	Tarwad - Cassia auriculata	0.50m c/c	300
5	Kunti - Murraya Exotica	1.00m c/c	300
6	Champa	1.50m c/c	1500
7	Ananta	1.00m c/c	400
8	Jai-Jui	1.00m c/c	300
9	Boganwel	0.50m c/c	400

47.Energy

SEAC-AGENDA-0000000270

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	55KW
	DG set as Power back-up during construction phase	82.5KVA
	During Operation phase (Connected load):	6123KW
	During Operation phase (Demand load):	4799KVA
	Transformer:	8 Nos X 630 KVA
	DG set as Power back-up during operation phase:	2 Nos X 250KVA+ 1 Nos X 82.5KVA
	Fuel used:	DIESEL qty
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. LED are proposed for building Common area Viz. Lobby, Parking & Passages & Staircase, street light etc.
2. 50% of Street lights are on solar system
3. 1% of Solar Photovoltaic generation on total connected load
4. Solar water heating is being proposed for hot water in one of the bath in flats qty
5. As per MSEDCL requirements, we are planned to use high efficiency Transformer to reduce losses.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Saving by considering energy saving practices	20 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	65.90 Lacs
	O & M cost:	3.30 Lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	1.2
2	Land	Labour Camp toilets & sanitation	2.40

SEAC-AGENDA-0000000279

3	Health and Safety	Labour Safety Equipments and training	4.0
4	facility	Disinfection and Health Check-ups	0.51
5	Environment Management	Environmental Monitoring	1.85

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Engineered Constructed Wetland (ECW)	331.96	16.90
2	Solid Waste Management	Solid Waste Management	59.50	14.50
3	Landscaping	Development and Maintenance	76.83	5.82
4	Rain Water Harvesting	Recharge pits with bore well	5.00	0.5
5	Energy Saving	Energy Saving Features	65.90	3.30

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:	NO

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	6, 400 Sq.m.
	Area per car:	12.5 sq.m.
	Area per car:	12.5 sq.m.
	Number of 2-Wheelers as approved by competent authority:	1460Nos (Covered) + 61 (for amenity building)
	Number of 4-Wheelers as approved by competent authority:	324.Nos (Covered) + 31 (for amenity building)
	Public Transport:	Available near to side
	Width of all Internal roads (m):	6.00M AND 9.00M
	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	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	-

SEAC AGENDA-0000000279

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 65100m2, FSI area of 70437.66m2, Non FSI area of 17609.41m2 and total BUA of 88047.07 m2.

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

SEAC-AGENDA-0000000279

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 83rd meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Environment Clearance for " Swapnalok " Proposed Residential & Commercial project At Gat No 660, 661, 662, 663 & 666, Behind Anushka Building, Moshi – Alandi Road, Moshi,. Maharashtra , By M/s. Tulip Properties

Is a Violation Case: No

1.Name of Project	Swapnalok
2.Type of institution	Private
3.Name of Project Proponent	Mr. Zikrullah Abbas Ali Chaudhary
4.Name of Consultant	Goldfinch Engineering System Private Limited Plot No. A-288, Road No. 16 Z, Opp. Agriculture Office Bus-stop, Thane Industrial Area, MIDC (Wagle Estate), Thane (W) – 400604, Maharashtra, India. PH: 91-22-25801529/21/46 Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Residential + Commercial
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	Gat No. 660, 661, 662, 663 & 666, Behind Anushka Building, Moshi – Alandi Road, Moshi
9.Taluka	Haveli
10.Village	Moshi
Correspondence Name:	Mr. Zikrullah Abbas Ali Chaudhary
Room Number:	---
Floor:	---
Building Name:	Sukhwani Imperial Phase III
Road/Street Name:	Pimpri Colony
Locality:	Morwadi, Pimpri
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number : B.P./EC/Moshi/02/2019
	IOD/IOA/Concession/Plan Approval Number: IOD/IOA/Concession/Plan Approval Number : B.P./EC/Moshi/02/2019
	Approved Built-up Area: 38053.37
13.Note on the initiated work (If applicable)	PP had started construction as per sanctioned plan and has constructed total BUA of 11691 m2 onsite as on date.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	PP has applied for revised layout
15.Total Plot Area (sq. m.)	14332.24
16.Deductions	3233.65
17.Net Plot area	11098.59
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20541.28
	b) Non FSI area (sq. m.): 17512.09
	c) Total BUA area (sq. m.): 38053.37
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20541.28
	Approved Non FSI area (sq. m.): 17512.09
	Date of Approval: 16-04-2019
19.Total ground coverage (m2)	2421.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.81
21.Estimated cost of the project	1000000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1	P+11	36.00
2	A2	P+11	33.00
3	B	P+12	35.40
4	C	P+12	35.40
5	D	P+12	35.40
6	E	G+1	9.30
7	Club House	G+1	6.40

23.Number of tenants and shops	Tenement – 454 Nos. , Shops – 25 Nos.
24.Number of expected residents / users	Tenement – 2270 Nos. , Commercial – 258 Nos.
25.Tenant density per hectare	250/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)	Nearest fire station distance 7.8 km (Rajmata Jijau Fire Station)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Approximate 7.98
29.Existing structure (s) if any	PP has constructed building B, C & D on site as per earlier sanctioned plan
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	206.18
	Recycled water - Flushing (CMD):	103.65
	Recycled water - Gardening (CMD):	12.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	321.83
	Fire fighting - Underground water tank(CMD):	200.00
	Fire fighting - Overhead water tank(CMD):	20 CMD for each building
	Excess treated water	132.21
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	206.18
	Recycled water - Flushing (CMD):	103.65
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	309.83
	Fire fighting - Underground water tank(CMD):	200.00
	Fire fighting - Overhead water tank(CMD):	20 CMD for each building
	Excess treated water	144.21
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	NA	NA	Not applicable	NA	NA	Not applicable	NA	NA

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Approximate - 22m
	Size and no of RWH tank(s) and Quantity:	40m3 [4mx4mx3m]
	Location of the RWH tank(s):	Beside D Building
	Quantity of recharge pits:	7 Nos.
	Size of recharge pits :	1.2 Dia x 2.5m Depth
	Budgetary allocation (Capital cost) :	1.75 Lakh
	Budgetary allocation (O & M cost) :	0.3Lakh/Year
	Details of UGT tanks if any :	Domestic Capacity (Cum) : 310 Cum, Flushing UG Tank Capacity (Cum): 157 Cum, Fire Fighting Capacity (Cum): 200 Cum
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	5.3Cum/Minute
	Size of SWD:	600mm x 600mm
Sewage and Waste water	**Sewage generation in KLD:**	286.3
	STP technology:	MBBR
	Capacity of STP (CMD):	1 x 350CMD
	Location & area of the STP:	Near D Building
	Budgetary allocation (Capital cost):	25.00 Lakh
	Budgetary allocation (O & M cost):	8 Lakh/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation :- 5350 Cum, Top Soil :- 1211Cum, Filling in Plinth:- 5454 Cum, Concrete:- 8670 Cum, Cement Bag :- 105960 Bag, Steel :- 290MT, AAC Blocks/fly ash bricks :- 540 Cum, Flooring and Dado Tie :- 36700 SQM, Tile Boxes:- 3000 Nos.
	Disposal of the construction waste debris:	Construction debris will be used for construction site itself and therefore there will not be any solid waste problem from generation of construction-excavated earth. Solid waste, which will be generated from construction workers working within site, will be disposed through municipal collection system.
Waste generation in the operation Phase:	**Dry waste:**	493 kg/day
	Wet waste:	706 kg/day
	Hazardous waste:	Used / Waste Oil - 100 Liters/Year and shall be disposed off through authorized re-cycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	60.0Kg/day
	Others if any:	NA

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to agency SWACH
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	On Ground Floor
	Area for the storage of waste & other material:	20.00 Sq.mt
	Area for machinery:	40.00 Sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14.67 Lakh
	O & M cost:	4.19 Lakh/yr

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	7.9	7.7	5.5 - 9.0
2	TSS	mg/l	220	Below 100	100
3	BOD	mg/l	426	Below 30	100

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Waste Oil	5.1	Lit/Y	0.0	100.00	100.00	Sold Out to Authorized Re-cycler

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	D.G. Set [180KVA]	Diesel - 40LPH	1	3.0	0.1	80

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	0.0	40Lit/hr	40Lit/hr

41.Source of Fuel	Market and local Vendor

SEAC-AGENDA-0000000279

42.Mode of Transportation of fuel to site	Truck and Tanker

43.Green Belt Development	**Total RG area :**	1234.82 sq.mt
	No of trees to be cut :	NA
	Number of trees to be planted :	234 Nos.
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	1 Year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops Elengi	Bakul	35	-Fragrant Flowers Or Leaves -Attracts Birds/Bees -Evergreen Tree! Creates Shade
2	Cassia Fistula	Bahava	9	-Auspicious -Attracts Birds/Bees /Butterflies -Hanging Or Weeping Growth
3	Neolamarckia Cadamba	Kadamb	17	-Fragrant Flowers Or Leaves -Attracts Butterflies /Bees -Quick Growing/Creates Shade
4	Azadirachta Indica	Neem	6	-Fragrant Flowers Or Leaves -Plant For Pooja Evergreens -Quick Growing/Insect Repellent
5	Lagerstromla Speciosa	Taman	5	-Creates Shade -Attracts Birds/Butterflies/Bees -Good For Screening
6	Michelia Champ Aka	Pivala Chafa	7	-Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees -Evergreen Tree
7	Bauhinia Purpurea	Rakt Kanchan	18	-Fragrant Flowers Or Leaves -Plant For Pooja -Evergreen Tree
8	Saraca Asoca	Sita Ashoka	10	-Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees -Deep-Green, Shiny Foliage
9	Plumeria Alba	Chafa	7	-Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees -Quick Growing/For Pooja
10	Millingtonia Hortensis	Such	27	-Fragrant Flowers Or Leaves -Plant For Pooja -Evergreen Tree
11	Albizia Lebbeck	Shirish	13	-Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees -Drought Tolerant
12	Pongamia Pinnata	Indian Beech Tree	14	-Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees -Drought Tolerant
13	Sylygium Cumini	Jamun	18	-Fruit Plant -Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees

SEAC-AGENDA-0000002778

14	Mangifera Indica	Mango	19	-Fruit Plant -Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees
15	Caryota Urens	Fish Tail Palm	9	-Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees -Evergreen Tree
16	Manilkara Zapota	Chickoo	10	-Fruit Plant -Fragrant Flowers Or Leaves -Attracts Birds/Butterflies/Bees
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)	22.2 KW
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	1766 KW
	During Operation phase (Demand load):	923 KVA
	Transformer:	630 KVA * 2
	DG set as Power back-up during operation phase:	180 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1.Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
2. LED fittings will be used for corridors, Lobbies and common areas.
3. Energy efficient LED lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
4. All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
5. 75 Liters of Solar water is provided for each flat of existing & new buildings.
6. Solar PV panel system is proposed for Street lighting & Building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total project savings in percent	26%

SEAC-AGENDA-0000000279

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
D.G. Set	Not Applicable	Acoustic Enclosure with proper stack height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	53.45 Lacs
	O & M cost:	4.97 Lacs/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Environment	Water for Dust Suppression	1.8
2	Safety	Site Sanitation & Safety	2.0
3	Environmental Monitoring	Environmental Monitoring	0.86
4	Disinfection	Disinfection	0.6
5	Health Check up	Health Check up	2.4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	Rain Water Harvesting	1.75	0.3
2	Sewage Treatment Plant	Sewage Treatment Plant	25.00	8.00
3	Organic Waste Composting	Organic Waste Composting	14.67	4.19
4	Tree Plantation	Tree Plantation	18.00	1.50
5	Energy Saving	Energy Saving	53.45	4.97
6	Environment Monitoring	Environment Monitoring	0.0	5.00

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	11236.60 Sqm,(For Cycle 924 Nos. x 1.40 =1293.60 sqm)
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	956 Nos.
	Number of 4-Wheelers as approved by competent authority:	243 Nos.
	Public Transport:	Available near to site
	Width of all Internal roads (m):	6.00 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	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	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000279

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion of earlier Environmental clearance for total plot area of 14332.24m2, FSI area of 20541.28m2, Non FSI area of 17512.09m2 and total BUA of 38053.37m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Environment Clearance for 'Silver Stone'- residential & commercial project at S.No.22/1,23/4, Handewadi, Taluka Haveli, Pune by Panama Sunarch Developers.

Is a Violation Case: No

1.Name of Project	Environment Clearance for 'Silver Stone'- residential & commercial project at S.No.22/1,23/4 Handewadi, Taluka Haveli, Pune by Panama Sunarch Developers.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Gautam Ladkat , Panama Sunarch Developers.
4.Name of Consultant	VK:e environmental LLP
5.Type of project	Residential & commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC has been obtained from environmental department (SEAC 2212/C.R 182/TC II) on dated 8th April 2015
8.Location of the project	S.No.22/1,23/4, Handewadi, Taluka Haveli, Pune.
9.Taluka	Haveli
10.Village	Handewadi
Correspondence Name:	Mr. Gautam Ladkat
Room Number:	6th Floor
Floor:	6th Floor
Building Name:	Panama House
Road/Street Name:	Ganapati chowk, Viman Nagar
Locality:	Viman Nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Sanction from PMRDA received on dt 31.5.2018.no BHA1820/17-18
	IOD/IOA/Concession/Plan Approval Number: Sanction from PMRDA received on dt31.5.2018.no BHA1820/17-18
	Approved Built-up Area: 29102.85
13.Note on the initiated work (If applicable)	Construction of buildings is in progress as per EC received
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	24300 m2
16.Deductions	2230.87 m2
17.Net Plot area	22069.13 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30309.9 m2
	b) Non FSI area (sq. m.): 19591.48 m2
	c) Total BUA area (sq. m.): 49901
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 29102.85
	Approved Non FSI area (sq. m.): 18503.64
	Date of Approval: 31-05-2018
19.Total ground coverage (m2)	3778 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17.11 %
21.Estimated cost of the project	720000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P+14	42.00
2	Building B & C	P+11	32.45
3	Building D & E	P+14	44.30
4	Building F & G	P+14	42.90
5	Building H	LP+UP+07	22.95
6	Row Houses (10 numbers)	G+1	6.15
7	Club House	G+1	6.15
8	Amenity building 1	G+5	17.15

23.Number of tenants and shops	Residential Tenants : 2125 persons , 423 Tenements & 10 row houses Number of shops : 113
24.Number of expected residents / users	Residential users : 2125 persons , Commercial users : 949
25.Tenant density per hectare	480 Tenants/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Fire engine will be accessed from proposed 24 m wide DP road. Proposed internal road width is 6 m . Nearest fire station : Dhankawadi , Nearest fire station distance : 10.5 km .
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	For easy access for fire tender , 6 m wide internal driveway, and 9 m turning radius will be provided
29.Existing structure (s) if any	construction in progress as per EC received
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

SEAC AGENDA-0000000279

Dry season:	**Source of water**	Hanadewadi Grampanchayat
	Fresh water (CMD):	205
	Recycled water - Flushing (CMD):	124
	Recycled water - Gardening (CMD):	33
	Swimming pool make up (Cum):	3.6 kld
	Total Water Requirement (CMD) :	365.6 kld
	Fire fighting - Underground water tank(CMD):	300 kld
	Fire fighting - Overhead water tank(CMD):	20 kld
	Excess treated water	157 kld
Wet season:	**Source of water**	Hanadewadi Grampanchayat
	Fresh water (CMD):	205
	Recycled water - Flushing (CMD):	124
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	332.6 kld
	Fire fighting - Underground water tank(CMD):	300 kld
	Fire fighting - Overhead water tank(CMD):	20 kld
	Excess treated water	172 kld
Details of Swimming pool (If any)	Area of swimming pool :156 m2 Volume : 198 m3 Water requirement for make up : 3.6 m3/day Details of plant and machinery used for treatment of swimming pool water : Filters membrane dosing pump , chlorination unit along with whole setup for water filtration and control panel . Detailed of quality to be achieved for swimming pool water , Parameters to be monitored : The pH and chlorine content of the swimming pool water after treatment will be mentioned as follows pH = 7.2 -7.5 Chlorine content = 1.00 - 1.5 ppm	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total

SEAC-AGENDA-0000000279

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:**	Post mansoon : 10- 12 BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	20
	Size of recharge pits :	Size of 1 recharge pit : 1.2x1.2x1.2m
	Budgetary allocation (Capital cost) :	10,00,000
	Budgetary allocation (O & M cost) :	1,00,000 / year
	Details of UGT tanks if any :	Total UGWT caoacity:609 kld Domestic: 308 Flushing: 186 Fire: 300

35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits
	Quantity of storm water:	3 m3/min
	Size of SWD:	600 mm

Sewage and Waste water	**Sewage generation in KLD:**	296 kld
	STP technology:	MBBR (Moving bed- Bio-Reactor)
	Capacity of STP (CMD):	310 kld
	Location & area of the STP:	On ground 144 sqm
	Budgetary allocation (Capital cost):	24,18,168/-
	Budgetary allocation (O & M cost):	1,84,000/-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total waste generated: 20 Kg/day Dry Waste = 12kg/day , Wet Waste = 8kg / day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling
Waste generation in the operation Phase:	**Dry waste:**	567 kg/day
	Wet waste:	732 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Approx 23 kg/day
	Others if any:	E-Waste : 5.5 kg/day

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Will be Handed over to authorized Vendor
	Wet waste:	Wet waste will be treated in Organic Waste Converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure.
	Others if any:	E waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Total area 65 sqm
	Area for machinery:	Total area 65 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15,25,000
	O & M cost:	5,10,000

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000279

43.Green Belt Development	**Total RG area :**	Mandatory open space: 2207 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	282
	List of proposed native trees :	Refer below list
	Timeline for completion of plantation :	Till operational phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	7	Medicinal value , to control soil erosion , to improve soil erosion .
2	Bhunia racemosa	Apta	4	Every part of the plant is medicinal , Drought tolerant species
3	Carvota urens	Fishtail palm	5	Grown in any type of soil . Very Hardy
4	Dallbergia sisoo	Shisav	4	Medicinal value , Bird attracting species
5	Erythrina indica	Pangara	8	Fragrant flowers , Drought tolerant species
6	Gmelina arborea	Shivan	10	Medicinal value , Drought tolerant species , Bird attracting species
7	Mimosups elengii	Bakul	9	Fragrant flowers ,Medicinal value , to control soil erosion
8	bauhiniapurpurea	Gulabikanchan	4	Medicinal plant
9	Magnifera Indica	Mango	5	Fruit bearing trees
10	Nyctanthus arbotritrits	Parijatak	4	Fragrant flowers,Medicinal value
11	Putrunjiva roxburghii	Putranjiva	4	Medicinal value , Drought tolerant species
12	Roystonia regia	Bottle palm	25	Ornamental plant , Medicinal value, Birds and Bats eat fruit
13	Micheliachampaca	Sonchafa	4	Flowering plant
14	Albizia lebek	Shirish	5	Medicinal for skin , Fragrant flowers , to control soil erosion, Bird attracting species
15	Anthocepalus kadamba	Kadamb	4	Medicinal value,to control soil erosion ,Birds , squirrels, monkey eat fruits
16	Aeglemarmelos	Bel	4	drought tolerant, Medical value
17	Bauhinia blackiana	Kanchan raj	29	Every part of the plant is medicinal , Drought tolerant species
18	Butea monosperma	Palas	4	Medicinal value,Bird attracting species,l value,to control soil erosion
19	Cassia fistula	Bahawa	20	Medicinal value, Drought tolerant species

SEAC-AGENDA-0000001279

20	Choclospermum religiosum	Sonsavar	6	Medicinal value, Native species
21	Cordia dichotoma	Bhokar	12	Medicinal value ,edible fruits
22	Melia Azaradichta	bakam neem	15	Medicinal value ,birf attracting speceis
23	Ficus arnottiana	Payar	4	Bird attracting species , Drought tolerant species ,to control soil erosion
24	Murraya exotica	kamini	6	flowering tree
25	Ficus glomerata	Umber	4	Medicinal value ,edible fruits , Bird attracting species
26	Ficus retusa	Nandruk	4	Medicinal value , Bird attracting species , Drought tolerant species ,Hardy plant
27	leucaena leucocephala	subabhul	1	source of animal feed
28	Vachellia nilotica	babhul	1	Medicinal value
29	Terminialia kattapa	badam	1	Edible fruits , Drought tolerant species , to control soil erosion
30	Tabebuia rosea	Tabebuia rosea	23	Medicinal value , Flowering plant
31	spathodia companulata	Fountain tree	10	Medicinal value , Religious plant
32	Moringa oleifera	Drum stick	1	Drought tolerant, edible
33	peltophorum pterocarpum	copper pod tree	10	Medicinal value , bird attracting species
34	Tabebuia agrgentea	Tabebuia agrgentea	12	Medicinal value , Religious plant
35	Bignonia metapotomica	Bignonia metapotomica	08	Medicinal value , Religious plant , flowering
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000279

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	165 KVA
	DG set as Power back-up during construction phase	65 KVA
	During Operation phase (Connected load):	2391 KW
	During Operation phase (Demand load):	2062 KVA
	Transformer:	3 NO 630 KVA & 1 NO 315 KVA
	DG set as Power back-up during operation phase:	1 NO 200 KVA & 1 NO 50 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Fuel efficient Automated DG set
LED & solar PV Common Area
Energy Efficient Lift
Lightening timers
Occupancy / Lighting Sensors

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving due to renewable energy	1% demand load

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:**	1,26,90,000/-
	O & M cost:	19,03,500/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control, dust suppression measures, top soil preservation	25,65,250/-
2	Land	Labour camp toilets & sanitation	4,80,000/-
3	Health and safety	Labour safety & training	4,00,000/-

SEAC-AGENDA-0000000279

4	Health and safety	Health check up & disinfection	51,000/-
5	Environment Management	Environment management cell	1,70,000/-
6	Environmental Monitoring (Per Year)	Air, Water, Noise, Soil, DG set	1,82,600/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	1 STP	47,20,000	10,17,000
2	Solid waste management	1 OWC	15,25,000	5,10,000
3	Landscaping	Development & maintenance of landscape	37,31,000	5,96,900
4	Rain water harvesting	Recharge pit	10,00,000	1,00,000
5	Environmental monitoring	Environmental monitoring	-	1,85,500
6	swimming pool	swimming pool	27,72,000	30,000
7	WTP	WTP	12,00,000	4,50,000
8	Renewable energy	Renewable energy	1,26,90,000/-	19,03,500/-

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:	The site is located in a residential zone in Handewadi near Undri Pisoli Road. The development will be accessible from 24 m wide road while the internal access ways are 6 m wide.

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	7551.49 sq.m.
	Area per car:	12.5 sq.m
	Area per car:	12.5 sq.m
	Number of 2-Wheelers as approved by competent authority:	616
	Number of 4-Wheelers as approved by competent authority:	189
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Building & construction
	Court cases pending if any	NA
	Other Relevant Informations	The project area is in a amendment in EC
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000279

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 24300 m2, FSI area of 30309.9 m2, Non FSI area 19591.48 m2 and total BUA of 49901 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed Building Construction Project

Is a Violation Case: No

1.Name of Project	Proposed Building Construction Project by M/s. Chandrarang Developer & Builders Pvt. Ltd & M/s. Om Sai Constructions
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vijay Pandurang Jagtap
4.Name of Consultant	S G M Enviro (I) Pvt. Ltd.
5.Type of project	Residential & Commercial Development Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 251/1A,1B,1C & 253/4, (PLOT - A)
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Mr. Vijay Pandurang Jagtap
Room Number:	-
Floor:	-
Building Name:	Jagtap Complex
Road/Street Name:	Shivaji Chowk
Locality:	Near PCMC School, Pimple Guraw
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD is in process
	IOD/IOA/Concession/Plan Approval Number: IOD is in process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD is in process
15.Total Plot Area (sq. m.)	13,000
16.Deductions	463.61
17.Net Plot area	11282.75
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 32455.76
	b) Non FSI area (sq. m.): 32743.30
	c) Total BUA area (sq. m.): 65199.06
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** IOD is in process
	Approved Non FSI area (sq. m.): IOD is in process
	Date of Approval: 05-02-2019
19.Total ground coverage (m2)	2600.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20 %
21.Estimated cost of the project	1775400000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000279

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A- Commercial (4 shops * 12 Offices)	2B+GF+Mezz+5	57.60
2	Building A- Residential+ MHADA(78 residential + 30 MHADA flats)	2BP+ GF+ Stilt 1+Stilt 2 +16 floors (MHADA up to 6th floor, Residential from 7th floor up to 16th floor)	57.60
3	Residential: B building (124 No. of flats)	2BP+GP+2UP+16	57.60
4	Residential: C building (124 No. of flats)	2BP+GP+UP+16	57.60
5	Residential: D building (124 No. of flats)	2BP+GP+2UP+16	57.60
6	Residential: E Building (124 No. of flats)	2BP+GP+UP+16	57.60
7	Bungalow - 3 Nos.	G+1	6.45
8	Club House-1	G+1	7.75

23.Number of tenants and shops	Residential- 605, Bungalows- 3 No.s Commercial:- Shops- 4 No.s, Offices- 12 No.s
24.Number of expected residents / users	Residential user: 3040 No.s, Commercial user: 355 No.s
25.Tenant density per hectare	692
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 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	Yes. At present there are 3 No. of existing bungalows which will be demolished.
30.Details of the demolition with disposal (If applicable)	At present there are 3 No. of existing bungalows which will be demolished. The waste that will get generated from the demolition will be used for leveling & backfilling.

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	284
	Recycled water - Flushing (CMD):	142
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	436
	Fire fighting - Underground water tank(CMD):	375
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	193
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	284
	Recycled water - Flushing (CMD):	142
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	426
	Fire fighting - Underground water tank(CMD):	375
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	203
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	426	426	Not applicable	43	43	Not applicable	383	383
Gardening	Not applicable	10	10	Not applicable	10	10	Not applicable	0	0

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 13.00 m. to 16.33 m. BGL. (14.67 M. BGL Average) Rainy Season – 5.00 m. to 7.67 BGL. (6.34 M. BGL Average) Winter Season – 9.00 m. to 12.00 m. BGL. (10.50 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 13 No. -7 Nos. with recharge bores & 6 No. of Soak Pits.
	Size of recharge pits :	7 No. of 2.50 m. X 2.50 m. X 1.50 m. for recharge bores & 6 No. of 1.0 m. X 1.00 m. X 1.00 m. Soak Pits.
	Budgetary allocation (Capital cost) :	9.50 Lakh
	Budgetary allocation (O & M cost) :	1.00 Lakh / year
	Details of UGT tanks if any :	1)Domestic tank - 353kld 2) Drinking tank -71kld 3) fire fighting tank -375kld 4)Flushing tank - 220
35.Storm water drainage	**Natural water drainage pattern:**	Slope to the east side
	Quantity of storm water:	150.53 m3 / Day
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	383
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 385 CMD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	70 Lacs
	Budgetary allocation (O & M cost):	10 Lacs/A
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	0.4 to 0.6 MT/day
	Disposal of the construction waste debris:	This material shall be used for back filling and leveling of the plot
Waste generation in the operation Phase:	**Dry waste:**	631 kg/day
	Wet waste:	968 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	10 Kg/day
	Others if any:	E-waste: Negligible

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	To Authorized vendor of PCMC
	Wet waste:	Organic Waste Converter of 970 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge will be used as manure.
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	80
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 Lacs
	O & M cost:	3 Lacs/Annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.5-8	6.5-8	6.5-9
2	TSS	mg/l	200	10	50
3	BOD	mg/l	300	10	10
4	COD	mg/l	450	30	100
5	Oil & Grease	mg/l	10-50	1-5	10

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set 1 - 275 KVA	Diesel- 45 lit./hr	1	5.96	-	-
2	DG set 2 - 10 KVA	Diesel- 2.8 lit./hr	2	2.3	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

SEAC-AGENDA-0000000279

1	Diesel for DG sets	Not applicable	47.8 Lit/hr	47.8 Lit/hr
41.Source of Fuel		Local vendor		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	1253.64 Sq. m.
	No of trees to be cut :	4
	Number of trees to be planted :	163
	List of proposed native trees :	Given below
	Timeline for completion of plantation :	within a year

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	Bombax ceiba	Cotton tree	10	Shady tree, Small white fragrant flower
2	Azadirachta Indica	Neem	9	Good Medicinal use
3	Mangifera Indica	Mango	9	Tall evergreen tree with fruit bearing
4	Areca catechu	Palm	5	Tall evergreen tree with fruit bearing
5	Pongamia pinnata	India beech	10	Good Medicinal use
6	Artocarpus heterophyllus	Jackfruit	6	Tall evergreen tree with fruit bearing
7	Albizia Lebbeck	Shirish	10	Fragrant flowers or leaves , Attract birds/ butterflies/ bees drought tolerant
8	Saraca Indica	Sita Ashok	14	Fragrant flowers or leaves, attract birds/ butterflies/ bees, Deep-green, Shiny foliage
9	Butea Monosperma	Palas	10	Fragrant flowers or leaves, Covering the entire crown plant for pooja
10	Lagerstromia flos-reginae	Jarul	6	Creates shade, attracts birds/ butterflies/ bees, Good for screening
11	Syzygium Cumini	Jamun	11	Tall evergreen tree with fruit bearing
12	Bauhinia purpuria	Raktakanchan	10	Fragrant flowers or leaves, plant for pooja, evergreen tree
13	Khaya Grandis	Khaya	10	evergreen tree
14	Cassia Fistula	Golden Shower	7	Auspicious attract birds/ butterflies/ bees/ hanging or weeping growth
15	Mimusops Elengi	Bakul	10	Shady tree, Small white fragrant flower
16	Terminalia catappa	Badam	10	Fruit bearing evergreen tree
17	Michelia Champka	Chapha	10	Ornamental flowering tree

SEAC-AGENDA-0000000279

18	Manilkara Zapota	Chikoo	6	NAtive, 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 :**	MSEDCL
	During Construction Phase: (Demand Load)	30 - KW
	DG set as Power back-up during construction phase	40 - KVA
	During Operation phase (Connected load):	2693 - KW
	During Operation phase (Demand load):	1354 - KW
	Transformer:	630 KVA – 2.NOS & 315 KVA – 1.NO.
	DG set as Power back-up during operation phase:	275 KVA – 1.NO. For Residential , 45 lit./hr @ 75% Loading , 10 KVA – 1.NO. For Commercial , 2.8 lit./hr @ 75% Loading
	Fuel used:	Diesel: For DG set of 275 KVA = 45 lit./hr @ 75% Loading , For DG set of 10 KVA = 2.8 lit./hr @ 75% Loading
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Timers and contactors will be used to switch on / off common are& external landscape and facade lighting.
2. Light Emitting Diode (LED) will be used for corridors , Lobbies and common areas.
3. All fluorescent light fixtures are specified to incorporate electronic chokes which have less watt-loss compared to electro-magnetic chokes and result in superior operating power factor. This indirectly saves energy. Electronic chokes also improves life of the fluorescent lamps.
4. Energy efficient cfl/t5/led lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total of all Savings for (per year)	20 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water	Not applicable	STP
Solid waste	Not applicable	OWC

SEAC-AGENDA-0000000279

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	77 Lacs
	O & M cost:	1.5 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	Drinking water	-	Capital cost -1, O & M Cost per annum- 0.10
2	Sanitation	-	Capital cost -12.5, O & M Cost per annum- 0.75
3	Health check up	-	Capital cost -1, O & M Cost per annum- 0.25
4	Labour Camp Management	-	Capital cost -3, O & M Cost per annum- 0.50

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	-	70	10
2	RWH System	-	9.5	1
3	Solid Waste Management -OWC etc.	-	18	3
4	Energy conservation	-	77	1.5
5	Landscaping	-	47	4
6	Environmental Monitoring	-	-	3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

SEAC-AGENDA-0000000079

Parking details:	**Number and area of basement:**	2 No. of Basements- Basement 1: parking slab & ramp= 3528.87 , Basement 2: parking slab & ramp= 3528.87
	Number and area of podia:	2 No. of Upper parking- Upper parking 1: parking slab & ramp= 3528.87, 2. Upper parking 2: parking slab & ramp= 1595.08
	Total Parking area:	2 Basement+ 2 Upper parking + Ground Parking Area= 12181.69 Sq.m.
	Area per car:	30.00 Sq.m
	Area per car:	30.00 Sq.m
	Number of 2-Wheelers as approved by competent authority:	1270
	Number of 4-Wheelers as approved by competent authority:	331
	Public Transport:	Buses, Auto rickshaws, Train
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) 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	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-

SEAC AGENDA-0000000279

Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 13000 m2, FSI area of 32455.76m2, Non FSI area of 32743.30m2 and total BUA of 65199.06 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000279

During discussion following points emerged:

1. PP has proposed various activities like toilet, rest room, water tank etc. to Blossom Public School which is a private school. This activity be deleted being private school. PP to give names of machineries to be provided to District Hospital. PP to give number of trees to be planted at various places, number of solar light units, number of RWH pits etc. at various places. PP to mention realistic cost of ambulance and indicate the trust who will look after the ambulance.

2. Fire tender movement to be revised showing approach road to the bungalows nad other services with minimum 4.5 m width and cul-de-sac to turn around east end. STP, OWC and UGT to be reshaped accordingly to ensure this. Cross section at locations where services like UGT, STP, OWC are located.

3. Distance between STP, OWC and UGT shall be as per the norms.

4. Fire fighting arrangements for lower ground and basement shall be specifically indicated.

5. PP to submit approved parking plan for basement and lower ground. PP to submit ventilation plan.

6. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

7. PP to submit geo-hydrological report along with details of RWH pits.

8. PP to submit CFO NOCs.

9. PP to submit plantation plan as per MOEFCC norms.

10. PP to submit undertaking regarding tree cutting.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Environmental Clearance For Construction Project , S.No. 19/(1 To 7+9)/1 , Plot No - 01 At - Kiwale, Masulkar City, Pune

Is a Violation Case: No

1.Name of Project	" Little Earth Masulkar City "
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nitin Kulkarni
4.Name of Consultant	Goldfinch Engineering System Private Limited Plot No. A-288, Road No. 16 Z, Opp. Agriculture Office Bus-stop, Thane Industrial Area, MIDC (Wagle Estate), Thane (W) – 400 604., Maharashtra, India. PH: 91-22-2580 1529/21/46 Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Residential + Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 19/(1 To 7+9)/1, Plot No - 01 At - Kiwale, Masulkar City, Pune
9.Taluka	Haveli
10.Village	Kiwale
Correspondence Name:	Mr. Nitin Kulkarni
Room Number:	--
Floor:	--
Building Name:	"Little Earth Masulkar City"
Road/Street Name:	--
Locality:	Kiwale
City:	PCMC
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: IOD/IOA/Concession/Plan Approval Number : INWD/EC/KVL/0001/18
	Approved Built-up Area: 305677.02
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	101000.67
16.Deductions	18561.22
17.Net Plot area	82439.45
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 147647.12
	b) Non FSI area (sq. m.): 158029.90
	c) Total BUA area (sq. m.): 305677.02
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 147647.12 sq.mt.
	Approved Non FSI area (sq. m.): 158029.90 sq.mt.
	Date of Approval: 07-07-2018
19.Total ground coverage (m2)	13059.61
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16
21.Estimated cost of the project	480000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A (Sector 1)	2P+10	36.20 (Including Parking)
2	B1 (Sector 1)	2P+12	42.20 (Including Parking)
3	B2 (Sector 1)	2P+12	42.20 (Including Parking)
4	B3 (Sector 1)	2P+12	42.20 (Including Parking)
5	B4 (Sector 1)	2P+12	42.20 (Including Parking)
6	C19 (Sector 1)	P+12	39.10 (Including Parking)
7	C20 (Sector 1)	P+12	39.10 (Including Parking)
8	C21 (Sector 1)	P+12	39.10 (Including Parking)
9	B5 (Sector 2)	2P+16	54.20 (Including Parking)
10	B6 (Sector 2)	2P+16	54.20 (Including Parking)
11	B7 (Sector 2)	2P+16	54.20 (Including Parking)
12	B8 (Sector 2)	2P+16	54.20 (Including Parking)
13	B11 (Sector 2)	2P+16	54.20 (Including Parking)
14	B12 (Sector 2)	2P+16	54.20 (Including Parking)
15	C10 (Sector 3)	P+16	51.10 (Including Parking)
16	C11 (Sector 3)	P+16	51.10 (Including Parking)
17	C12 (Sector 3)	P+16	51.10 (Including Parking)
18	C13 (Sector 3)	P+16	51.10 (Including Parking)
19	C14 (Sector 3)	P+16	51.10 (Including Parking)
20	C15 (Sector 3)	P+16	51.10 (Including Parking)
21	C16 (Sector 3)	P+16	51.10 (Including Parking)
22	C17 (Sector 3)	P+16	51.10 (Including Parking)
23	C18 (Sector 3)	P+16	51.10 (Including Parking)
24	D1 (Sector 4)	P+14	45.10 (Including Parking)
25	D2 (Sector 4)	P+14	45.10 (Including Parking)
26	COMMERCIAL A	P+G+1	9.90 (Including Parking)
27	COMMERCIAL B	P+G+1	10.45 (Including Parking)
28	CLUBHOUSE 01	G+1	7.20 (Including Parking)
29	CLUBHOUSE 02	G+1	7.20 (Including Parking)
30	CLUBHOUSE 03	G+1	7.20 (Including Parking)
31	CLUBHOUSE 04	G+1	7.20 (Including Parking)
32	CLUBHOUSE 05	G+1	7.20 (Including Parking)

23.Number of tenants and shops	Tenement: 2271 Nos. , Shop 86 Nos.
24.Number of expected residents / users	Residential - 11355 , Commercial - 1065
25.Tenant density per hectare	250/ha
26.Height of the building(s)	

SEAC-AGENDA-0000000279

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest fire station distance 11 km (Life Republic Fire Station)
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**	PCMC
	Fresh water (CMD):	1035.15
	Recycled water - Flushing (CMD):	526.13
	Recycled water - Gardening (CMD):	12.00
	Swimming pool make up (Cum):	6.00
	Total Water Requirement (CMD) :	1573.28
	Fire fighting - Underground water tank(CMD):	2500
	Fire fighting - Overhead water tank(CMD):	420.00
	Excess treated water	867.02

SEAC-III-GENDA-0000000279

Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	1035.15
	Recycled water - Flushing (CMD):	526.13
	Recycled water - Gardening (CMD):	---
	Swimming pool make up (Cum):	6.00
	Total Water Requirement (CMD) :	1561.28
	Fire fighting - Underground water tank(CMD):	2500
	Fire fighting - Overhead water tank(CMD):	420.00
	Excess treated water	879.02
Details of Swimming pool (If any)	Dimension of Swimming Pool : Main Pool : 19 m x 9m x1.2m Kids pool : 9.0mx 5.5mx 0.6m Balancing tank: 5.5m x 4m x 1.2m Total Water Requirement in KLD : 270 KLD Water requirement for make up in KLD : 6 KLD Details of Plant & Machinery used for treatment of Swimming pool water : A) Pool Disinfection system : Rapid and filtration system with Ozonation and partial chlorination. B) Pool Type : overflow channel. C) Filtration Flow Rate : 33m3/hr x 2 filter = 66m3/hr. D) Filtration Velocity :40m3/hr/m2. Filtration Turn Over : 4.09 hrs. Capital Cost : 60 .00 lakhs O & M cost : 7.00 lakhs/year	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post Monsoon : 4.75 Mt., Pre Monsoon : 10 Mt.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	19 Nos.
	Size of recharge pits :	Pit : 2 x 2 x 2 meter,Bore well : 0.180 meter diameter and 60 meter depth, silting chamber : 1 x 1 x 1
	Budgetary allocation (Capital cost) :	10.76 Lac
	Budgetary allocation (O & M cost) :	0.95 Lac/ year
	Details of UGT tanks if any :	Domestic Capacity (Lit) – 1497780 Lit. Flushing UG Tank Capacity (Lit) : 789187.5 Lit., Fire Fighting Capacity (Lit) : 2500000 Lit
35.Storm water drainage	**Natural water drainage pattern:**	Inspection Chamber with pipe
	Quantity of storm water:	Quantity of storm water (Annual average): 49490 m3
	Size of SWD:	Dia 1000 mm
Sewage and Waste water	**Sewage generation in KLD:**	1405
	STP technology:	MBBR
	Capacity of STP (CMD):	Sector 1 -150 + Sector 2 -550 + Sector 3 -680 + Sector 4 -140 = 1520
	Location & area of the STP:	Decentralised
	Budgetary allocation (Capital cost):	341.32 Lacs
	Budgetary allocation (O & M cost):	62.83 Lacs/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation – 525900 Cum ,Top soil - 25250.17 cum Filling in Plinth – 72800 Cum, Concrete – 69600 Cum , Cement Bag – 920000 Bag , Steel – 10250 MT , AAC Blocks – 42000 Cum , Flooring & Dado Tile – 292750 Sqm , Tile Boxes – 196900 Nos.
	Disposal of the construction waste debris:	Concrete – 1400 Cum - Using for Road & Driveways Filling, Cement Bag – 920000 Bag - Using for recycling, Steel – 305 MT - Can take to salvage company, AAC Blocks –840 Cum - Using for Waterproofing work, Flooring & Dado Tile – 5855 - Using for Road & Drive way filling, Tile Boxes – Using for recycling
Waste generation in the operation Phase:	**Dry waste:**	2430.75 kg/day
	Wet waste:	3513.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	169.74 kg/day
	Others if any:	NA

SEAC AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to agency SWATCH
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	Decentralised
	Area for the storage of waste & other material:	30 x 10 fts
	Area for machinery:	25 x 6 x 8 fts
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.56 Lacs
	O & M cost:	5.40 Lacs/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		Authorized vendor		
42.Mode of Transportation of fuel to site		By road		

SEAC-AGENDA-0000000279

43.Green Belt Development	**Total RG area :**	10161.74 Sq.mt.
	No of trees to be cut :	NA
	Number of trees to be planted :	1266 Nos.
	List of proposed native trees :	List Mention Below
	Timeline for completion of plantation :	1 Year before completion of work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bakul	Mimusops elengi	56	Shady tree, small white fragrant flowers
2	Kadamb	Anthocephallus cadamba	48	Fruit Bearing Tree Attracts Birds
3	Nindian Beech	Pongamia Glabra	41	Good Medicinal Use
4	Golden Shower	Cassia Fistula	34	Auspicious Attract Birds/Bees/Butterfiles Hanging Or Weeping Growth
5	Rakta Kanchan	Bauhinia Purpuria	79	Fragrant Flowers Or Leaves Plant For Pooja, Evergreen Tree
6	Putranjiva	Putrajiva Roxburghii	19	Medium Size Ever Gree Tree
7	Sonchapa	Michellia Chamapaka	45	Flower Butterfly Host Plant Medium Size Evergreen Tree, Fragrant
8	Jarul	Lagerstromia Flosregina	49	Creates Shade Attract Birds/Bees/Butterfiles Good For Screening
9	Elephant Apple	Dillenia Indica	66	Fruit Bering Tree Attracts Birds Medicinal Use
10	Manataly	Terminalia Mantaly	36	Evergreen with horizontal layered branches
11	Shirish	Albizia Lebbeck	18	Frangrant Flowers Or Leaes Attract Birds/ Butterflies /Bees Drough Tolerant
12	Mango	Mangifera Indica	18	Tall Evergreen Tree With Fruit Bearing
13	Jackfruit	Artocarpus Heterophyllus	49	Tall Evergreen Tree With Fruit Bearing
14	Jamun	Syzygium Cumini	34	Tall Evergreen Tree With Fruit Bearing
15	Neem	Azadirechta Indica	21	Plant For Pooja/Evergreen Fragrant Flowers Or Leaves Quick Groving / Insect Repellent
16	Khaya	Khaya Grandis	27	Evergreen Tree
17	Sita Ashoka	Saraca Indica	32	Fragrant Flowers Or Leaves Attract Birds/Butterflies/Bees Deep Green, Shiny Foliage

SEAC-AGENDA-0000000279

18	Palas	Butea Monosherma	32	Fragrant Flowers Or Leaves Flowers Covering The Entire Crown Plant For Pooja
19	Cork Tree	Milingtonia Hortensis	51	Tall Evergreen Tree With Fragrant White Flowers
20	Pimpal	Ficus Religiosa	12	Religious Tree With Medicinal Use
21	Badam	Terminalia Catappa	25	Evergreen Fruit Bearing Tree Attracts Birds
22	Mohogany	Swietenia Macrophylla	28	Big Shady Tree
23	Apta	Bauhinia Blackiana	37	Semi Evergreen Tree With Medical Value
24	Parijatak	Nyctanths Arbor-Tristis	49	Small Tree, With Small White Flower Beautifuly Host Plant
25	Karmal	Dillenia Ceiba	28	Medicinal Tree Non- Toxic Tree
26	Chapha	Plumeria Alba	114	Fragrant Flowers Or Leaves Attract Birds/Butterflies/Bees Quick Groving/For Pooja
27	Supari Palms	Areca Catechu	86	Ornamental Nutty Tree
28	Fishtail Palms	Caryota Urens	26	Tall Evergreen Tree
29	Washingtonia Palms	Washingtonia Robusta	22	Busy Palm For Avenue
30	Royal Palms	Roystonea Regia	38	Tall Evergreen Tree With Fruit Bearing
31	Foxtail Palms	Wodyetia Bifurcata	46	Tall Evergreen Tree With Fruit Bearing
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	Jai	0.45 m	95.04
2	Ratrani	0.45 m	110.00
3	Tulsi	0.45 m	113.11
4	White Plumbago	0.45 m	176.00
5	Kanher	0.45 m	134.00
6	Tagar/ Chandani	0.45 m	172.00
7	Spyder Lily	0.30 m	141.22
8	Wadelia	0.23 m	147.00
9	Abelia	0.23 m	97.00
10	Mogra	0.45 m	111.00

47.Energy

SEAC-AGENDA-0000000270

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	76.25 KW
	DG set as Power back-up during construction phase	82.5KVA
	During Operation phase (Connected load):	11288.65 KVA
	During Operation phase (Demand load):	5587.81 KVA
	Transformer:	630 KVA X 9 Nos.
	DG set as Power back-up during operation phase:	250 KVA x 1 Nos. + 365 KVA x 1 Nos.
	Fuel used:	DIESEL
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

1 Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
2 LED fittings will be used for corridors ,Lobbies and common areas.
3 Energy efficient LED lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
4 All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
5 125 Liters Solar water is provided for each flat .
6 Solar PV panel system is proposed for Street lighting & Building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	SOLAR WATER HEATING SYSTEM +SOLAR PV PANELS+ LIGHT FITTING TYPE AND TIMER SAVINGS (FOR COMMON AREA) UNITS PER YEAR.	21%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	75.00 Lacs
	O & M cost:	3.75 Lacs/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water	Dust Suppression	0.7

SEAC AGENDA-10000000279

2	Site Sanitation, Health Check Up & Safety	Health & Safety	1.0
3	Environmental Monitoring	Air, Water, Noise Soil	0.4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, water, Noise, Soil	Post Project Environment Monitoring	0.00	0.125
2	Water	Rainwater Harvesting	10.76	0.95
3	Wastewater	Sewage Treatment Plant	341.32	62.83
4	Municipal Solid waste	Solid waste Management	7.56	5.40
5	Plantation	Landscaping	125.00	12.00
6	Energy	Energy Savings	75.00	3.75

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:	NO

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	1 Nos., Area – 4000 sq.mt
	Number and area of podia:	29807.72 sqm
	Total Parking area:	57782 Sqm (For Cycle : 4570 X 1.40 = 6398 Sqm)
	Area per car:	Covered 30 Sqm, Open 25 Sqm
	Area per car:	Covered 30 Sqm, Open 25 Sqm
	Number of 2-Wheelers as approved by competent authority:	4698 Nos.
	Number of 4-Wheelers as approved by competent authority:	Covered : 1193 Nos., Open : 60 Nos.
	Public Transport:	Available near to side
	Width of all Internal roads (m):	6 & 7.50 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	B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000279

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 101000.67 m2, FSI area of 147647.12 m2, Non FSI area of 158029.90 m2 and total BUA of 305677.02m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

SEAC decided to ***recommend*** *the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed commercial TCS facility at Plot No. 5, Rajiv Gandhi Infotech Park, Phase III, Hinjawadi, Pune By M/s.Tata Consultancy Services Ltd.

Is a Violation Case: No

1.Name of Project	Proposed commercial TCS facility at Plot No. 5, Rajiv Gandhi Infotech Park, Phase III, Hinjawadi, Pune By M/s. Tata Consultancy Services Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Capt. Mrinal Shively
4.Name of Consultant	VK:e Environmental LLP , Pune
5.Type of project	Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. 5, Rajiv Gandhi Infotech Park, Phase III,Hinjawadi, Pune By M/s. Tata Consultancy Services Ltd.
9.Taluka	Mulshi
10.Village	Hinjawadi
Correspondence Name:	Capt. Mrinal Shively
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Plot no. 2 & 3, TCS Sahyadri Park
Locality:	Rajiv Gandhi Infotech Park, Hinjawadi Phase III
City:	Pune - 411057
11.Whether in Corporation / Municipal / other area	MIDC Hinjawadi
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	40,000.00 m2
16.Deductions	00
17.Net Plot area	40,000.00 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 90,962.21
	b) Non FSI area (sq. m.): 52,424.79
	c) Total BUA area (sq. m.): 143387.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 16-11-2018
19.Total ground coverage (m2)	19902.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.75 % on net plot area
21.Estimated cost of the project	5900000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 Office Block with 2 towers above concourse level and Customer care block	Office Block- 2B(Partial)+Stilt +Concourse level (with mezzanine floor)+11 Tower floors Customer care block-G+2	Office Block- 68.40 Customer care block- 22.60
2	Guard block & 3 security cabins	G	Guard block- 6.50 m Security cabin- 4.05 m
3	Utility block	G+1	19.20

23.Number of tenants and shops	1 Office
24.Number of expected residents / users	11614 (Employees+ Support Staff)
25.Tenant density per hectare	NA as it is commercial project
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Width of road from nearest fire station is 30 m wide DP road. Nearest Fire Station Hinjawadi Phase 3 Fire Station- 0.7 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	For easy access of fire tender 9m turning radius will be provided.
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

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	290- for domestic + 15- for engineering (filter backwash) + 25 for AC Make up
	Recycled water - Flushing (CMD):	For Flushing - 232 + Recycled for AC Make up- 115
	Recycled water - Gardening (CMD):	25
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	702
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	90
	Excess treated water	00
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	290- for domestic + 15- for engineering (filter backwash)
	Recycled water - Flushing (CMD):	For Flushing - 232 + Recycled for AC Make up- 140
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	677
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	90
	Excess treated water	00
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

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon- 7.10 m bgl Post Monsoon- 3.10 m bgl
	Size and no of RWH tank(s) and Quantity:	2 no of 250 kld tanks
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	8 No.
	Size of recharge pits :	2 m × 2m× 2 m with Bore well 178 mm diameter and 60 meter depth
	Budgetary allocation (Capital cost) :	56,00,000/-
	Budgetary allocation (O & M cost) :	6,00,000/-
	Details of UGT tanks if any :	Raw water tank= 500KLD (will double as RWH tanks during monsoon) Domestic water tank= 500 KLD Flushing water tank= 500 KLD Cooling Tower Make up = 100 KLD Fire fighting tank = 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	The storm water drainage will be designed according to contours
	Quantity of storm water:	141.67 m3/day at peak rainfall intensity
	Size of SWD:	0.30 Sq.m at the outlet from site
Sewage and Waste water	**Sewage generation in KLD:**	465
	STP technology:	Moving Bed Bio Reactor Technology
	Capacity of STP (CMD):	2 STPs of 250 Kld each
	Location & area of the STP:	On ground, Area is 430 Sq.mtr
	Budgetary allocation (Capital cost):	120,00,000/-
	Budgetary allocation (O & M cost):	24,00,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	120 kg/day (Dry waste- 48 kg/day, Wet waste-72 kg/day)
	Disposal of the construction waste debris:	The construction waste will be used within the site for leveling purpose and base course preparation of internal approach roads
Waste generation in the operation Phase:	**Dry waste:**	1597 kg/day
	Wet waste:	1307 kg/day
	Hazardous waste:	Used Spent Oil- 880 lit/year
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	80 kg/ day
	Others if any:	E-waste- 11614 kg/year Battery waste- 480 nos. of UPS battery per 4 years

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Wet waste will be treated in onsite organic waste converter machine
	Hazardous waste:	Handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge will be used as manure
	Others if any:	Handed over to authorized recyclers for further handling & disposal purpose
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	65 sqm
	Area for machinery:	102 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	31,75,000/-
	O & M cost:	8,40,000/-

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	DG Set	HSD	4 Nos.	3.0 m above roof	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD (Only for emergency)	Not applicable	As per Requirement	As per Requirement
41.Source of Fuel		Fuel for DG set, Source- Nearest Diesel Pump Station		

SEAC-AGENDA-0000000279

42.Mode of Transportation of fuel to site	By Road

43.Green Belt Development	**Total RG area :**	4033.95 sqm
	No of trees to be cut :	To be cut- 50, To be transplant- 22
	Number of trees to be planted :	720 Nos.
	List of proposed native trees :	Refer Below list
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Millingtonia Hortensis	Buch	33	Evergreen tree, Ornamental tree pleasant fragrance of the flowers
2	Putranjiva roxburghii	Putranjiva	20	Moderate size, evergreen tree, Medicinal value
3	Azadirachta indica	Neem	32	Medicinal value, Shade giving tree
4	Mimusops elengi	Bakul	23	Attracts Birds/Bees, Trees give thick shade and flowers emit fragrance
5	Cassia fistula	Bahava	28	Auspicious, Attracts Birds/Bees/Butterflies, Hanging or weeping growth
6	Lagerstromia speciosa	Taman	28	Creates Shade, Attracts Birds/ Butterflies/Bees, Good for Screening
7	Saraca Asoca	Sita Ashok	39	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Deep-Green, Shiny foliage
8	Neolamarckia cadamba	Kadamba	36	Fragrant Flowers or leaves, Attracts Butterflies/Bees, Quick growing, Creates Shade
9	Michellia Champaka	Pivla Chafa	36	Fragrant flowers, Attracts Birds/ Butterflies/Bees, Good for Screening
10	Bauhinia purpurea	Rakt Kanchan	31	Fragrant flowers or leaves, Use for Pooja, Evergreen Tree
11	Plumeria alba	Chafa	27	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Quick growing use for Pooja
12	Albizia lebbeck	Shirish	15	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Drought tolerant
13	Pongamia pinnata	Indian beech tree	33	Fragrant flowers or leaves, Attracts Birds/ Butterflies/Bees, Drought tolerant
14	Syzygium cumini	Jamun	28	Fruit plant, Shade giving tree, Attracts birds/bees/butterflies
15	Mangifera indica	Mango	35	Fruit plant, Shade giving tree, Attracts birds/bees/butterflies

SEAC-AGENDA-0000000279

16	Moringa oleifera	Drumstick tree	17	Fruit plant, Medicinal tree, Deciduous tree, Attracts birds/bees/butterflies
17	Bauhinia racemosa	Apta	14	Moderate size deciduous tree, Plant for Pooja
18	Aegle marmelos	Bel	25	Fruit plant, Medicinal value, Plant for Pooja
19	Teminalia catappa	Badam	23	Fruit plant, Quick growing, Creates shade, Attracts birds/bees
20	Butea monosperma	Palas	14	Fragrant flowers, Plant for Pooja
21	Senegalia catechu	Cutch tree	14	Moderate size deciduous tree, Medicinal plant, Useful for wood
22	Annona reticulata	Ramphal	10	Fruit plant, moderate size tree, Attracts birds/bees/butterflies
23	Artocarpus heterophyllus	Jack fruit	28	Fruit plant, evergreen tree, Commercial value
24	Dalbergia sissoo	Indian rosewood shisham	20	Large size deciduous tree, Medicinal plant, Useful wood,
25	Erythrina indica	Indian coral tree	14	Fragrant flowers, Attracts birds/bees/butterflies, Quick growing
26	Toona ciliata	Indian mahogany	19	Useful wood, Attracts birds/bees/butterflies, Quick growing
27	Melia Azedarach	Persian lilac	26	Fragrant flowers, Attracts birds/bees/butterflies, Medicinal value
28	Phyllanthus emblica	Avla	22	Large size evergreen tree, Medicinal value
29	Terminalia arjuna	Arjun	24	Fruit plant, Attracts birds/bees/butterflies, Medicinal value
30	Ficus benghalensis	Wad	03	Large tree, Quick growing, use for pooja, Thick shade giving
31	Ficus religiosa	Pipal	03	Large tree, Religious significance, Attracts birds/bees/butterflies, Thick shade giving 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	Thevetia nerifolia	0.90	310
2	Stachytarpheta sp	0.45	50
3	Plumbago zeylanica	0.60	185
4	Acorus calamus	0.45	35
5	Alovera	0.60	110
6	Ocimum sanctum	0.45	60
7	Cyimbopogon floxosus	0.45	60
8	Clitoria ternatea	1.20	280
9	Hibiscus	0.75	310
10	Nerium oleander	0.90	310

SEAC-AGENDA-0000008279

11	Clematis gauriana	1.20	275
12	Hibiscus Lafrance pink	0.60	115
13	Kamini	0.45	90
14	Mogara double	0.30	250

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	300 KW
	DG set as Power back-up during construction phase	1 X 320 KVA
	During Operation phase (Connected load):	9008 KW
	During Operation phase (Demand load):	5160 KW
	Transformer:	4 X 2000 KVA 33KV/433V
	DG set as Power back-up during operation phase:	4 X 2000 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of High Efficiency Centrifugal Chillers fitted with VFD
Use of Variable Speed secondary pumping systems
Use of Electronically Commutated Plug Fans for Air Distribution
Use of Heat Pumps for Hot water Generation
Efficient lamps (All LED) and fixtures
Solar PV Panels
Total Energy Saving 19.18 % Energy saving due to Solar- 2 % of connected load

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of High Efficiency Centrifugal Chillers fitted with VFD Use of Variable Speed secondary pumping systems Use of Electronically Commutated Plug Fans for Air Distribution Use of Heat Pumps for Hot water Generation Effient lamps (All LED) and fixtures Solar PV Panels	Total Energy Saving 19.18 % Energy saving due to Solar PV- 2% of connected load

50.Details of pollution control Systems

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

SEAC-AGENDA-0000000279

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	200,00,000/- for Solar PV
	O & M cost:	10,00,000/- for Solar PV

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	25.20
2	Land	Labour Camp toilets & sanitation	28.80
3	Health and Safety	Personal Protective Equipment	24.00
4	Health and Safety	Health checkup & Disinfection	3.66
5	Environment Management	Environment management cell	1.75
6	Environmental Monitoring	Environmental Monitoring	1.85

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP -MBBR Technology	120.00	24.00
2	Solid Waste Management	OWC	31.75	8.40
3	Landscaping	Development and Maintenance	89.00	7.55
4	Rain Water Harvesting	RWH Pits	56.00	6.00
5	Energy Saving	Solar PV panels	200.00	10.00
6	Environmental Monitoring	-	-	1.82

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

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

52.Any Other Information

No Information Available

53.Traffic Management

SEAC-ACTIDA-0000000279

	Nos. of the junction to the main road & design of confluence:	Proposed site is located at Hinjawadi. The road network within the site has been designed to cater to the traffic loads of the project.
Parking details:	**Number and area of basement:**	2nos. of Partial Basement. B1 – 16937 sq.m , B2 - 17273 sq.m
	Number and area of podia:	NA
	Total Parking area:	46718 sqm.
	Area per car:	12.5 sqm.
	Area per car:	12.5 sqm.
	Number of 2-Wheelers as approved by competent authority:	200 (10% of total no. of car parking as per MIDC DCR)
	Number of 4-Wheelers as approved by competent authority:	2009
	Public Transport:	Yes. Existing Public transport available & Company provided transport will be arranged.
	Width of all Internal roads (m):	Min. 6 m wide internal road and 9 m turning radius will be provided.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) Building & Construction Project
	Court cases pending if any	NA
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.

SEAC-AGENDA-0000000279

Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for Expansion in earlier Environmental clearance for total plot area of 40,000m2, FSI area of 90962.91m2, Non FSI area of 52424.79m2 and total BUA of 143387m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed Construction of 568 housing units with 4 Convenient Shops for Economically Weaker Section Group Under Pradhan Mantri Awas Yojana on S.NO. 136/1 (P), C.T.S. No. 4911 (P), Reservation (HDH) No.283, Village- Akurdi, District – Pune by M/s Pimpri Chinchwad Municipal Corporation.

Is a Violation Case: No

1.Name of Project	Proposed Construction of 568 housing units with 4 Convenient Shops for Economically Weaker Section Group Under Pradhan Mantri Awas Yojana on S.NO. 136/1 (P), C.T.S. No. 4911 (P), Reservation (HDH) No.283, Village- Akurdi, District – Pune by M/s Pimpri Chinchwad Municipal Corporation.
2.Type of institution	Semi Government
3.Name of Project Proponent	Pimpri-Chinchwad Municipal Corporation
4.Name of Consultant	Green Circle Inc.
5.Type of project	Affordable Housing project under Pradhan Mantri Awas Yojana for Economical Weaker Section.
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	Survey No. 136/1 (P), C.S.T. No. 4911 (P), Reservation No.283, Village- Akurdi, District - Pune
9.Taluka	Mawal
10.Village	Akurdi
Correspondence Name:	Mr. Pradeep Ramchandra Pujari : Executive engineer, BSUP Department
Room Number:	Engineering Department
Floor:	1st Floor
Building Name:	Pimpri Chinchwad Municipal Corporation, Pimpri, Pune - 411018
Road/Street Name:	Pimpri, pune -411018
Locality:	Pimpri Chinchwad Municipal Corporation, Pimpri, pune - 411018
City:	Pune
11.Whether in Corporation / Municipal / other area	Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	B.P/ENV/Akurdi/01/2018 Dated 07/06/2017
	IOD/IOA/Concession/Plan Approval Number: B.P/ENV/Akurdi/01/2018 Dated 07/06/2017 As per 28 meeting of the central Sanctioning and monitoring committee (CSMC) for Pradhan MantriAwasYojana (Urban) Housing for all dated 26 Dec 2017 vide File No. N-11011/13 /2017-HFA-III-UD (E.File 9031679)
	Approved Built-up Area: 29793
13.Note on the initiated work (If applicable)	No Construction work has been started.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	The scheme is approved under Pradhan Mantri Awas yojna as per 28 meeting of the central Sanctioning and monitoring committee (CSMC).
15.Total Plot Area (sq. m.)	11,132.82 Sq. m
16.Deductions	2,615.85 Sq. m
17.Net Plot area	8,516.97 Sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20,374.23 Sq. m
	b) Non FSI area (sq. m.): 9,418.95 Sq. m
	c) Total BUA area (sq. m.): 29793
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20,374.23 Sq. m
	Approved Non FSI area (sq. m.): 9,418.95 Sq. m
	Date of Approval: 07-06-2018
19.Total ground coverage (m2)	2,156.97 Sq. m

SEAC-AGENDA-0000000279

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.37 %
21.Estimated cost of the project	578000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower- A	P + 12	36 m
2	Tower- B	P + 12	36 m
3	Tower- C	P + 12	36 m
4	Tower- D	P + 12	36 m
5	Tower- E	P + 12	36 m
6	Tower- F	P + 12	36 m

23.Number of tenants and shops	No. of Tenants : 568, Shops :4
24.Number of expected residents / users	2866 persons
25.Tenant density per hectare	2574.370
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60 m (old Pune- Mumbai Highway)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	NA. The land is open reservation land for HDH and now building construction will be done as per approved construction area under Pradhan Mantri Awas Yojana.
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

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	256 KLD
	Recycled water - Flushing (CMD):	128 KLD
	Recycled water - Gardening (CMD):	6 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	390 KLD
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	25.0 KLD per Building
	Excess treated water	183 KLD
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	256 KLD
	Recycled water - Flushing (CMD):	128 KLD
	Recycled water - Gardening (CMD):	0 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	384 KLD
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	25.0 KLD per Building
	Excess treated water	189 KLD
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	384 KLD	384 KLD	Not applicable	51 KLD	51 KLD	Not applicable	333 KLD	333 KLD
Gardening	Not applicable	6 KLD	6 KLD	Not applicable	6 KLD	6 KLD	Not applicable	0 KLD	0 KLD

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 3 m
	Size and no of RWH tank(s) and Quantity:	2.0 x 2.0 x 3.0 m Deep, Rain water harvesting system will be developed in the form of Rain Water recharge Pits. Rain Water will be collected thought RWP. Total 9 Recharge pits are proposed in the project. Total 88% of rain water will be harvested through these recharge pits.
	Location of the RWH tank(s):	Ground level (UG)
	Quantity of recharge pits:	9 Nos.
	Size of recharge pits :	2.0 x 2.0 x 3.0 m Deep
	Budgetary allocation (Capital cost) :	78.32 Lakhs
	Budgetary allocation (O & M cost) :	3.91 Lakhs
	Details of UGT tanks if any :	All UG tanks are proposed at ground level as per requirement of each building. Rain water harvesting system will be developed in the form of Rain Water recharge Pits. Rain Water will be collected thought RWP. Total 88 % water will be Harvested. Every tower has Domestic UGT tanks of capacity 66.83 KLD and flushing UGT tanks of capacity 23.50 KLD .
35.Storm water drainage	**Natural water drainage pattern:**	North to East
	Quantity of storm water:	The Minimum Size of Storm Water Channel is 0.6 x 0.6m deep. Max size of 0.6 x 0.7m deep & drain connected at two locations of project site.
	Size of SWD:	450 mm X 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	333 KLD
	STP technology:	RMBR
	Capacity of STP (CMD):	1 STP of capacity 350 KLD
	Location & area of the STP:	Ground Level (UG)
	Budgetary allocation (Capital cost):	119 Lakhs
	Budgetary allocation (O & M cost):	5.95 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	3235.455 cum of excavated material
	Disposal of the construction waste debris:	Construction waste debris will be reused at the same site. Excess will be used for filling purpose of our own development sites as much as possible. Rest will be disposed off to authorized sites. Quantity of 2226.56 cum top soil to be preserved which is being utilized for landscaping.
Waste generation in the operation Phase:	**Dry waste:**	431 Kg /day
	Wet waste:	996 Kg /day
	Hazardous waste:	0 Kg/day
	Biomedical waste (If applicable):	0 Kg/day
	STP Sludge (Dry sludge):	48 Kg/day
	Others if any:	NA

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be disposed off through authorized contractors.
	Wet waste:	Wet garbage shall be treated in organic waste converter (OWC) on site and manure so obtained will be used in landscaping.
	Hazardous waste:	Waste oil from D.G. sets will be handed over to authorized recyclers.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP to be mixed with wet waste and processed in OWC, this will be used as manure for gardening.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	70 Sq. m
	Area for machinery:	200 Sq. ft
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	22.5 Lakhs
	O & M cost:	6.6 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	6.5-8.5	6.0-8.0	6.5-9
2	Suspended Solids	mg/lit	400	10	100
3	BOD	mg/lit	350	<10	100
4	COD	mg/lit	600	<50	250

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG	LDO	1	Height of Building + 3 M	0.15	54 degree celcius

40.Details of Fuel to be used

SEAC-AGENDA-0000000279

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	Not applicable	55 Litres /hr	Not applicable
41.Source of Fuel		LDO		
42.Mode of Transportation of fuel to site		Road		

43.Green Belt Development	**Total RG area :**	946.33 Sq. m
	No of trees to be cut :	0 Nos.
	Number of trees to be planted :	96 Trees of 8cm to 12cm size and 10 different varieties of shrubs will be planted.
	List of proposed native trees :	Peripheral trees will be retained
	Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus Excelsa	Maharukh	20	Good for roadside plantation and have medicinal properties
2	Anthocephallus cadamba	Kadamb	15	Good for roadside plantation and provide shade.
3	Saraca indica	Sita ashok	15	Good for roadside plantation and provide shade.
4	Cassia fistula	Bahava	10	Have medicinal properties and larval host for butterflies.
5	Lagerstroemia flos regineae	Tamhan	10	Good as an avenue tree, good for group planting around water gardens and ponds.
6	Azadirachta indica	Neem	15	Good for restoration of dryer parts, good for air purifier and have medicinal properties.
7	Michelia champaca	Son chafa	5	Good for ornamental purpose.
8	Michelia champaca	Son chafa	6	Good for ornamental purpose.
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000279

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	170 kW
	DG set as Power back-up during construction phase	1 DG set of 200 kVA
	During Operation phase (Connected load):	3354.26 kW
	During Operation phase (Demand load):	1507.76 kW
	Transformer:	4 No of 630 kVA
	DG set as Power back-up during operation phase:	1 DG of 125 kVA and 1 DG of 250 kVA capacity.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving Measures:
- Road/Landscape area lighting : LED Street Lighting
- Lobby & staircase and Parking area lighting on LED lights/ Solar lights
- Solar Hot Water system to all flats
- T5 lights at parking space.
- Lifts with VFD
- Water Level Controller with Timer for water pumps system to be provided.
- Roofs will be insulated to minimize heat gain with 50 mm expanded polystyrene or equivalent insulation.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Road/Landscape : LED Street Lighting	50%
2	Parking Lights : LED	45%
3	Lobby and Staircase :LED Lights	45%
4	Lifts wih VFD and Passange (8 People)	30%
5	Lifts wih VFD and Service (13 People)	33%
6	Solar Hot Water system	100%
7	Plumbing/ Fire fighting load	30%
8	Total Energy saving	38.61%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water pollution due to domestic sewage	Not applicable	STP
Solid waste	Not applicable	OWC

SEAC-AGENDA-0000000279

Air pollution and Noise pollution due to DG set	Not applicable	Stack of required height and acoustic enclosure for noise control

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	208.88 Lakhs
	O & M cost:	107.49 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	water sprinkling	0.7 Lakhs
2	Site Sanitation	Septic tank	1.5 Lakhs
3	Environmental Monitoring	For Air, Water, soil and Noise analysis from MoEF accredited lab	1.3 Lakhs
4	Disinfection at site	Pest control Team appointment	7.2 Lakhs
5	Health Check up of Workers	Doctor appointment	43.2 Lakhs
6	DMP cost	Safety during construction , PPE to workers	21 Lakhs

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP Cost	STP installation	119 Lakhs	5.95 Lakhs/yr
2	RWH cost	Rain Water Harvesting Tank and Recharge Pits	78.32 Lakhs	3.91 Lakhs/yr
3	Environmental Monitoring	For Air, Water, soil and Noise anlaysis from MoEF accredited lab	0 Lakhs	15.205 Lakhs/yr
4	Solar Energy	Solar Hot water System for all the flats	171 Lakhs	8.55 Lakhs/yr
5	Gardening	Total area of garden is 946.33 Sq.mt.	18 Lakhs	0.9 Lakhs
6	Solid waste management	OWC machine	22.5 Lakhs	6.6 Lakhs/yr
7	Energy Saving Measures	Energy saving equipments installed	208.88 Lakhs	107.49 Lakhs/yr
8	DMP cost	Fire sprinklers, extinguisher, camera,security sign etc	112 Lakhs	5.6 Lakhs/yr

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

SEAC-AGENDA-0000000279

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:	Separate entry and exit roads with minimum 15 m abutting road and Drive way designed for the project is 6.00 mt wide.
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	3124.00 Sq. m
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Two Wheeler - 710 Nos. and Bicycles - 710 Nos.
	Number of 4-Wheelers as approved by competent authority:	0 nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6.0 m wide internal driveway.
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable

SEACAGENDA-00000000279

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 11132.82 m2, FSI area of 20374.23 m2, Non FSI area of 9511.64 m2 and total BUA of 29885.87 m2.

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

SEAC-AGENDA-0000000279

DECISION OF SEAC

During discussion following points emerged:

1. PP has proposed DP road development costing 1.05 Cr. PP to revise CER and include activities useful for community like electric crematorium facility, providing ambulance, sustainable tree plantation, providing solar energy to schools etc. PP to submit revised CER plan.

2. PP to submit details of storm water and sewage up to final disposal point.

3. PP to submit details of STP.

4. PP to submit master layout superimposing all environmental parameters.

5. PP to submit details of RWH pits.

6. PP to submit survival report of existing trees. PP to submit plantation plan incorporating local native fruit bearing trees.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for 'HM Royal, Proposed Residential and Commercial project at S. No 18, H.No. 2/2+3+4A to 4E , Kondhwa – Bdk, Pune by Arti Properties Pvt. Ltd

Is a Violation Case: Yes

1.Name of Project	'HM Royal, Proposed Residential and Commercial project at Kondhwa – Bdk, Pune by Arti Properties Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajkumar Sarda
4.Name of Consultant	VK:e environmental LLP
5.Type of project	Residential and Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No 18, H.No. 2/2+3+4A to 4E, Kondhwa – Bdk, Pune
9.Taluka	Haveli
10.Village	Kondhwa
Correspondence Name:	Arti Properties Pvt. Ltd. C/62, VIBGYOR Towers, 9th Floor, Bandra Kurla Complex, Bandra East, Mumbai
Room Number:	C/62
Floor:	9th Floor
Building Name:	VIBGYOR Towers, Bandra Kurla Complex
Road/Street Name:	Bandra East,
Locality:	Bandra East,
City:	Mumbai
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Under proces
	IOD/IOA/Concession/Plan Approval Number: Under process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Approx. 86,000 sqm is constructed on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	48,479.17 m2
16.Deductions	19,167.47 m2
17.Net Plot area	29,311.70 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 64,670.74
	b) Non FSI area (sq. m.): 41054.30
	c) Total BUA area (sq. m.): 105725
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 24-05-2019
19.Total ground coverage (m2)	5625.57
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.1
21.Estimated cost of the project	1740000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1A	Basement+P+9	30.0
2	1B	Basement+P+9	30.0
3	1C	Basement+P+9	30.0
4	1D	Basement+P+9	30.0
5	2A	Basement+G+11	36.0
6	2B	Basement+G+11	36.0
7	2C	Basement+G+11	36.0
8	2D	Basement+G+11	36.0
9	3A	2 Basements+P+11	36.0
10	3B	2 Basements+P+12	39.0
11	3C	2 Basements+P+12	39.0
12	3D	1 Basements+P+12	39.0
13	4 (commercial)	Basement +G+10	35.47
14	5A	2 Basements+G+10	35.50
15	5B	2 Basements+G+10	35.50
16	5C	2 Basements+G+10	35.50

23.Number of tenants and shops	No. of tenements : 807 No. of shops & offices: 45 shops & 18 offices
24.Number of expected residents / users	Residential Tenants: 4035 Commercial Tenants: 279
25.Tenant density per hectare	144 Tenements/hectare 720 Tenants/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Width of the road is 40 m wide. Nearest fire station: Kondhwa budruk fire station Nearest Fire Station Distance : Approximately 50 mt
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Residential Buildings, commercial building exists on site. Approx. 86,000 sqm is constructed on site.
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

SEAC-AGENDA-0000000279

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	372
	Recycled water - Flushing (CMD):	186
	Recycled water - Gardening (CMD):	24
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	586
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	226
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	372
	Recycled water - Flushing (CMD):	186
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	562
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	250
Details of Swimming pool (If any)	pH-7.0 to 7.6 b)Chlorine Content -0.8 to 1.0 ppm Residual Chlorine in pool c) Disinfection Treatment - With Ozone	

33.Details of Total water consumed

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

SEAC-AGENDA-000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon water level 4.10 m bgl , Pre monsoon water level 10.10 m bgl
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	14
	Size of recharge pits :	Size of recharge pit: 1.5m x1.5m x 2 m,
	Budgetary allocation (Capital cost) :	6,50,000/-
	Budgetary allocation (O & M cost) :	70,000/-
	Details of UGT tanks if any :	UGT for cluster 1 & 4 Fire Fighting Tank 200 Raw Water Tank 44.5 Domestic Tank 133.6 UGT for cluster 2 Fire Fighting Tank 200 Raw Water Tank 61.2 Domestic Tank 183.6 UGT for cluster 3 Fire Fighting Tank 200 Raw Water Tank 59.6 Domestic Tank 178.8 UGT for cluster 5 Fire Fighting Tank 200 Raw Water Tank 20.3 Domestic Tank 61.1
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits.
	Quantity of storm water:	37.71 m^3
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	485
	STP technology:	MBBR
	Capacity of STP (CMD):	3 nos of total 525 m3/day
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	59,00,000/-
	Budgetary allocation (O & M cost):	15,50,000/-

36.Solid waste Management

SEAC-AGENDA-3000000279

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 4 kg/day , Wet waste (Kg/day): 06 kg/day , Total waste generated:10kg/day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	848.5 kg/day
	Wet waste:	1238.4 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	72 kg/day
	Others if any:	E-waste 6.3 Kg/day
Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH.
	Wet waste:	will be treated in Organic Waste Converter (OWC).
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure.
	Others if any:	E-waste: Will be handed over to authorized recyclers
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	total : 75 sqm
	Area for machinery:	total : 75 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	19,90,000/-
	O & M cost:	5,88,000/-

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

SEAC-AGENDA-000000279

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 :**	4076.82 sqm
	No of trees to be cut :	00
	Number of trees to be planted :	221.0
	List of proposed native trees :	Refer below list
	Timeline for completion of plantation :	Operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Millingtonia hortensis	Akash nimb,buch,cork tree	13	The tree is considered ornamental and the pleasant fragrance of the flowers renders it ideal as a garden tree.
2	Anthocephalus Kadamba	Kadamb	2	Ornamental tree ,scented flowers, good shade
3	Azadirichta indica	kadunimb	9	Good shade, medicinal, used for pest control
4	Lagerstromia speciosa	taman	8	attractive flowering
5	Pterospermum acerifolium	muchkund	3	Ornamental tree, shade giving
6	Swietenia macrophylla	mahogony	4	good shade, road side planting
7	Mimusops elengii	bakul	6	fragrant flowers, good shade
8	Michelia champaka	sonchafa	24	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
9	Averrhoa carambola	kamrakh	14	edible sweet fruits , shade tree
10	Bauhinea blackeana	Kanchan	11	Ornamental tree, scented flowers
11	Peltoforum	Pil mohor	11	copper pods visual treat ,nice sound of rustling pods ,yellow flowers
12	Spathodea campanulata	pichkari	15	huge shade giving tree, bright orange red flowers (april to june)with a water pichkari
13	Terminalia katappa	badam	4	fruit tree, ornamental

SEAC-AGENDA-0000000279

14	Cassia grandis	pink shower tree	12	pink flowers
15	Plumeria alba	pandhra chafa	14	Medium sized evergreen tree, white flowers, Butterfly host plant
16	Cassia fistula	bahava	15	Ornamental , grapes like flowering, Good for roadside Plantation & provide shade
17	Tabebuia argentia	trumpet tree	24	It is a popular ornamental tree in subtropical and tropical regions,grown for its spectacular flower display on leafless shoots at the end of the dry season.
18	Erythrina varigata	Pangara	4	bright orange flowers from april to june
19	Terminalia mantaly	almond	12	ornamental tree
20	Ficus benjamina	weeping fig	16	evergreen tree, moderate water requirement
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)	179 KW
	DG set as Power back-up during construction phase	200 kvA
	During Operation phase (Connected load):	4920.4 KW
	During Operation phase (Demand load):	2503.5 kvA
	Transformer:	630KVA X 5NO
	DG set as Power back-up during operation phase:	160 KVA & 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Using T5+ LED fixtures with electronic ballast
- Using automatic timer operation against manual operation for external lighting
- Using high efficient transformer against conventional transformer
- T5 led, T8 tube for parking
- LED T8 for common area
- Using Solar hot water 125 lit/flat
- Using Solar PV's in common area

SEAC-AGENDA-0000000279

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using T5+ LED fixtures with electronic ballast • Using automatic timer operation against manual operation for external lighting • Using high efficient transformer against conventional transformer • T5 led, T8 tube for parking • LED T8 for common area • Using Solar hot water 125 lit/flat • Using Solar PV's in common area	21.02%

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:**	Solar Hot Water System :Rs. 6,50,000/-, Solar PV :Rs. 16,02,400/-
	O & M cost:	Solar Hot Water System :Rs. 6,500/-, Solar PV :Rs. 1,61,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	61,82,415/-
2	Land	Labour Camp toilets & sanitation	2,00,000/-
3	Health & Safety	Labour Safety Equipments and training	2,00,000/-
4	Environment	Environmental Monitoring	1,85,600/-
5	Health & Safety	Disinfection and Health Check-ups	30,000/-
6	Environment	Environmental Monitoring cell	1,70,000/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	STPs	59,00,000/-	15,50,000/-
2	Solid waste management	OWC	19,90,000/-	5,88,000/-
3	Landscaping	Landscaping	10,19,205/-	81536/-
4	Rain water harvesting	Rain water harvesting	20,00,00/-	20,000/-
5	Environmental Monitoring	Environmental Monitoring	-	1,82,500-/
6	Solar Hot Water System	Solar Hot Water System	6,50,000/-	6,500/-
7	Solar PV	Solar PV	16,02,400/-	1,61,000/-

SEAC-AGENDA-0000000279

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:	Proposed site is located at Kondhwa. The road network within the site has been designed to cater to the traffic loads of the project. Internal driveways are 6 m wide. Existing access road is 40 m and 18 m wide.
Parking details:	**Number and area of basement:**	2
	Number and area of podia:	NA
	Total Parking area:	15160 sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1959
	Number of 4-Wheelers as approved by competent authority:	821
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	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	8a Building and Construction Proejcts
	Court cases pending if any	NA
	Other Relevant Informations	Approx. 86,000 sqm is constructed on site as sanctions received

SEAC AGENDA-0000006279

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP remained absent. The proposal was deferred.

DECISION OF SEAC

PP remained absent. The proposal was deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Environment Clearance for "Bhalchandra Upvan" Proposed Residential & Commercial project at S. No. 15/3(P) + 15/6, Behind Balaji Temple, Near Kate Wasti, at Pandhare Wasti, Punawale, Tal.-Mulshi, Pune-411033, Maharashtra , By M/s. Samarth Chintamani Properties.

Is a Violation Case: No

1.Name of Project	"Bhalchandra Upvan"
2.Type of institution	Private
3.Name of Project Proponent	Name : Mr. Nandkumar Bhalchandra Bhondave Address : Office: 209 & 210, Ashish Plaza, Plot No. SDC-01, Sector 27A, Nr. Bhel Chowk, Akurdi, Pradhikaran, Nigadi, Pune – 411044. Mob No : 9324 532 880 Mail Id : bhalchandraupvan@gmail.com , politegroup@ymail.com
4.Name of Consultant	Mrs. Anuja Karhu. , Goldfinch Engineering System Private Limited Plot No. A-288, Road No. 16 Z, Opp. Agriculture Office Bus-stop, Thane Industrial Area, MIDC (Wagle Estate), Thane (W) – 400604, Maharashtra, India. Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Residential + Commercial
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	Survey No. 15/3(P) + 15/6, Behind Balaji Temple, Near Kate Wasti, at Pandhare Wasti, Punawale, Tal.-Mulshi, Pune-411033
9.Taluka	Mulshi
10.Village	Punawale
Correspondence Name:	Mr. Nandkumar Bhalchandra Bhondave
Room Number:	Office : 209 & 210
Floor:	2nd Floor
Building Name:	Ashish Plaza, Plot No, SDC -01
Road/Street Name:	Nr. Bhel Chowk
Locality:	Nigadi Pradhikaran
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Pimpri Chinchwad Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: IOD/IOA/Concession/Plan Approval Number : BP/EC/Punawale/12/2018
	Approved Built-up Area: 56177.88
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable
15.Total Plot Area (sq. m.)	15110.00 sq.mt.
16.Deductions	2446.83 sq.mt.
17.Net Plot area	12663.17 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 28942.77 sq.mt.
	b) Non FSI area (sq. m.): 27235.11 sq.mt.
	c) Total BUA area (sq. m.): 56177.88
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28942.77 sq.mt.
	Approved Non FSI area (sq. m.): 27235.11 sq.mt.
	Date of Approval: 05-11-2018
19.Total ground coverage (m2)	2883.65 sq.mt.

SEAC-AGENDA-0000000279

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.77 %
21.Estimated cost of the project	629000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Building (Residential + Commercial + MHADA)	B+G & P+MEZ.+12	42.2m
2	B Building	B+P+13	38.5.m
3	C Building	2B+P+13	38.5.m
4	D Building	B+P+13	38.5.m
5	E Building	B+P+14	41.30m
6	F Building	B+P+13	38.5m
7	Club house 1	G+1	6.45m
8	Club house 2	G(Sanction)+1(Prop.)	6.45m (Potential Ht.)

23.Number of tenants and shops	Tenement – 498 Nos. , MHADA – 54 Nos., Shops – 10 Nos.
24.Number of expected residents / users	Tenement – 2490 Nos. , MHADA – 270 Nos., Commercial – 144 Nos.
25.Tenant density per hectare	250/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)	Nearest fire station distance 3.1 km (Life Republic Fire Station)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	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

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	251.27
	Recycled water - Flushing (CMD):	127.79
	Recycled water - Gardening (CMD):	9.24
	Swimming pool make up (Cum):	2.5
	Total Water Requirement (CMD) :	388.30
	Fire fighting - Underground water tank(CMD):	450 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD Each Building
	Excess treated water	166.94
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	251.27
	Recycled water - Flushing (CMD):	127.79
	Recycled water - Gardening (CMD):	---
	Swimming pool make up (Cum):	---
	Total Water Requirement (CMD) :	379.07
	Fire fighting - Underground water tank(CMD):	450 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD Each Building
	Excess treated water	176.18

SEAC-AGENDA-0000000279

Details of Swimming pool (If any)	Dimension of Swimming Pool : Main Pool: 7.5 m x 3.6m x1.2m = 32.4 cub mtrs. Kids pool: NA Balancing tank : 2m x 2m x 2m = 8.0 cub mtrs. Total Water Requirement in KLD : 40.4 KLD Water requirement for make up in KLD : 2.5 KLD Details of Plant & Machinery used for treatment of Swimming pool water : Plant & Machinery: This system will have Quartz Sand Filter to trap all debris & anthracite to remove the bad odour in the pool, also Ozone based, U.V Sterilizer, TCCS based Dosing System to kill bacteria & algae present in the water. This enables water crystal clear and also avoids breeding of mosquitoes in water. Details of Quality: This swimming pool has a latest Equipments for water treatment like Totally Anticorrosive Filter with 6 way (Filter, Backwash, Rinse, Waste, Recirculate, Closed) Multiport Valve, Plastic Body Pump with Strainer, Chemical Dosing System, Ozone System for efficient filtration and to control & kill Algae and bacteria present in the water. This pool also includes Pool Basin Equipments like Inlet Nozzles, Drain Suction Nozzles, overflow Grating for efficient water circulation of treated water in the pool and as well take contaminated water to filtration and Chemical dosing system for trapping debris and kill algae and bacteria. All other pool Equipments like – Pool SS 304 Grade Ladders, Under Water Lights IP-68 Single colour, Step down transformers drivers (12 V) is provided to avoid any shocks in water with Junction boxes and complete set of Pool Cleaning are also non corrosive types to help maintain quality of water. Frequency of Monitoring: The entire Filtration system will be run daily. Details of monitoring. (Usually min. 6 Hrs everyday) and also the pool water will be chemically treated every day to maintain the water quality at above level along with the monitory of the same. Capital Cost : Approximately 6 – 8 lakhs includes only the mechanical equipments required for swimming pool as mentioned above. O & M cost : Approximately 16,000 per month x 12 = 1,92,000 per annum including chemicals required for cleaning and maintaining the pH in the pool water.

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post Monsoon : 4.0 m Pre Monsoon : 10.0 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	06 Nos
	Size of recharge pits :	Pit 2*2*2meter Bore well 0.180 meter diameter and 60 meter depth silting chamber 1*1*1
	Budgetary allocation (Capital cost) :	3.40 Lacs
	Budgetary allocation (O & M cost) :	0.3 Lacs/Year
	Details of UGT tanks if any :	Domestic Capacity (Lit) – 251.27 Cum Flushing UG Tank Capacity (Lit) : 127.79 Cum Fire Fighting Capacity (Lit) : 450 Cum

SEAC-AGENDA-0000100279

35.Storm water drainage	**Natural water drainage pattern:**	As per Drawing
	Quantity of storm water:	7.75 m3/min
	Size of SWD:	400 mm
Sewage and Waste water	**Sewage generation in KLD:**	341.16
	STP technology:	MBBR
	Capacity of STP (CMD):	1 Nos X 350 KLD
	Location & area of the STP:	As Per Drawing at 3 locations (850 sq.m)
	Budgetary allocation (Capital cost):	90.50 lacs
	Budgetary allocation (O & M cost):	11.50 lacs/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation - 17083Cum , Filling in Plinth - 17672Cum , Concrete - 23900Cum , Cement Bag - 200000Bag , Steel - 1960MT , AAC Blocks - 9800Cum , Flooring & Dado Tile - 64825Sqm , Tile Boxes - 43511Nos , Paint Container - 1630Nos.
	Disposal of the construction waste debris:	Concrete- 480Cum , Cement Bag- 200000Bag , Steel- 40MT , AAC Blocks- 198Cum , Flooring & Dado Tile- 1296.5Sqm , Tile Boxes- 43511 Nos , Paint Container- 1630 Nos.
Waste generation in the operation Phase:	**Dry waste:**	574 kg
	Wet waste:	842 kg
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	44.28 kg
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to agency Swatch
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	As Per Drawing
	Area for the storage of waste & other material:	17.5 Sq.mt
	Area for machinery:	52.5 Sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.75Lacs
	O & M cost:	5.41 Lacs

37.Effluent Charecterestics

SEAC-AGENDA-0000000279

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	300 KVA & 1 no.	HSD	1	3.5	0.1524	509

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	-	HSD	HSD
41.Source of Fuel		Authorized vendor		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	1408.09 Sq.mt.
	No of trees to be cut :	43 Nos. of trees replant
	Number of trees to be planted :	150 Nos
	List of proposed native trees :	List Mention Below
	Timeline for completion of plantation :	1 Year before completion of work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Shirish	Albizia Lebbeck	00	Shady tree, yellow green fragrant flower
2	Sita Ashok	Saraca Asoka	00	Shady tree, with red-yellow flower

SEAC-AGENDA-0000000279

3	Bahava	Cassia Fistula	12	Medium size deciduous tree . beautiful yellow flower, beautifully host plant
4	Bakul	Mimusops Elengi	30	Shady tree, small white fragrant flower
5	Parijatak	Nyctanths Arbor-Tristis	00	Small deciduous fast growing tree, beautiful flower
6	Tamhan	Lagerstroemia Flos-Regineae	20	State flower tree of maharashtra , medium size tree, beautiful purple flower
7	Apta	Bauhinia Racemosa	00	Small tree with small white flower, beautifully host plant
8	Neem	Azadirachta Indiaca	16	Semi evergreen tree with medical value
9	Supari	Areca Catechu	16	Palm, fruit bearing
10	Palas / Flame Of The Forest	Butea Monosperma	16	Medium size deciduous tree, beautiful orange flower butterfly host plant
11	Fish Tail Palm	Caryota Urens	00	Tall evergreen tree
12	Son Chafa	Michelia Champaca	12	Medium size evergreen tree , fragrant yellow flower butterfly host plant
13	Putranjiva	Putranjiva Roxburghii	00	Medium size evergreen tree
14	White Champa	Plumeria Alba	12	Medium size evergreen tree , fragrant white flower
15	Cork Tree	Millingtonia Hortensis	16	Medium size evergreen Oak 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	Allamanda	300 MM	71.44
2	Tagar	300 MM	71.44
3	Raphis Plam	450 MM	116.44
4	Heliconia Humilis	450 MM	116.44
5	Golden Duranta Topiary	450 MM	116.44
6	Bogainvillae Formosa	1.00 Mtr.	127.98

47.Energy

SEAC-AGENDA-0000000279

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	33.52 KW
	DG set as Power back-up during construction phase	1 No. x 50 KVA
	During Operation phase (Connected load):	3603 KVA
	During Operation phase (Demand load):	1415.79 KVA
	Transformer:	2 Nos. x 630 KVA + 1 No. x 315 KVA
	DG set as Power back-up during operation phase:	1 No. x 300 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Annual energy saving by using solar water heating = 82%
2. Annual energy saving by using LED fitting and timers = 54%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Annual project energy saving [Solar water heating system + Solar PV panels + Light fitting type and timer savings(For common area)]	24%

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:**	88.72Lacs
	O & M cost:	8.27Lacs

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	Dust Suppression	0.7
2	Site Sanitation, Health Check Up & Safety	Health & Safety	1.0
3	Environmental Monitoring	Air, Water, Noise Soil	0.4

b) Operation Phase (with Break-up):

SEAC-AGENDA-000000279

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, water, Noise, Soil	Post Project Environment Monitoring	0.0	0.125
2	Water	Rainwater Harvesting	3.40	0.3
3	Wastewater	Sewage Treatment Plant	90.50	11.50
4	Municipal Solid waste	Solid waste Management	25.75	5.41
5	Plantation	Landscaping	14.42	1.47
6	Energy	Energy Savings	88.72	8.27

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:	NO
Parking details:	**Number and area of basement:**	7 Nos. (Area 5174.92)
	Number and area of podia:	NA
	Total Parking area:	8825.42 Sqm
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	1134 Nos.
	Number of 4-Wheelers as approved by competent authority:	286 Nos.
	Public Transport:	Available near to site
	Width of all Internal roads (m):	6.00m

SEAC AGENDA-0000000279

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NO
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

SEAC AGENDA-0000000279

PP submitted their application for prior Environmental clearance for total plot area of 15110 m2, FSI area of 28942.77m2, Non FSI area of 27235.11m2 and total BUA of 56177.88 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Amendment & Expansion in Environmental Clearance for Hotel building "Conrad Pune" at CTS No. 2F, S.No. 468, Hissa No. A, Pune City, Mangaldas Road Proposed by M/S Palm Grove Beach Hotels Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	M/S PALM GROVE BEACH HOTELS PVT. LTD
2.Type of institution	Private
3.Name of Project Proponent	M/S PALM GROVE BEACH HOTELS PVT. LTD
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd; Dr. D. A. Patil
5.Type of project	Hotel Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment & Expansion project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Earlier EC received vide letter No. ENV-2008/CR.106/TC-1 dated 09.10.2009, Extension dated 10.11.2014
8.Location of the project	CTS No. 2F, S.No. 468, Hissa No. A, Pune City, Mangaldas Road, Pune.
9.Taluka	Pune
10.Village	Pune
Correspondence Name:	M/S PALM GROVE BEACH HOTELS PVT. LTD
Room Number:	623
Floor:	2nd Floor
Building Name:	Construction House – B
Road/Street Name:	Linking Road
Locality:	Opp Khar Telephone Exchange
City:	Khar, Mumbai - 400052
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	CC/0208/19 dated 3.05.2019
	IOD/IOA/Concession/Plan Approval Number: CC/0208/19 dated 3.05.2019
	Approved Built-up Area: 59908.74
13.Note on the initiated work (If applicable)	As of Now, Total constructed area: 59,908.74 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11,568.00 m2
16.Deductions	468.35 m2
17.Net Plot area	11,099.65 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23,601.17 m2
	b) Non FSI area (sq. m.): 38,010.00 m2
	c) Total BUA area (sq. m.): 61611.17
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 22,931.92 m2
	Approved Non FSI area (sq. m.): 36,976.82
	Date of Approval: 03-05-2019
19.Total ground coverage (m2)	3,302.46
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.75 %
21.Estimated cost of the project	400000000

22.Number of buildings & its configuration

SEAC-AGENDA-000000279

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Hotel Conrad, Pune	3 Basements + Lower Ground + Upper Ground (1st fl), Car Parking Floor, Scooter Parking Floor, 2nd to 14th Floor+ Restaurant at Teerace	77.00

23.Number of tenants and shops	Guest Rooms: 353 Nos, 4 Restaurants, Banquet Hall, Swimming Pool
24.Number of expected residents / users	2,057 Nos.
25.Tenant density per hectare	-
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project site is accessed by 24.0 m wide Mangaldas Road and 12.00 m wide Nathan Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Existing Hotel building (3 Basements + Lower Ground + Upper Ground (1st fl), Car Parking Floor, Scooter Parking Floor, 2nd to 14th Floor).
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000279

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	227
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	392
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	0
Wet season:	**Source of water**	PMC + RWH
	Fresh water (CMD):	140 + 87
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	392
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	6
Details of Swimming pool (If any)	Swimming Pool is provided	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Ground water table at depth of 10 to 12 m
	Size and no of RWH tank(s) and Quantity:	1 RWH Tank of total 200 m3 capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 46 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.3 Lakhs/year
	Details of UGT tanks if any :	Under Ground
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the plot is towards North East side
	Quantity of storm water:	The storm water generation 1,319.74 m3/hr
	Size of SWD:	450 x 450 mm internal SWD drains
Sewage and Waste water	**Sewage generation in KLD:**	272 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 300 KLD capacity
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	Rs. 69 Lakhs
	Budgetary allocation (O & M cost):	Rs. 16 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 1,800 m3
	Disposal of the construction waste debris:	The construction debris waste will be disposed as per Construction debris and demolition waste management Rule 2016
Waste generation in the operation Phase:	**Dry waste:**	212 kg/day
	Wet waste:	317 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	3 kg/day
	Others if any:	Household E-waste generation will be handed over to authorized recyclers.

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be handed over to authorized recyclers
	Wet waste:	Wet garbage will be composted and will be 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:	Household E-waste generation will be handed over to authorized recyclers
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	55.78 m2
	Area for machinery:	10.48 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14 Lakhs
	O & M cost:	Rs. 6 Lakhs/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		

SEAC-AGENDA-0000000279

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG area provided : 1,140.30 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	195 Nos.
	List of proposed native trees :	-
	Timeline for completion of plantation :	-

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	-	-	-	-
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)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	3.6 MW
	During Operation phase (Demand load):	2.0 MW
	Transformer:	2 x 2000 kVA
	DG set as Power back-up during operation phase:	3 x 1500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NIL

48.Energy saving by non-conventional method:

-

49.Detail calculations & % of saving:

SEAC-AGENDA-0000000279

Serial Number	Energy Conservation Measures	Saving %
1	• Use of Energy Efficient Pumps & Motors for firefighting, UG Tanks and STP • Energy efficient lighting fixtures (LED lights) to all buildings • Use of energy efficient lifts	> 20%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 70 Lakhs
	O & M cost:	Rs. 3.5 Lakhs/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	-	-	-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	69	16
2	Solar System	Weekly	70	3.5
3	Rainwater harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	46	2.3
4	Solid Waste Composting plant	Continuous O & M	14	6
5	Landscape	Daily	11	1
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

SEAC-AGENDA-0000000279

	Nos. of the junction to the main road & design of confluence:	The project site is accessed by 24.0 m wide Mangaldas Road.
Parking details:	**Number and area of basement:**	3 Basements with the total area:19,306.62 m2
	Number and area of podia:	NA
	Total Parking area:	7,437.00 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	Scooter parking: 1,121 Nos., Cycle parking: 594 Nos.
	Number of 4-Wheelers as approved by competent authority:	396 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	Total cost of the project is Rs. 346.20 Cr out of which cost of hotel building already constructed as per EC received is Rs. 306.20 Cr. Now, remaining cost of Rs.40 Cr is for expansion in hotel building. Therefore, we have paid the fees on cost of Rs. 40 Cr. Existing Hotel building comprises of (3 Basements + Lower Ground + Upper Ground (1st fl), Car Parking Floor, Scooter Parking Floor, 2nd to 14th Floor). Additional 43 guest rooms are proposed within existing building by converting Non-FSI area into FSI area as per latest DCR-Pune. Additional Restaurant, Pantry, Toilets are proposed on terrace floor.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

SEAC-AGENDA-0000000279

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for Expansion in earlier Environmental clearance for total plot area of 11568 m2, FSI area of 23601.17m2, Non FSI area of 38010 m2 and total BUA of 61611.17 m2.

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

SEAC-AGENDA-0000000279

DECISION OF SEAC

During discussion following points emerged:

1. In CER PP has proposed to conduct skill development program for ITI students worth Rs. 24 Lakh. Instead of this, PP to include some other activity useful for community by creating assets.

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

Specific Conditions by SEAC:

1) In CER PP has proposed to conduct skill development program for ITI students worth Rs. 24 Lakh. Instead of this, PP to include some other activity useful for community by creating assets.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed Commercial Complex at S.no. S.no. 263/1/4, 264/1A/2, 264/1B/2, 264/2A, 264/2B Hinjewadi, Pune by Vinode-Wakadkar Infrastructure.

Is a Violation Case: No

1.Name of Project	Proposed Commercial Complex at S.no. 263/1/4, 264/1A/2, 264/1B/2, 264/2A, 264/2B Hinjewadi, Pune by Vinode-Wakadkar Infrastructure.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vishal Wakadkar
4.Name of Consultant	VKe: Environmental LLP
5.Type of project	Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.no. 263/1/4, 264/1A/2, 264/1B/2, 264/2A, 264/2B Hinjewadi, Pune
9.Taluka	Mulshi
10.Village	Hinjewadi
Correspondence Name:	Mr. Vishal Wakadkar
Room Number:	Shop No.1
Floor:	Ground Floor
Building Name:	Spirea
Road/Street Name:	S.no. 91/4, Hinjewadi-Marunji Road
Locality:	Vinode Nagar, Wakad
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	17252 Sq.m
16.Deductions	4586.67 Sq.m
17.Net Plot area	12665.33 Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19862.42
	b) Non FSI area (sq. m.): 16218.69
	c) Total BUA area (sq. m.): 36081.11
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-04-2019
19.Total ground coverage (m2)	3700.83
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.22 %
21.Estimated cost of the project	400000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000279

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	One commercial Building	Basement1+Basement2+ Ground floor+Gr. Mezzanine+1st+1st Mezzanine+2nd+3rd+4th+5th+6th+7th+8th+9th+10th+11th	50.0M

23.Number of tenants and shops	Shops: 148 Food Court: 10 Restaurants: 6 Offices: 178
24.Number of expected residents / users	6502
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)	Existing 18 m road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9m
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

SEAC-AGENDA-000000279

Dry season:	**Source of water**	Grampanchayat of Hinjewadi
	Fresh water (CMD):	264
	Recycled water - Flushing (CMD):	113
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	387
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	216
Wet season:	**Source of water**	Grampanchayat of Hinjewadi
	Fresh water (CMD):	264
	Recycled water - Flushing (CMD):	113
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	377
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	226
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

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon 3.70 meter, Pre monsoon 7.0 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7 No.
	Size of recharge pits :	Pit 2*2*2 meter, Bore well 0.180 meter diameter and 60 meter depth silting chamber 1*1*1
	Budgetary allocation (Capital cost) :	4,95,000 one time
	Budgetary allocation (O & M cost) :	RS 45,000/ per year
	Details of UGT tanks if any :	Domestic: 400 m3 Fire Fighting: 200 m3
35.Storm water drainage	**Natural water drainage pattern:**	Proper storm water drainage system is proposed. Excess storm water will be discharged into Near by Nala.
	Quantity of storm water:	663.24
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	339
	STP technology:	Moving Bed Bio-Reactor MBBR
	Capacity of STP (CMD):	350 kld
	Location & area of the STP:	At Ground near OWC
	Budgetary allocation (Capital cost):	Rs. 65,00,000/-
	Budgetary allocation (O & M cost):	Rs. 6,00,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 8kg/day Wet waste (Kg/day): 12kg/day =Total waste generated: 20kg/day
	Disposal of the construction waste debris:	The construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	807
	Wet waste:	819
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	50 KG/DAY
	Others if any:	e-waste: 17.81 kg/day

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH
	Wet waste:	Will be treated in onsite OWC.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge will use as manure
	Others if any:	e-waste will be handed over to SWaCH.
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	17 Sq.m
	Area for machinery:	54 Sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25,75,000/-
	O & M cost:	Rs. 5,42,010/-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000279

43.Green Belt Development	**Total RG area :**	1266.53 Sq.M
	No of trees to be cut :	14 existing trees on site.
	Number of trees to be planted :	195
	List of proposed native trees :	Given Below
	Timeline for completion of plantation :	Till the completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul Tree	10	A large size tree with dense foliage provides shade along roads, wood is water resistant and attracts a variety of birds
2	Millingtonia hortensis	Indian Cork Tree	7	A columnar, evergreen tree, grows well in both dry and moist regions
3	Lagerstromia flos-regineae	Tamhan	19	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers, grows well in both dry and humid climate.
4	Pongamia pinnata	Karanj	10	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	Neem	18	A medium to large size hardy tree which stand in drought condition. Air purifying quality. Attain a much larger size in dry regions.
6	Cassia fistula	Bahava	18	Small deciduous tree. Excellent bright flowering, tree for arid regions.
7	Ficus benjamina	Weeping Fig	10	Medium sized evergreen tree with elegant appearance and moderate water requirement
8	Plumeria alba	Champa	15	Ornamental flowering tree
9	Michelia champaca	Sonchapha	10	Medium sized evergreen, tree, fragrant yellow flowers, Butterfly host plant.
10	Polyathia longifolia	Ashoka	27	Large evergreen tree. Effective in decreasing noise pollution.
11	Mangifera indica	Mango	13	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	22	Shady, large tree, ball shaped flowers
13	Saraca indica	Seeta Ashok	16	A small to medium evergreen tree with orange flowers.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2

SEAC-AGENDA-0000000279

1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	1 no. of 125 kVA
	During Operation phase (Connected load):	2515 KW
	During Operation phase (Demand load):	1783 KW
	Transformer:	4 Nos. of 630 KVA
	DG set as Power back-up during operation phase:	4 Nos. of 500 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Savings
Auto Timer Logic Controller 52735.20 kwh
Electronic V3F drive for Lifts 80053.26 kwh

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Auto Timer Logic Controller	52735.20 kwh
2	Electronic V3F drive for Lifts	80053.26 kwh
3	Solar PV	39000 kwh

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 21,65,000/-
	O & M cost:	Rs. 1,61,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000279

1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	16.93
2	Land	Labour Camp toilets & sanitation	4.8
3	Health and Safety	Labour Safety Equipments and training	4
4	Facility	Disinfection and Health Check-ups	0.51
5	Environment Management	Environmental Monitoring cell	1.70
6	Environment	Environmental Monitoring	1.85

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	65	6
2	Solid Waste Management	1 OWC	25.75	5.42
3	Landscaping	Development & maintenance of green area	3.98	0.31
4	Rain Water Harvesting	Recharge pits	4.95	0.45
5	Renewable Energy	Solar PV	21.65	1.21
6	Lightning Arrester	-	1.10	-
7	Environmental Monitoring	-	-	1.85

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:	Proposed site is located at Hiinjewadi near, Hinjewadi-Marunji Road. Internal driveway of 6m and turning radius of 9m will be provided.

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	2 Level
	Number and area of podia:	NA
	Total Parking area:	9001.19 Sq.m
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	608
	Number of 4-Wheelers as approved by competent authority:	488
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6.0 m wide internal road is provided and 9.0 m. Turning radius will be provided.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a building and construction project
	Court cases pending if any	NA
	Other Relevant Informations	Proposed project consists of one commercial complex with shops, Offices, Food courts and restaurants.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

SEAC AGENDA-00000000279

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 17252 m2, FSI area of 19862.42 m2, Non FSI area of 16218.69m2 and total BUA of 36081.11 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000279

During discussion following points emerged:

1. PP to submit approval from PMRDA for stack parking in first basement and puzzle parking in second basement.

2. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

3. PP to submit site specific environmental management plan.

4. PP to submit geo-hydrological report.

5. PP to submit master layout superimposing all environmental parameters.

6. PP to submit UGT sections.

7. PP to submit Garden NOC.

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

89th SEAC-3 Day 02

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Proposed residential project at S.no. 91/3 , 91/4 , 91/5 , 91/6 , 91/7 , 91/7/1 , 91/7/2 , 91/7/3 , 91/7/4 , 91/7/5 , 91/7/6 , 91/7/7 , Plot B2, Tathawade, by Rama Synergy Spaces

Is a Violation Case: No

1.Name of Project	Proposed residential project at S.no. 91/3 , 91/4 , 91/5 , 91/6 , 91/7 , 91/7/1 , 91/7/2 , 91/7/3 , 91/7/4 , 91/7/5 , 91/7/6 , 91/7/7 , Plot B2, Tathawade, by Rama Synergy Spaces
2.Type of institution	Private
3.Name of Project Proponent	Jitendra Panjabi
4.Name of Consultant	Vke:environmental, Pune
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.no. 91/3 , 91/4 , 91/5 , 91/6 , 91/7 , 91/7/1 , 91/7/2 , 91/7/3 , 91/7/4 , 91/7/5 , 91/7/6 , 91/7/7 , Plot B2, Tathawade
9.Taluka	Mulshi
10.Village	Tathawade
Correspondence Name:	Jitendra Panjabi
Room Number:	501
Floor:	10th
Building Name:	Rama Equator
Road/Street Name:	Morwadi Chowk
Locality:	Pimpri
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	Under Process
	IOD/IOA/Concession/Plan Approval Number: Under Process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	20805 sq.m
16.Deductions	Road widening-4247 sq.m
17.Net Plot area	16558 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 33635.14 sq.m
	b) Non FSI area (sq. m.): 41895.24 sq.m
	c) Total BUA area (sq. m.): 75530.38
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 01-04-2019
19.Total ground coverage (m2)	2980.44
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18
21.Estimated cost of the project	1100000000

SEAC-AGENDA-0000000279

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	LG+UG+11	35.95
2	B	LG+UG+11	35.95
3	C	B+LG+UG+12	35.55
4	D	B+LG+UG+12	35.55

23.Number of tenants and shops	Residential:530 Commercial Shops: 21 No.s
24.Number of expected residents / users	Residential Tenents : 2650 Commercial Tenants: 287
25.Tenant density per hectare	250 tenets/ 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)	18m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	min 9m
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

SEAC-AGENDA-000000279

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	244
	Recycled water - Flushing (CMD):	126
	Recycled water - Gardening (CMD):	14
	Swimming pool make up (Cum):	01
	Total Water Requirement (CMD) :	385
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25 per building
	Excess treated water	176
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	244
	Recycled water - Flushing (CMD):	126
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	01
	Total Water Requirement (CMD) :	371
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25 per building
	Excess treated water	190
Details of Swimming pool (If any)	Main Pool – 11.89 m x 5.49 m x1.2 m (Depth) Kids Pool – 5.49 m x 3.05 m x 0.6 m (Depth) Parameters To Be Monitored Ph- 7.0 TO 7.6 Chlorine content- 0.8 to 1 Capital Cost –Rs 20,24,000 Lakhs O & M cost –Rs.12000 /-	

SEACAGENDA-00000000279

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:**	Post monsoon water level 7.6 m bgl ,Pre monsoon water level 11.0 m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	9 nos.
	Size of recharge pits :	1m x 1m x and 1.2m below storm-water inlet level with 60 m bore well
	Budgetary allocation (Capital cost) :	9,00,000/-
	Budgetary allocation (O & M cost) :	90,000/-
	Details of UGT tanks if any :	Fire fightning 300 kld
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge & Overflow/surplus water from the recharge pit will be discharged into existing storm water chamber
	Quantity of storm water:	11.81m3/minute
	Size of SWD:	600 mm Ø
Sewage and Waste water	**Sewage generation in KLD:**	333
	STP technology:	MBBR
	Capacity of STP (CMD):	335
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	1,22,00,000
	Budgetary allocation (O & M cost):	25,00,00
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day):8kg/day Wet waste (Kg/day):12kg/day =Total waste generated: 20 kg/day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling
Waste generation in the operation Phase:	**Dry waste:**	573 kg/day
	Wet waste:	824 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	58 kg/day
	Others if any:	E- Waste- 1612 kg/yr

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH
	Wet waste:	Will be treaterd on OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge will use as manure
	Others if any:	E waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Total area- 60 sq. m
	Area for machinery:	Total area- 60 sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25,75,000
	O & M cost:	5,42,460

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000279

43.Green Belt Development	**Total RG area :**	Mandatory Open space=1655.8 sq.m
	No of trees to be cut :	Total 12 trees are exists on site out of which 4 will be transplanted and 8 will retained.
	Number of trees to be planted :	No of Trees Required- 210 Nos No. of trees Proposed- 238 {(210-12)+(4x10)}
	List of proposed native trees :	Refer below list
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Acrus Sapota	Chikku	09	Fruit bearing tree, attracts birds
2	Syzygium cumini	Jambhul	09	Fruit bearing tree, attracts birds
3	Magnifera indica	Mango	09	Fruit bearing tree, attracts birds
4	Murrya paniculata	kunti	10	Blooms throughout the year, flowers with excellent fragrance.
5	Khaya Ghandis	khaya	12	Fruit bearing tree, shady, deciduous
6	Mutingia calabura	Singapour cherry	10	Fast growing, medium sized, fruit bearing, attracts birds
7	Nyctanthesarbortristis	Prajakta	09	Fragrant flower
8	Saraca indica	Sita Ashok	10	Evergreen tree with rounded crown, hardy tree
9	Bauhinia Purpurea	Kanchan	09	Grows in less soil, draught resistant
10	Psidium gujaya	Peru	09	Fruit bearing, attracts bird
11	AcrusPhyllanthus emblica sapota	Amla	09	Medicinal properties
12	Cordia	cordia	09	Fragrant floor
13	Anthocephallus cadamba	kadamba	12	Shady, large tree, ball shaped flowers
14	Grewia tiliaefolia	Dhaman	09	Deciduous, draught resistant
15	Cassia fistula	Bahawa	10	Medium size deciduous tree. Grows in less soil or murum. Full of yellow flowers during summer season
16	Lagerstromia flos-reginae	Legerstromia	13	Medium size, grows in dry/ arid climate
17	Michelia Champaca	Son chafa	13	Medium size evergreen tree, fragrant yellow flowers
18	Ailanthus excelsa	Maharukh	09	Deciduous, quick growing shady
19	Butea monosperma	Palas	09	Used in forestations of saline and water logged regions
20	Albezzia lebbeck	Shirish	13	Quick growing, hardy, good soil binder, drought tolerant
21	Bauhinia racemosa	Apta	10	Deciduous, draught resistant

SEAC-AGENDA-0000000279

22	Azardiracta indica	Neem	14	Medicinal properties, quick growing, good air purifier
23	Pongamia pinnata	Karanj	12	It is larval host for butterflies. Nitrogen fixing plant.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	115.63 kw
	DG set as Power back-up during construction phase	1 No- 380KVA
	During Operation phase (Connected load):	3209.14 kw
	During Operation phase (Demand load):	2259.48 kw
	Transformer:	3 Nos- 630 KVA, 1 no- 315 KVa
	DG set as Power back-up during operation phase:	1 no-380 kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total Energy Saving : i.e. (11.78 % Savings) /year
Energy saving due to solar :i.e. (9.44% Savings)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	51392 KWH/annum
2	Common Lightning area	14989.33 KWH/annum
3	Energy saving in Conventional Transformer Vs Low Loss Transformer	7621.20 KWH/annum
4	Solar PV	36500 KWH/annum
5	Energy Saving by Solar Hot Water System.	262485 KWH/annum

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

SEAC-AGENDA-000000000279

Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	33,00,000/-
	O & M cost:	1,40,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	22,28,070
2	Land	Labour Camp toilets & sanitation	4,80,000
3	Health and Safety	Labour Safety Equipments and training	51,000
4	facility	Disinfection and Health Check-ups	4,00,000
5	Environment Management	Environmental Monitoring cell	1,70,000
6	Environment	Environmental Monitoring	1,82,500

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	1,22,00,000	25,00,000
2	Solid Waste Management	1 OWC	25,75,000	5,42,460
3	Landscaping	Development & maintenance of green area	12,17,000	2,82,000
4	Rain Water Harvesting	9 Recharge pits	9,00,000	90,000
5	Renewable Energy	Solar Hot water and Solar Pv	33,00,000	1,40,000
6	Environmental Monitoring	-	-	1,85,600
7	Lightning arrester cost	Linghtning arresters	9,52000	-
8	Swimming Pool Cost	Swimming pool	20,24,000	12,000

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

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

SEAC-AGENDA-0000000279

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The site is located in Tathwade Area. The development will be accessible from 18m wide service road while the internal driveways are 6 m.
Parking details:	**Number and area of basement:**	1No.-5508.07 sq.m
	Number and area of podia:	NA
	Total Parking area:	13677.28
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1114
	Number of 4-Wheelers as approved by competent authority:	283
	Public Transport:	NA
	Width of all Internal roads (m):	6.0m wide internal road is provided and 9.0 m. Turning radius will be provided.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a building and construction project
	Court cases pending if any	No
	Other Relevant Informations	The project area is in a residential zone. Proposed project consists of residential building having 530 flats and 21 shops
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

SEAC-AGENDA-0000000279

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 20805 m2, FSI area of 33635.14 m2, Non FSI area of 41895.24 m2 and total BUA of 75530.38 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000279

During discussion following points emerged:

1. PP to revise RG plan such that no plantation is proposed on periphery of STP, UGT and OWC.

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

Specific Conditions by SEAC:

1) PP to revise RG plan such that no plantation is proposed on periphery of STP, UGT and OWC.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000279

SEAC Meeting number: 89 **Meeting Date** June 12, 2019

Subject: Environment Clearance for Environment Clearance for "Selva Ridge Estate " Proposed Residential Project at S.no.46/1/A,46/1/B,46/2,46/3, 63 (P) Bavdhan,Pune, Maharashtra

Is a Violation Case: No

1.Name of Project	Marvel Selva Ridge Estate
2.Type of institution	Private
3.Name of Project Proponent	M/s. Marvel Omega Builders Pvt.Ltd.
4.Name of Consultant	Vke:Environmental
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	SEAC-2212/CR-31/TC-II Dated 03-12-2016
8.Location of the project	S.no.46/1/A,46/1/B,46/2,46/3,63(P)
9.Taluka	Mulshi
10.Village	Bavdhan
Correspondence Name:	Deepika Jalan
Room Number:	-
Floor:	6th floor
Building Name:	San Mahu Complex
Road/Street Name:	Bund Garden Road
Locality:	Opp Puna Club
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Muncipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied, 22 Feb 2019
	Approved Built-up Area: 81146.27
13.Note on the initiated work (If applicable)	Wing A-P+7, B -P+7, C -P+7, D-P+7, Villas-8
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	79886.29
16.Deductions	46708.94
17.Net Plot area	33177.35
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 49041.79
	b) Non FSI area (sq. m.): 32104.48
	c) Total BUA area (sq. m.): 81146
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 49041.79
	Approved Non FSI area (sq. m.): 32104.48
	Date of Approval: 22-02-2019
19.Total ground coverage (m2)	8028.62
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20%
21.Estimated cost of the project	1500000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000279

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	P+7	26.40
2	Wing B	P+7	26.4
3	Wing C & D	P+7	26.4
4	Wing E & F	2B+G+UG+2P+19	70.0
5	Individual Villas- 15 Nos	G+2	11.60
6	Club House	LG+UG	8.15

23.Number of tenants and shops	395 tenament & 14 shops
24.Number of expected residents / users	Residential users-1975, Commercial- 42
25.Tenant density per hectare	119.69
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest Fire station Fire Station
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	A-P+7,B-P+7,C-P+7,D-P+7, VILLAS-8
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000279

Dry season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	200
	Recycled water - Flushing (CMD):	105.00
	Recycled water - Gardening (CMD):	24.00
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	329
	Fire fighting - Underground water tank(CMD):	200.00
	Fire fighting - Overhead water tank(CMD):	150.00
	Excess treated water	130
Wet season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	200
	Recycled water - Flushing (CMD):	105
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	305
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	154
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000279

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	30 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	15
	Size of recharge pits :	1.5X1.5X1.5
	Budgetary allocation (Capital cost) :	19 Lakh
	Budgetary allocation (O & M cost) :	4 lakh/Year
	Details of UGT tanks if any :	-
35.Storm water drainage	**Natural water drainage pattern:**	As per contour slope
	Quantity of storm water:	0.88 m3/sec
	Size of SWD:	450 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	270
	STP technology:	MBBR
	Capacity of STP (CMD):	PHASE -1= 45 m3/day, PHASE-2= 240 m3/day
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	STP1-20 lakh, STP 2-59.00Lakh
	Budgetary allocation (O & M cost):	STP 1- 8.5 lakh/year, STP 2-11.57 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty cement bags, steel, sand, packaging material, Aggregates
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area
Waste generation in the operation Phase:	**Dry waste:**	516
	Wet waste:	673
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	36 kg/day
	Others if any:	Waste- Residential -0.5 kg/year per person, Commercial -1 kg/year per person

SEAC-AGENDA-0000000279

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Through Mechanical Composter (Smart OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure for gardening purpose or will be disposed off as per CPHEEO manual on sewerage
	Others if any:	E Waste-Handed over to authorized recycler for further handling & disposal purpose
Area requirement:	**Location(s):**	Locations are as per master layout
	Area for the storage of waste & other material:	21
	Area for machinery:	86
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	37 lakh
	O & M cost:	8 lakh/annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0-8.5	6.5-9.0	6.5-9.0
2	Oil & Grease	mg/l	10.00-20.00	<10	<10
3	Biological Oxigen Demand	mg/l	200-250	<10	<10
4	Chemical Oxigen Demand	mg/l	350-450	<50	<50
5	Total Suspended Solid	mg/l	150-200	<10	<10
6	Total Nitrogen	mg/l	40-50	<10	<10
7	Nitrate	mg/l	15-16	<5	<5
8	DissolvePO4	mg/l	13-15	<5	<5
9	Fecal Coliform	MPN/100 ml	10^6	Nil	Nil

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

SEAC-AGENDA-0000000279

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	320 Kva	at 100%load 70.52 ltrs/hr	1	5	0.152m	532 ºC
2	250 Kva	at 100%load 59.35 ltrs/hr	2	5	0.152m	499 ºC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	820KVA-129.87 litre/hr@100%Loading	Not applicable
41.Source of Fuel		Authorized Dealer		
42.Mode of Transportation of fuel to site		Barrels in Closed Tampo		

43.Green Belt Development	**Total RG area :**	4755.25
	No of trees to be cut :	26
	Number of trees to be planted :	415
	List of proposed native trees :	Shirish,Neem,Maharukh,Namdruk,Karanj,Sita Ashoka,Katesavar,Bahava,Bakul
	Timeline for completion of plantation :	Till the completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca ashoka	Sita Ashoka	20	Shady trees with yellow flowers
2	Butea monosperma	Palas	14	Medium sized deciduous tree,Beautiful orange flowers, Butterfly host plant
3	Bauhinia variegata	Kanchan	18	medicinal value, Drought tolerantspecies.
4	Nyctanthus arbor-tritrits	Parijatak	10	Fragrant flowers, Medicinal value
5	Plumeria rubra	Chafa	16	Ornamental plant, Fragrant flowers
6	Gmelina arborea	Shivan	15	Fast growing deciduous tree with yellow flower, medical use tree
7	Ziziphus mauritiana	Bor	11	medium-sized fruit bearing tree
8	Pongamia pinnata	Karanj	14	Medicinal value, Drought tolerant species, To control soil erosion
9	Ficus racemosa	Umber	22	Medicinal value, Edible fruits,Bird attracting species
10	Mimusops elengi	Bakul	17	sweet scented flowers, medicinal tree with edible parts
11	Manilkara zapota	Chiku	10	Medium sized Fruit Bearing Tree
12	Dalbbergia sisoo	Shisav	18	Medicinal value, Bird attracting Species

SEAC-AGENDA-0000000279

13	Annona squaosa	Sitafal	19	Medium sized Fruit Bearing Tree
14	Ailanthus excelsa	Maharukh	15	Large tree, good for roadside plantation
15	Anthosaphalus kadamba	Kadamb	16	Shady, large tree, ball shaped flowers.
16	Erythrina indica	Pangara	22	Medium sized deciduous tree. Bright scarlet flowers.
17	Murrayya paniulate	Kunti	17	Small tree, Fragrant white flowers, Butterfly host plant
18	Cupressus macrocarpa	Golden cypress	15	Ornamental plant
19	Azadirachta indica	Neem	28	Medicinal value
20	Lagestromia Flosre Genia	Tamhan	24	State flower tree of Maharashtra, Medium sized tree, beautifulpurple flowers
21	Ficus carica	Fig Tree	18	Medium sized Fruit Bearing Tree
22	MagniferaIndica	Mango	25	Large tree, Fruit Bearing Tree
23	Syzygium cumini	Jambhul	7	Fast growing evergreen trees, can live more than 100 years, fragrant flowers, edible fruits
24	Bombax ceiba	Katesavar	24	Large tree, red flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	116 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	3495 KW
	During Operation phase (Demand load):	2100 KVA
	Transformer:	(630 KVA X 3) + (315KVA X 2) NOS.
	DG set as Power back-up during operation phase:	320KVA X 1 NOS. + 250 KVA X 2 NOS.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

SEACAGENDA-0000000279

Enter Details Quantity
Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area. 81743 KWH
Energy saving using Low Loss Transformer Against Conventional Transformer 17520 KWH
Energy Saving using Solar Water Heater Against Electrical water Heater 234630 KWH
Energy Saved by Solar PV 28800 KWH
Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control 65931 KWH
Energy Saved by Using VFD for Lift against conventional drive 219730 KWH
Total Energy Saving in Project by Energy saving measures 648354 KWH

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.	35.08%
2	Energy saving using Low Loss Transformer Against Conventional Transformer	6.25%
3	Energy Saving using Solar Water Heater Against Electrical water Heater	75.34%
4	Energy Saved by Solar PV	1.19%
5	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control	42.74%
6	Energy Saved by Using VFD for Lift against convensional drive	20.00%
7	Total Energy Saving in Project by Energy saving measures	15.10%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	101 lakh
	O & M cost:	3 lakh/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression,Air & Noise Monitoring	2.50
2	Water Environment	"Tanker Water For Construction & Water Monitoring"	3.20
3	Land Environment	"Site Sanitation, mobile toilets"	0.75
4	Socio-Economic	"Disinfection- Pest Control, First Aid Facilities, Health Check Up, Personal Protective Equipment"	2.1
5	Monitoring Cell	Environmental Monitoring Cell	3.50

b) Operation Phase (with Break-up):

SEAC-ACETDA-0000000279

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Waste water treatment	79	20.07
2	Rain Water Harvesting	No of pits	19	4
3	Solid Waste Management	"Biodegradable waste treatment"	20.75	4.83
4	Landscape	"Green Belt Development "	45	6.285
5	Energy	Energy saving measures	101.00	3
6	Environmental Monitoring	"Ambient Air quality, Noise level, Exhaust from DG Set, drinking water,sewage from STP as per EP act,"	1..5	0.00

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:	Traffic generated from this project will confluent on existing 21m wide road

SEAC-AGENDA-0000000279

Parking details:	**Number and area of basement:**	02 Basement, 6262.89 sq.m
	Number and area of podia:	04,11273.2sq.m
	Total Parking area:	11636.58
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1058Nos.
	Number of 4-Wheelers as approved by competent authority:	715 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	9 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	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000279

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 79886.29 m2, FSI area of 49041.79 m2, Non FSI area of 32104.48 m2 and total BUA of 81146 m2.

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

SEAC-AGENDA-0000000279

DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain permission from Municipal Corporation for training of nalla till final disposal point.

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

Specific Conditions by SEAC:

1) PP to obtain permission from Municipal Corporation for training of nalla till final disposal point.

FINAL RECOMMENDATION

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

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Environmental Clarence for Residential cum commercial construction project

Is a Violation Case: No

1.Name of Project	Soba Optima
2.Type of institution	Private
3.Name of Project Proponent	Soba Associates
4.Name of Consultant	Pollution and Ecology Control Services - EMP Consultant only
5.Type of project	Residential cum commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Sr. No. 37/2B/2 & 37/2B/3 Wadgaon Bk., Sinhagad Road, Pune – 411041
9.Taluka	Pune
10.Village	Wadgaon Budruk
Correspondence Name:	Mr. Sahil Vivek Pradhan
Room Number:	-
Floor:	Sr. No. 681/1B+2+3/1, Shop No. 4&5
Building Name:	Soba Savera
Road/Street Name:	Bibwewadi
Locality:	Bibwewadi
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area: 39565.89
13.Note on the initiated work (If applicable)	Existing Wing A to wing F building (Existing F.S.I. - 10,504.18 and Existing non F.S.I. 8394.99)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	16200 sq.m
16.Deductions	6023.28 sq. m
17.Net Plot area	10176.72 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23408.71
	b) Non FSI area (sq. m.): 16248.18
	c) Total BUA area (sq. m.): 39565.89
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 23408.71
	Approved Non FSI area (sq. m.): 16248.18
	Date of Approval: 22-07-2016
19.Total ground coverage (m2)	10,176.72 sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	40 %
21.Estimated cost of the project	530000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A (Existing)	2P+9	27.10
2	Wing B (Existing)	2P+9	27.10
3	Wing C (Existing)	2P+9	27.10
4	Wing D (Existing)	2P+9	27.10
5	Wing E (Existing)	2P+9	27.10
6	Wing F (Existing) Commercial	Ground Floor	3.75
7	Wing G (Proposed)	B+LG+G+2P+11	41.95
8	Wing H (Proposed)	B+LG+G+2P+11	41.95
9	Wing G Commercial	Ground	4
10	Wing H Commercial	Ground	4

23.Number of tenants and shops	Residential -379 Shops - 02
24.Number of expected residents / users	Residential - 1895 nos. Commercial - 477 nos. Total - 2372
25.Tenant density per hectare	250
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00
29.Existing structure (s) if any	Wing A - Wing F Constructed
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

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	180.09
	Recycled water - Flushing (CMD):	97.20
	Recycled water - Gardening (CMD):	6.90
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	284.19
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	145.46
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	180.09
	Recycled water - Flushing (CMD):	97.20
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	277.29
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	152.36
Details of Swimming pool (If any)	Dimensions of Swimming Pool : 26ft x 18.5 ft Total water requirement in KLD : 7	

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	180.09	180.09	Not applicable	18	18	Not applicable	162	162
Gardening	Not applicable	7	7	Not applicable	7	7	Not applicable	0	0

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15-20 m below ground
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4
	Size of recharge pits :	3.0 m x 2.0 m x 1.5m
	Budgetary allocation (Capital cost) :	23,00,000
	Budgetary allocation (O & M cost) :	50,000
	Details of UGT tanks if any :	Domestic UG tank Capacity (m3) - For Existing residential Building-130 For Proposed Residential Building - 130 For Commercial building - 35 For Fire Fighting capacity (m3) - For Existing Residential Building - 150 for Proposed Residential Building - 150
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	567 m3/hr
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	250
	STP technology:	MBBR
	Capacity of STP (CMD):	1 and 260 KLD
	Location & area of the STP:	Plan Enclosed
	Budgetary allocation (Capital cost):	35,40,000
	Budgetary allocation (O & M cost):	11,56,320
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1% of raw material
	Disposal of the construction waste debris:	Excavated earth material will be used for filling material for plinth area and top soil for landscaping.
Waste generation in the operation Phase:	**Dry waste:**	451 Kg/day
	Wet waste:	616 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	7.5 Kg/day
	Others if any:	NA

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Authorized vender
	Wet waste:	organic waste converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	used as manure after owc convertor
	Others if any:	NA
Area requirement:	**Location(s):**	Plan Enclosed
	Area for the storage of waste & other material:	74 sq.m
	Area for machinery:	63 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20,75,000
	O & M cost:	4,59,324

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	6.5 - 7.5	6.5 - 8.0	Not Applicable
2	Total Suspended Solids	mg/l	-	= 10	50
3	BOD	mg/l	= 300	8	10
4	COD	mg/l	= 450	30	250
5	COD	mg/l	= 450	30	250

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

SEAC-AGENDA-0000000280

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 :**	1208.76 sq. m
	No of trees to be cut :	NA
	Number of trees to be planted :	143
	List of proposed native trees :	As Below Listed
	Timeline for completion of plantation :	1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Michelia champaca	Sonchaffa	04	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species,
2	Albizia lebek	Shirish	04	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3	Anthocephalus kadamba	Kadamb	04	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
4	Azardirachta indica	Neem	04	Medicinal value, To control soil erosion. To improve soil erosion
5	Bauhinia blackiana	Kanchanraj	04	Every part of the plant is medicinal, Drought tolerant species.
6	Butea monosperma	Palas	04	Medicinal value, Bird attracting species , To control soil erosion.
7	Cassia fistula	Bahawa	04	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
8	Pongamia pinnata	Karanj	04	Medicinal value, Drought tolerant species, To control soil erosion. Hardy plant.
9	Cordia dichotoma	Bhokar	04	Medicinal value, Edible fruits,
10	Dalbergia sissoo	Shisav	04	Medicinal value, Bird attracting species ,
11	Elaeocarpus sphaericus	Rudraksh	04	-
12	Schleichera oleosa	Kusum	04	Native species, Fragrant flowers,
13	Ficus retusa	Nandruk	06	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.

SEAC-AGENDA-0000000280

14	Phyllanthus emblica	Awala	10	Edible fruit, Medicinal value
15	Mangifera indica	Mango	10	Edible fruit, Bird attracting species.
16	Nyctanthus arbortristis	Parijatak	10	Fragrant flowers, Medicinal value,
17	Mimosups elengii	Bakul	10	Fragrant flowers, Medicinal value, To control soil erosion.
18	Ficus glomerata	Umber	10	Medicinal value, Edible fruits, Bird attracting species
19	Murraya exotica	Kamini	06	Native species, Fragrant flowers
20	Phoenix palm	Shindi	33	Fruit bearing, Drought tolerent Birds & bats eat fruits.
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	0	0

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	1884 KW
	During Operation phase (Demand load):	924 KW
	Transformer:	630 KVA - 1 nos. + 315 KVA - 1Nos.
	DG set as Power back-up during operation phase:	160 KVA - 1nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Use of LED in Parking area, lift-lobby and stair-case.
- Using Solar system in Common Area Lighting (10%). & Street/ Landscape lights with LED lamps.
- V3F drive is proposed for all lifts.
- As per MSEDCL requirements, it is recommended to use low loss Transformer. Losses for Transformer shall, in principal, comply with ECBC norms.
- Recommend to attain power factor of the installation near unity.
- Independent Energy meters for all pollution control equipments.

• Annual Savings with energy efficient equipment's is 3% to 4%

50.Detail calculations

49.Detail calculations & % of saving:

SEAC-AGENDA-0000000280

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heater	14.43 %
2	Common lighting using LED/T5/CFL	2.11 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage Generation	Not Applicable	STP
Biodegradable Waste	Not applicable	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	92.02 lacs
	O & M cost:	3.57 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	Erosion Control	Dust Suppression measures and Barricading	5.0
2	Site Safety	Nets, Barricade	2.0
3	Site Sanitation	Public Toilets	2.0
4	Disinfection and health check up	For Labors	2.0
5	Environmental Monitoring	STP, OWC	1.20

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 plan (including external discharge to ULB sewer line)	To treat Waste water	35.40	11.56
2	Solid waste management	To treat solid waste	20.75	4.59
3	Rain water harvesting (including external discharge)	To save water	23.00	0.50
4	Landscape development	to maintain greenery on site	18.37	2.94
5	Landscape development	to maintain greenery on site	18.37	2.94
6	Conventional Energy (Solar water Heater)	to save electrical energy	92.02	3.75
7	Conventional Energy (Solar water Heater)	to save electrical energy	92.02	3.75
8	Environmental Monitoring	to maintain provided environmental services	-	1.70

SEAC-AGENDA-0000000280

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:**	2 & 689.00sq. m
	Number and area of podia:	Not Applicable
	Total Parking area:	4274.68 sq. m
	Area per car:	35 sq.m
	Area per car:	35 sq.m
	Number of 2-Wheelers as approved by competent authority:	925
	Number of 4-Wheelers as approved by competent authority:	340
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not applicable

SEAC-AGENDA-0000000280

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

SEAC-AGENDA-0000000280

PP submitted their application for prior Environmental clearance for total plot area of 16200 m2, FSI area of 23408.71 m2, Non FSI area of 16248.18 m2 and total BUA of 39565.89 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Residential and Commercial Construction Project

Is a Violation Case: No

1.Name of Project	"Naren Bliss & Naren Pearl -An Amendment in EC
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh B. Bulchandani
4.Name of Consultant	Not appointed as EMP is already prepared while taking Existing EC
5.Type of project	Amendment in Environment Clearance due to change in building Configuration.(Residential and Commercial Construction Project) (original EC No. SEAC-2013/CR-477/TC-2 DATED 25.01.2016)
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Environment Clearance
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC dated 25 January 2016 SEAC-2013/CR-477/TC-2
8.Location of the project	S. No. 135, Hiss No: - 2/2B, 2/2A/1, 1/3A/1B, 1+3A/2, 1+3B, village Mundhwa, Tal. Haveli, Dist. Pune.
9.Taluka	Pune
10.Village	Magarpatta Road, Mundhwa
Correspondence Name:	Mr. Rajesh B. Bulchandani
Room Number:	211
Floor:	2nd floor
Building Name:	D, Naren Pearl building
Road/Street Name:	Magarpatta Road
Locality:	Mundhwa
City:	PUNE
11.Whether in Corporation / Municipal / other area	Pune
12.IOD/IOA/Concession/Plan Approval Number	CC No. 0926/17 dated 1/07/2017
	IOD/IOA/Concession/Plan Approval Number: Sanction No.0926/17 Dated 1/07/2017
	Approved Built-up Area: 18235.96
13.Note on the initiated work (If applicable)	As per previous EC dated 25/01/2016 SEAC -2013/CR-477/TC-2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD from Pune Municipal Corporation
15.Total Plot Area (sq. m.)	As per previous EC: 13,794.00 m2 Proposed: No Change
16.Deductions	As per previous EC: 1,645.60 m2 Proposed: No Change
17.Net Plot area	As per previous EC: 12,148.40 m2 Proposed: No Change
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** As per previous EC: 17,437.61 Proposed: 798.35 m2 Total: 18235.96
	b) Non FSI area (sq. m.): As per previous EC: 19,272.55 Proposed: 544.46 m2 Total: 19817.01
	c) Total BUA area (sq. m.): 38052.97
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 18235.96
	Approved Non FSI area (sq. m.): 19817.01
	Date of Approval: 01-07-2017
19.Total ground coverage (m2)	As per previous EC: 4,677.60 m2 Proposed No change
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	As per previous EC: 44 % Proposed No change
21.Estimated cost of the project	60000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A0	As per previous EC- P+10 Proposed -1 floor Total P+11	As per previous EC - 33.00 Proposed: 5.96 Total:38.96
2	A1	As per previous EC -P+10 Proposed -1 floor Total P+11	As per previous EC - 33.00 Proposed: 2.98 Total:35.98
3	A2	As per previous EC- P+11 Proposed -No Change Total P+11	As per previous EC: - 34.95 Proposed: No change Total 34.95
4	B1	As per previous EC- P+11 Proposed -No Change Total P+11	As per previous EC - 35.98 Proposed: No change Total : 35.98
5	A3	As per previous EC- LP+Po+11 Proposed -No Change Total LP+Po+11	As per previous EC -34.95 Proposed: No change Total 34.95
6	Commercial	As per previous EC - LB+UB+Mezz.+G+3 Proposed -No change Total- LB+UB+Mezz.+G+3	As per previous EC- 17.60 Proposed: No change Total 17.60
7	Club House	As per previous EC - G+1 Proposed -No change Total - G+1	As per previous EC - Proposed: No change Total

23.Number of tenants and shops	Tenements: As per previous EC: 207 Proposed 8 Total 215 No. of Showrooms: As per previous EC:11 Proposed No Change Total 11 No. of Offices: As per previous EC 48 Proposed No change Total 48
24.Number of expected residents / users	Residential: As per previous EC: 1035 Proposed: 40 Total 1075 Commercial: As per previous EC: 518 Proposed No change Total 518
25.Tenant density per hectare	250 Per hector as per DCR
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24.00 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Residential BuildingA0, A1, B1, A2 & A3 & Building D (Commercial Building)
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

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	As per previous EC: 101 KL Proposed -105
	Recycled water - Flushing (CMD):	As per previous EC: 63 KL Proposed -64
	Recycled water - Gardening (CMD):	As per previous EC: 7 KL Proposed- 7
	Swimming pool make up (Cum):	As per previous EC: 6 KL Proposed -6
	Total Water Requirement (CMD) :	As per previous EC: 171 KL Proposed- 176
	Fire fighting - Underground water tank(CMD):	As per previous EC: 250 KL Proposed - no change
	Fire fighting - Overhead water tank(CMD):	As per previous EC: 20000 per building Proposed -No change
	Excess treated water	As per previous EC: 77 KL Proposed - 80.00
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	As per previous EC- 101 KL Proposed -105 kl
	Recycled water - Flushing (CMD):	As per previous EC - 63 KL Proposed - 64 kl
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	As per previous EC - 6 KL Proposed - 6 kl
	Total Water Requirement (CMD) :	As per previous EC- 164 KL Proposed - 169.0 kl
	Fire fighting - Underground water tank(CMD):	As per previous EC - 250 KL Proposed - 250 kl
	Fire fighting - Overhead water tank(CMD):	As per previous EC- 20000 per building KL Proposed -
	Excess treated water	As per previous EC- 84 KL Proposed - 88 kl
Details of Swimming pool (If any)	Main Pool Size : 16.30 x 7.7 x 1.35 Baby Pool: 3.9 dia semi circular & 0.6 mt. dept Total water Requirement in KLD: 183.5 KLD Water requirement for make up in KLD: 6 KLD Details of Plant & Machinery used for treatment of Swimming pool water: As per Enclosure I	

SEAC-AGENDA-0000000280

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	164	5	169	16.4	0.5	17	148	5	153
Gardening	7	0	7	7	0	7	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 6 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	16 Nos x 1 Bore recharge pit
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	11,00,000/-
	Budgetary allocation (O & M cost) :	50,000/- p.a
	Details of UGT tanks if any :	Residential Domestic UG tank Capacity: 280 KL Flushing UG tank Capacity: 50 KL Fire UG tank Capacity: 250 KL Commercial Domestic UG tank Capacity: 26 KL Flushing UG tank Capacity: 23 KL Fire UG tank Capacity: 50 KL
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	6,188.09 m3/year
	Size of SWD:	RCC NP2 pipe from 200 mm to 300 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	152
	STP technology:	MBBR
	Capacity of STP (CMD):	155
	Location & area of the STP:	Enclosure II
	Budgetary allocation (Capital cost):	42,00,000/-
	Budgetary allocation (O & M cost):	9, 73,000 /

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	Land filling on the same site
Waste generation in the operation Phase:	**Dry waste:**	As per previous EC - 271 Kg/day Proposed - 8 kg/day Total -279 Kg/day
	Wet waste:	As per previous EC- 334 kg/day Proposed- 12 kg/day Total - 346 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	As per previous EC- 11 Kg/day Proposed- 11 kg/day
	Others if any:	NA

SEAC AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Through Authorized vendors
	Wet waste:	Mechanical composting unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Plan Enclosed
	Area for the storage of waste & other material:	54 Sq. mt.
	Area for machinery:	15 Sqmt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15,00,000/-
	O & M cost:	6,39,000/-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	1673.70
	No of trees to be cut :	NA
	Number of trees to be planted :	135
	List of proposed native trees :	As per below list
	Timeline for completion of plantation :	2 Yrs

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	Plumeria alba	Pandhara Chafa	03	Scented flower, Attract Bird & Butterflies
2	Bauhinia purpurea	Kanchan	21	Attractive Flowering, Attract butterflies
3	Thevetia peruviana	Biti	18	The plant is widely grown as an ornamental tree to adorn gardens and at religious sites for offerings. Cardiac glycoside peruvoside from yellow oleander is used medicinally for treatment of cardiac insufficiency.
4	Areca catechu	Supari	06	Medicinal value, Fruit - betel nut is a nut that mulant.
5	Cassia fistula	Bhahava	05	Medicinal value, Drought tolerant species, Very ornamental, well flowering plant, Honey bee attracting species.
6	Cordia sebestena	Bhokar	08	Attracts Butterflies
7	Mangifera Indica	Mango	08	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing
8	Eugenia jambolana	Jambhul	06	Forms of polyisoprene that are useful as natural rubbers Natural rubber is used extensively in many applications and products
9	Psidium guajava	Gauva	09	Fruit bearing tropical tree. Wind Breaker, Fixing atmospheric Nitrogen, Increase Fertility of Soil
10	Lagerstroemia speciosa	Taman	32	State Flower, attracts birds and gives shelter for birds
11	Michelia champaca	Sonchafa	19	Medicinal value, Fragrant Flowers, Butterfly larvae host plant, Bird attracting species, fast growing
45.Total quantity of plants on ground				

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

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

SEAC-AGENDA-0000000280

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	45 KW
	DG set as Power back-up during construction phase	82.5 KVA, 1No
	During Operation phase (Connected load):	1877 KW
	During Operation phase (Demand load):	965 KW
	Transformer:	630 KVA x 2 & 315 X 1
	DG set as Power back-up during operation phase:	160 KVA X 1 No
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

• Solar Water Heating Systems Will Be Done For Bathrooms.
• T5 & LED based lighting will be done in the common areas, landscape areas, signage's, Entry gates and boundary compound walls etc.
• Auto Timer Switches will be provided for Street lights, Garden lights, Parking & staircase Lights & Other Common Area Lights, for saving electrical energy.
• Water Level Controllers with Timers will be used for Water Pumps.
• To create awareness to end consumer or flat owner, for using energy efficient light fittings like T5 Lamps & LED Lights.
• Annual Savings with energy efficient equipments is 19.16 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving using advanced (LED) light fittings	47.94 KWh / day. 17497.74 KWh /Annum
2	Total Energy Saving	17497.74 KWH / Annum
3	% of Saving	Average – 19.16 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage Generation	STP	STP
Wet Garbage	OWC	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	74,62,000/-
	O & M cost:	4,13,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

SEAC-AGENDA-0000000280

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Completed	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	Sewage Treatment Plant	STP 155 KLD Residential & Commercial	42,00,000/-	9,73,000/-
2	Solid waste Management	Mechanical Composter	15,00,000/-	6,39,000/-
3	Rain water Harvesting	Internal Piping and pits	11,00,000/-	50,000/-
4	Storm water networking	To collect Rain Water	5,00,000/-	50,000/-
5	Green belt development	Tree Plantation and Landscape	27,00,000/-	1,50,000/-
6	Solar Water Heater	Energy Conservation Methods	44,00,000/-	52,000/-
7	Conventional Energy	Energy Conservation Methods	74,62,000/-	4,13,000/-
8	Swimming Pool	pool size 16.30 x 7.7 x1.35	23,85,500/-	3,24,000/-
9	Environmental Monitoring	Air and noise monitoring,soil and water analysis	--	1,60,000/-
10	Safety Training & Awareness	Fire fighting awareness	6,00,000/-	--
11	Total	--	2,48,47,500	28,11,000/-

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:	24.0M Wide DP Road on North side and West side

SEAC-AGENDA-000000280

Parking details:	**Number and area of basement:**	For Commercial D Building - 02 Basements Area= 1175.00 X2 = 2350.00 Sq.m, For A3 Building – Lower Parking Area = 2552.00 SQ.M
	Number and area of podia:	01 Number, Area=2596.00 SQ.M
	Total Parking area:	13498.60 m2
	Area per car:	25 m2 for Open & 30 m2 for Covered
	Area per car:	25 m2 for Open & 30 m2 for Covered
	Number of 2-Wheelers as approved by competent authority:	763
	Number of 4-Wheelers as approved by competent authority:	340
	Public Transport:	--
	Width of all Internal roads (m):	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	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC AGENDA-0000000280

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 13794 m2, FSI area of 18235.96 m2, Non FSI area of 19817.01 m2 and total BUA of 38052.97 m2.

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

SEAC-AGENDA-0000000280

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Proposed Residential Construction Project

Is a Violation Case: No

1.Name of Project	Goodwill Breeza
2.Type of institution	Private
3.Name of Project Proponent	Vijay Anantram Goyal
4.Name of Consultant	EMP Consultant: Oasis Environmental Foundation, accredited by NABET, the scope of consultancy is limited to prepration of environmental managment plan only. (In accordance with EIA amendment notification 3rd March 2016)
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	Survey No 14
9.Taluka	Haveli
10.Village	Dhanori
Correspondence Name:	Vijay Anantram Goyal
Room Number:	1/17
Floor:	-
Building Name:	Kumar City
Road/Street Name:	-
Locality:	Kalyani Nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied for sanction at PMC
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No construction is initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Sanctioning is in process at PMC
15.Total Plot Area (sq. m.)	11,879.63
16.Deductions	525.14
17.Net Plot area	9,651.32
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26172.12
	b) Non FSI area (sq. m.): 19,164.42
	c) Total BUA area (sq. m.): 45336
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	3,873.48
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	38%
21.Estimated cost of the project	750000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	B+G+P+14	44.90
2	B	B+G+P+14	44.90
3	C	B+G+P+14	44.90
4	D	B+G+P+14	44.90
5	E	B+G+P+14	44.90
6	F	B+G+P+13	42.05
7	G	B+G+P+13	42.05
8	H	G+10	31.80
9	club house	G+1	3.00

23.Number of tenants and shops	409 no. of tenants
24.Number of expected residents / users	2065
25.Tenant density per hectare	250/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)	12 MT
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	Nil
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	186
	Recycled water - Flushing (CMD):	92
	Recycled water - Gardening (CMD):	11
	Swimming pool make up (Cum):	39
	Total Water Requirement (CMD) :	297
	Fire fighting - Underground water tank(CMD):	800 m3
	Fire fighting - Overhead water tank(CMD):	160 m3 (20 KLD for each building)
	Excess treated water	157
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	186
	Recycled water - Flushing (CMD):	92
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	39
	Total Water Requirement (CMD) :	278
	Fire fighting - Underground water tank(CMD):	800 m3
	Fire fighting - Overhead water tank(CMD):	160 m3 (20 KLD for each building)
	Excess treated water	168
Details of Swimming pool (If any)	Swimming Pool is on first floor of club House - sizes - area requirement is -29.96 SQM Baby Pool area requirement is - 6.04 SQM	

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	186	186	Not applicable	18	18	Not applicable	168	168
Gardening	Not Applicable	19	19	Not Applicable	0	0	Not Applicable	Not Applicable	0

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	60 mt
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	6
	Size of recharge pits :	1.5 m x 1.5 m x1.5 m
	Budgetary allocation (Capital cost) :	5,90,000
	Budgetary allocation (O & M cost) :	50000/Annum
	Details of UGT tanks if any :	UGT tank details are as below :- FOR DOMESTIC Cap (m3) : 276 FOR FIRE FIGHTING Cap (m3) : 800
35.Storm water drainage	**Natural water drainage pattern:**	As per attached contour plan
	Quantity of storm water:	6307
	Size of SWD:	450 MM
Sewage and Waste water	**Sewage generation in KLD:**	260
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of STP having 260 KLD capacity
	Location & area of the STP:	152 SQM
	Budgetary allocation (Capital cost):	61 LAKH
	Budgetary allocation (O & M cost):	13 LAKH
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 Kg/Day
	Disposal of the construction waste debris:	Excavated material will be used for back filling and leveling of the plot
Waste generation in the operation Phase:	**Dry waste:**	409
	Wet waste:	614
	Hazardous waste:	NOT APPLICABLE
	Biomedical waste (If applicable):	NOT APPLICABLE
	STP Sludge (Dry sludge):	DRIED SLUDGE - 39.0 KG/D , WET SLUDGE - 3.8 KG/D
	Others if any:	NOT APPLICABLE

SEAC AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	AUTHORIZED VENDER
	Wet waste:	TREATED IN ORGANIC WASTE COMPOSTER AND OUTPUT IS USED AS MANURE
	Hazardous waste:	NOT APPLICABLE
	Biomedical waste (If applicable):	NOT APPLICABLE
	STP Sludge (Dry sludge):	USED AS MANURE
	Others if any:	NOT
Area requirement:	**Location(s):**	PLEASE REFER MASTER LAYOUT ATTACHED WITH FORM 1 AS ANNEXURE
	Area for the storage of waste & other material:	15 SQM
	Area for machinery:	60 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	21 lakh
	O & M cost:	5 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		

SEAC-AGENDA-0000000280

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	1565.42 SQM
	No of trees to be cut :	0
	Number of trees to be planted :	180
	List of proposed native trees :	Attached with form 1, 1A
	Timeline for completion of plantation :	3

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	Bahuniaracemosa	Apta	09	Every part of the plant is medicinal, Drought tolerant species.
2	Bahuniaracemosa	Apta	09	Every part of the plant is medicinal, Drought tolerant species.
3	Aeglemarmelos	Bel	08	Medicinal value ,Drought tolerant species
4	Putrnjivaroxburghii	Putrnjiva	10	Medicinal value, Drought tolerant species
5	Gmelinaarborea	Shivan	09	Medicinal value, Drought tolerant species, Bird attracting species.
6	Mimosupselengii	Bakul	08	Fragrant flowers, Medicinal value, To control soil erosion.
7	Nyctanthusarbortristis	Parijatak	11	Fragrant flowers, Medicinal value,
8	Nyctanthusarbortristis	Parijatak	11	Fragrant flowers, Medicinal value,
9	Albizialebek	Shirish	08	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
10	Cordiadichotoma	Bhokar	08	Medicinal value, Edible fruits
11	Bauhiniablackiana	Kanchanraj	05	Every part of the plant is medicinal, Drought tolerant species.
12	Ficusglomerata	Umber	04	Medicinal value, Edible fruits, Bird attracting species
13	Buteamonosperma	Palas	04	FMedicinal value, Bird attracting species , To control soil erosion.
14	Syzygiumcumini	Jamun	04	Medicinal value, Edible fruit.
15	Erythrinaindica	Pangara	07	Fragrant flowers, Drought tolerant species, Birds attracting
16	Anthocephaluskadamba	Kadamb	04	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
17	Azardirachtaindica	Neem	06	Medicinal value, To control soil erosion. To improve soil erosion

SEAC-AGENDA-0000002720

18	Dalbergiasissoo	Shisav	04	Medicinal value, Bird attracting species ,
19	Ficusarnottiana	Payar	03	Drought tolerant species, Bird attracting species. To control soil erosion
20	Bauhiniapurpurea	Gulabikanchan	04	Every part of the plant is medicinal ,Drought tolerant species.
21	Pongamiapinnata	Karanj	08	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
22	Mangiferaindica	Mango	05	Edible fruit, Bird attracting species.
23	Micheliachampaca	Sonchafa	05	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
24	Phyllanthusemblica	Awala	04	Medicinal value, To control soil erosion
25	Melia Azaradicha	Bakmneem	08	Medicinal value, Native Spc. Bird attracting
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	0	0

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	75 kw
	During Operation phase (Connected load):	2041 KW
	During Operation phase (Demand load):	1023 KW
	Transformer:	630 KVA x 2
	DG set as Power back-up during operation phase:	250 KVA
	Fuel used:	42.6 LIT / HR
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

SEAC-AGENDA-000000230

Detail calculations & % of saving:
1. Solar PV Panels : 14850 KWH / Anum
2. Timer Logic Controller : 39135 KWH / Anum
3. Electronic V3F drive for Lifts : 42477 KWH / Anum
4. Solar Water Heater : 426996 KWH / Anum
Total : 523459 KWH / Anum
Percentage of Saving : 19.43%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	SOLAR PV PANELS, TIMER LOGIC CONTROLLER, ELECTRONIC V3F DRIVE FOR LIFTS, SOLAR WATER HEATER	14850

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
RESIDENTIAL WATER WASTE WATER	STP	1 NO OF STP WITH MBBR TECH. IS PROPOSED
SOLID WASTE GENERATED FROM RESIDENTIAL	OWC MACHINE	Smart-50 machine (Capacity 200 kg/hr)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	60
	O & M cost:	2.5

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	EROSION CONTROL	WATER FOR DUST SUPPRESSION & SOIL PRESERVATION	0.4
2	SITE SAFETY	BARRICADING & NETS	0.3
3	SITE SANITATION	MOBILE TOILETS	0.8
4	DISINFECTION & HEALTH CHECK UP	FOR LABOURS	0.75
5	ENVIRONMENT MONITORING	AIR, WATER, NOISE & DG STACK	0.3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	260 KLD capacity	61	13
2	SOLID WASTE MANAGMENT	OWC machine	21	4
3	LANDSCAPING	180 trees	25	4
4	renewable energy	solar street light water heaters	60	3

SEAC-AGENDA-0000000280

5	STORM WATER NETWORKING	Internal storm water connections	31	2
6	RWH	RWH piping & 6 no of pits	5	0.12
7	ENVIRONMENTAL MONITORING	Air, water, noise, soil monitoring & six monthly compliances	-	2.60
8	SITE SAFETY TRAINING	nets, barricades, health checkup & personal protective equipment for workers	5	1

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	1 NO OF BASEMENT & AREA 5182 SQM
	Number and area of podia:	1 NO OF PODIUM & AREA 3167 SQM
	Total Parking area:	16935 SQM
	Area per car:	BASEMENT - 35 SQM, PODIUM - 30 SQM, STILT - 30 SQM
	Area per car:	BASEMENT - 35 SQM, PODIUM - 30 SQM, STILT - 30 SQM
	Number of 2-Wheelers as approved by competent authority:	910 NO OF 2 WHEELER
	Number of 4-Wheelers as approved by competent authority:	433 NO OF 4-WHEELERS
	Public Transport:	NOT REQUIRED
	Width of all Internal roads (m):	6.00 MT
	CRZ/ RRZ clearance obtain, if any:	NOT APPLICABLE

SEAC-AGENDA-0000000280

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NOT APPLICABLE
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

SEAC-AGENDA-0000000280

PP submitted their application for prior Environmental clearance for total plot area of 11879.63 m2, FSI area of 19164.42 m2, Non FSI area of m2 and total BUA of45336 m2. PP proposes 8 no of residential buildings and club house.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 80th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

???????

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for for project by M/s Adi Realties

Is a Violation Case: Yes

1.Name of Project	"Horizons At Wakad"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Dilip Bhagwani
4.Name of Consultant	Sneha Hi-Tech Products, Bangalore
5.Type of project	Residential and Commercial
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	Survey No-127/2A, 127/2B/2, 176/2/1B(Plot no. 1) ,Off Wakad –Hinjewadi Road ,
9.Taluka	Mulshi,
10.Village	Wakad,
Correspondence Name:	Mr. Jitendra Bhagwani
Room Number:	Flat No. E-701
Floor:	-
Building Name:	Park Titanium, Park Street,
Road/Street Name:	-
Locality:	Wakad,
City:	Pune
11.Whether in Corporation / Municipal / other area	PimpriChinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: BP/layout/wakad/50/2016 Date 29-03-2016
	Approved Built-up Area: 30894.26
13.Note on the initiated work (If applicable)	26878.15 m2 = (14394.90 m2) FSI + (12483.25 m2) Non-FSI
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	12365.00 m2
16.Deductions	2718.17 m2
17.Net Plot area	9646.83 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16538.00
	b) Non FSI area (sq. m.): 14356.26
	c) Total BUA area (sq. m.): 30894.26
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16538.00
	Approved Non FSI area (sq. m.): 14356.26
	Date of Approval: 29-03-2016
19.Total ground coverage (m2)	1925.45m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.57% of Total plot area (12365.00 m2) & 20% of net plot area (9646.83m2)
21.Estimated cost of the project	400000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P+11	36.00
2	Building B	P+12	39.00
3	Building C	P+12	39.00
4	Building D	P+12	39.00
5	Building E	P+12	39.00
6	Building F	G+09	30.00
7	Commercial Building	G + 1	6.00

23.Number of tenants and shops	Total Tenements - 266 Nos.(231 Existing + 35 Proposed) & Shops: 15 Nos.(9 Existing + 6 proposed)
24.Number of expected residents / users	Residential Users : 1330Nos , Commercial Users: 122 Nos. , Total Users: 1452 Nos.
25.Tenant density per hectare	215/h
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 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	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

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	198.05 m3/day (One Time)
	Recycled water - Flushing (CMD):	62.90 m3/day
	Recycled water - Gardening (CMD):	10.00 m3/day
	Swimming pool make up (Cum):	3 m3/day
	Total Water Requirement (CMD) :	125.15 m3/day
	Fire fighting - Underground water tank(CMD):	150 m3
	Fire fighting - Overhead water tank(CMD):	60 m3
	Excess treated water	93.63 m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	188.05 m3/day (One Time)
	Recycled water - Flushing (CMD):	62.90 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	3 m3/day
	Total Water Requirement (CMD) :	125.15 m3/day
	Fire fighting - Underground water tank(CMD):	150 m3
	Fire fighting - Overhead water tank(CMD):	60 m3
	Excess treated water	103.63 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: • Main pool- 14.1m x 6m x 1.2 m • Kids pool- 3.1m x 2.8m x 0.6m Total water Requirement in KLD:112.0 m3 (one time) Water requirement in KLD:3 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored: • Capital cost :Rs. 38.00 Lakh • O & M Cost : Rs. 5.16Lakh/Year	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 13.00 m. to 17.33 m. BGL., Rainy Season – 5.67 m. to 8.00 BGL., Winter Season – 9.34 m. to 12.67 m. BGL.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	9 Nos.
	Size of recharge pits :	1.0 X 1.0 X 1.0 M. Depth and 60 m. deep bore well.
	Budgetary allocation (Capital cost) :	Rs. 18.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.50 Lakh/year.
	Details of UGT tanks if any :	Residential & Commercial: Domestic UG tank Capacity :141m3 Flushing UG tank Capacity :102m3 Fire UG tank Capacity : 150 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	10.44 m3/Hrs
	Size of SWD:	450 mmDia pipe
Sewage and Waste water	**Sewage generation in KLD:**	166.53 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	180 m3/day- 1 No.
	Location & area of the STP:	40.38 m2
	Budgetary allocation (Capital cost):	Rs. 55.00 Lakh
	Budgetary allocation (O & M cost):	Rs. 9.50 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total Excavation :6296.4 CU.M Scarp steel apperox.30 ton
	Disposal of the construction waste debris:	filling plinths,road works and leveling of surrounding areas .Excavated rock material will be used for compound , road work and retaining wall structures required to be construct inside project.
Waste generation in the operation Phase:	**Dry waste:**	246.15 Kg/day
	Wet waste:	385.75 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	14.98 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Authorized vendor
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	29.80 m2 including machinary area.
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.13.00 Lakh
	O & M cost:	Rs. 2.24 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	125 KVA x 1 No.	19 lit./hr	S-1	4.5 Mtr.	As Per Norms	As Per Norms

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	19 lit./hr	NA	19 lit./hr
41.Source of Fuel		Bharat Petroleum Corporation Ltd/ Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	1072.0 m2 (On Ground) i.e 11.11% of net plot area &A 1517.64 m2 (On covered parking slab)
	No of trees to be cut :	NA
	Number of trees to be planted :	198No.
	List of proposed native trees :	198No.
	Timeline for completion of plantation :	Before completion of proposed building

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	16	Medicinal value, To control soil erosion.To improve soil erosion
2	Bauhinia racemosa	Apta	10	Every part of the plant is medicinal,Drought tolerant species.
3	Caryota urens	Fishtail palm	08	Grown in any type of soil.Very Hardy.
4	Citrus species	Lemon	08	Medicinal value,Edible fruit.
5	Dalbergia sisoo	Shisav	12	Medicinal value,Bird attracting species ,
6	Erythrina indica	Pangara	08	Fragrant flowers,Drought tolerant species,Birds attracting
7	Gmelina arborea	Shivan	08	Medicinal value,Drought tolerant species,Bird attracting species.
8	Mimosups elengii	Bakul	08	Fragrant flowers,Medicinalvalue,To control soil erosion.
9	Murraya koengii	Kadipatta	08	Medicinal value,Edible leaves.
10	Nyctanthus arbortristis	Parijatak	08	Fragrant flowers, Medicinal value,
11	Putranjiva roxburghii	Putrnjiva	08	Medicinal value, Drought tolerant species,
12	Roystonia regia	Bottle palm	08	Ornamental plant, Medicinal value, Birds & bats eat fruits.
13	Aegle marmelos	Bel	08	Medicinal value, Drought tolerant species.
14	Ailanthus excelsa	Maharukh	08	Ailathus excelsa
15	Albizia lebek	Shirish	08	Medicinal for Skin,Fragrant flowers, To control soil erosion,Bird attracting species (Para kids eat seeds).
16	Anthocephalus kadamba	Kadamb	08	Medicinal value,To control soil erosion,Birds, squirrels, monkey eat fruits.
17	Anthocephalus kadamba	Kadamb	08	Medicinal value,To control soil erosion,Birds, squirrels, monkey eat fruits.

SEAC-AGENDA-0000001280

18	Bauhinia blackiana	Kanchanraj	08	Every part of the plant is medicinal, Drought tolerant species.
19	Bauhinia purpurea	Gulabikanchan	04	Every part of the plant is medicinal,Drought tolerant species.
20	Butea monosperma	Palas	04	Medicinal value, Bird attracting species,To control soil erosion.
21	Cassia fistula	Bahawa	04	Medicinal value,Drought tolerant species,Very ornamental,Well flowering plant,Honey bee attracting species,Host plant for Butterfly
22	Choclospermum religiosum	Sonsawar	04	Medicinal value, Native species
23	Cordia dichotoma	Bhokar	04	Medicinal value,Edible fruits,
24	Cordia dichotoma	Bhokar	04	Medicinal value,Edible fruits,
25	Ficus arnottiana	Payar	04	Drought tolerant species,Bird attracting species.To control soil erosion.
26	Ficus glomerata	Umber	04	Medicinal value,Edible fruits, Bird attracting species
27	Ficus retusa	Nandruk	04	Medicinal value,Bird attracting species,Drought tolerant species, Hardy plant.
28	Mangifera indica	Mango	04	Edible fruit,Bird attracting species.
29	Michelia champaca	Sonchaffa	04	Medicinal value,Fragrant flowers, Butterfly larvae host plant,Bird attracting species,Fast growing.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Nerium single pink	1’6”	3.80
2	Adulsa	1’6”	3.80
3	Tarwad	1’0”	3.80
4	Gavati Chaha	1’0”	3.80
5	Chitrak	1’0”	3.80
6	Variegated tagar	1’0”	3.80
7	Stachytarpheta Blue	1’0”	3.80
8	Stachytarpheta Red	1’0”	3.80
9	Ratrani	-	3.80
10	Shrimp plant red	1’0”	3.80
11	Mogra	1’0”	3.80
12	Sontakka	1’0”	3.80
13	Powder puff dwarf	1’6”	3.80
14	Cassica biflora	1’0”	3.80
15	Ficus black	2’0”	3.80
16	Ficus starlight	2’0”	3.80
17	Alpinia yellow varigated	1’0”	3.80

SEAC-AGENDA-0000000220

18	Euphorbia	1’6”	3.80
19	Kodia Yellow	1’0”	3.80
20	Heliconia orange upright	1’0”	3.80
21	Acalpha marble pink	1’0”	3.80
22	Kamini	2’0”	3.80
23	Allamanda miniature	1’0”	3.80
24	Hibiscus white regular	2’0”	3.80
25	Shankasur	2’0”	3.80
26	Ixora deep red	2’0”	3.80
27	Lagestromia indica	1’6”	3.80
28	Tantani	1’0”	3.80
29	Tagar blue	1’0”	3.80
30	Canara bush	1’0”	3.80
31	Nirgudi	1’0”	3.80
32	Sagargota	2’0”	3.80
33	Ber	2’0”	3.80
34	Takala	1’6”	3.80
35	Krushna kamal	-	3.80
36	Ran Jai	1’0”	3.80

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL.
	During Construction Phase: (Demand Load)	100KW
	DG set as Power back-up during construction phase	100 KVA x 1 No
	During Operation phase (Connected load):	1850 KW
	During Operation phase (Demand load):	1290 KW
	Transformer:	630KVA x2 Nos
	DG set as Power back-up during operation phase:	125 KVA x 1No.
	Fuel used:	19 lit./hr
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

SEAC AGENDA-0000000280

Auto Timer control for external & Common lighting

Use of CFL / LED lamps in all public/ common areas.

Solar powered water heating .

Electronic V3F Drives for Elevators

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Auto Timer Logic Controller	18834 KWH / Anum
2	Electronic VVF drive for Lifts	12253 KWH / Anum
3	Solar Water heater	370272 KWH / Anum

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Barricating the site & Partly tree plantation is completed.	-
Water	STP is installed & excess treated water used for flushing & gardening.	-
Noise	Noise monitoring is done in once a fortnight. Acoustically enclosed DG set is installed.	-
Solid Waste	Wet Waste is treated in OWC. STP sludge is Used as Manure after treatment in OWC & Dry Waste is given to Authorised Vendor	-

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 50.00 Lakh
	O & M cost:	Rs. 1.60 Lakh /year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation –Mobile toilets	0.50 Lakh/Year
4	Socio-economic	Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00 Lakh/Year

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	Capacity- 180 KLD	55.00 Lakh	9.50 Lakh/year
2	RWH	Rain Water Harvesting	18.00 Lakh	0.50 Lakh/year

SEAC-AGENDA-0000000280

3	MSW	Organic Waste Convertor	13.00 Lakh	2.24 Lakh/year
4	Energy System	-	50.00 Lakh	1.60 Lakh/year
5	Landscaping	-	24.00 Lakh	3.50 Lakh/year
6	Swimming Pool	-	38.00 Lakh	5.16 Lakh/year
7	Safety Equipments	-	10.00 Lakh	2.00 Lakh/year
8	Post EC Monitoring	-	-	2.50 Lakh/year
9	Dry Waste Management	-	-	1.59 Lakh/year

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	
	Total Parking area:	8116.40 m2
	Area per car:	55.97 m2
	Area per car:	55.97 m2
	Number of 2-Wheelers as approved by competent authority:	566
	Number of 4-Wheelers as approved by competent authority:	145
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA

SEAC AGENDA-0000000280

	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	No

SEAC-AGENDA-0000000280

	Other Relevant Informations	Planning/Building permission was initially obtained to our project from Pimpri-Chinchwad Municipal Corporation vide letter dated 10th January, 2011 got proposed total Built up of 19264.44 m2 (FSI 9149.58 m2 + NON FSI 10114.86 m2). Which was later revised on March 2012, December 2012, and October, 2013. The completion certificate was also issued for the above sanction plans vide letter dated 13th December, 2012, 29th October, 2013 & 7th January, 2017. Then the last amended plans on 29th March, 2016 for proposed total built up area of 30894.26 m2(FSI 16538.00 m2 + NON FSI 14356.26 m2) was issued. We have carried out construction of total built up 26878.15 m2 (FSI area 14394.90 m2 + NON FSI area 12483.25 m2) on site. And received completion certificate for the same from local authority. We have submitted application for Environmental Clearance to Department of Environment, Government of Maharashtra, Mumbai on 08/02/2012. Then SEAC Committee has considered our project in its 5th SEAC III meeting held on 25/02/2014. After detail deliberation SEAC III noted that the we have initiated the construction work without obtaining the Prior environmental clearance and decided to refer our proposal to Environment Department, GoM to verify the issue of violation and to take necessary action as per MoEF OM dated 12th December,2012. Then we have received Show Cause Notice dated 09/04/2014 from Department of Environment, Government of Maharashtra, Mumbai and we have submitted reply to Show Cause Notice on 05/05/2014. The personal hearing was extended on 03/12/2014 at Department of Environment, Government of Maharashtra, Mumbai and as per Directions of Department of Environment, Government of Maharashtra, Mumbai dated 01/01/2015. Maharashtra Pollution Control Board, Mumbai has filled Criminal Case against us in Chief Judicial Magistrate Court, Pune Vide Case No. 1184/2015. Then our project has been appraised in 32nd SEAC III meeting held on 24/08/2015. During meeting committee had asked to commission STP within 2 months & submit affidavit in this regard. Then we have submitted compliance on 19/01/2016. Then our project has been appraised in 42nd SEAC III meeting held on 10/02/2016. During meeting committee decided to refer our case to SEIAA to obtain separate report from competent authority to reach their conclusion on STP matter. Then we have submitted compliance on 16/03/2016. Then our project has been appraised in 103rd SEIAA meeting held on 27/06/2016. During meeting SEIAA decided to refer back the case to SEAC-III for reconsideration as we had commissioned the STP and now it was in operation. Then our project has been appraised in 53rd SEAC III meeting held on 07/09/2016. During meeting committee decided to conduct site visit for verification of STP commissioned on site. Then committee visited our site on 27/09/2016 & they found STP is in operation. Then our project has been appraised in 56th SEAC III meeting held on 15/10/2016. During meeting committee decided to RECOMMEND the proposal for prior Environmental Clearance. Then As per MoEF & CC notification dated 14/03/2017 we have applied for grant of ToR to MoEF & CC on 03/08/2017. Then our project has been appraised in 4th EAC meeting held on 20/02/2018. During meeting committee decided to grant us ToR. With reference to the Judgment of the Court of Chief Judicial Magistrate, Pune we would like to inform you that the case filed against us is closed on 22/05/2018. Then we have received ToR letter on 22/06/2018 prescribing the EIA & EMP.

SEAC-AGENDA-0000000280

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	03-08-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

SEAC-AGENDA-0000000280

PP submitted their application for prior Environmental clearance for total plot area of 12365 m2, FSI area of 16538 m2, Non FSI area of 14356.26 m2 and total BUA of 30894.26 m2.

The PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018. PP has carried out 26878.15 m2 construction work at site.

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

DECISION OF SEAC

During discussion following points emerged:

1. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1,40,00,000/-. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 5,20,000/- which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.4 Crore for the project completion period.

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

Specific Conditions by SEAC:

1) The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1,40,00,000/-. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 5,20,000/- which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.4 Crore for the project completion period.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Expansion of Residential construction project Ishanya by Mahanagar Realty

Is a Violation Case: No

1.Name of Project	Ishanya
2.Type of institution	Private
3.Name of Project Proponent	Mahanagar Realty
4.Name of Consultant	Not yet appointed
5.Type of project	Housing 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, Environmental clearance obtained vide no. SEAC-2011/ C.R. 44/TC-2 dated 22nd March 2013
8.Location of the project	CTS No. 373 (pt), 375,376,377(pt), 378 (pt), S.No. 19A/3A, Dhankawadi, Satara Road, Pune-411043
9.Taluka	Haveli
10.Village	Dhankawadi
Correspondence Name:	Swaran Singh Sohal
Room Number:	0
Floor:	6
Building Name:	San Mahu Complex
Road/Street Name:	Poona Club road
Locality:	Camp
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number:
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	construction is completed as per previous EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23734
16.Deductions	3985.9
17.Net Plot area	19748.10
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 49993.85 sq.m
	b) Non FSI area (sq. m.): 65411.66 sq.m.
	c) Total BUA area (sq. m.): 115406
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 31514.91
	Approved Non FSI area (sq. m.): 40664.39
	Date of Approval: 20-07-2017
19.Total ground coverage (m2)	9240
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	48.5
21.Estimated cost of the project	2620400000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A (1)	3B +P +21	69.70
2	B (1)	3 B + P + 21	70
3	C (1)	3 B + P + 21	70
4	D (1)	1 B + G + Mezz +5 P + 29	99.99
5	Commercial at D building	G + mezz	6
6	community prayer hall	G	9

23.Number of tenants and shops	495 + 8 shops
24.Number of expected residents / users	Residential – 2475 Commercial - 140
25.Tenant density per hectare	250 T/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)	60
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9
29.Existing structure (s) if any	Residential building: 03 , Commercial building: 01
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

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	232
	Recycled water - Flushing (CMD):	116
	Recycled water - Gardening (CMD):	58
	Swimming pool make up (Cum):	6
	Total Water Requirement (CMD) :	406
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25 kl/bldg
	Excess treated water	139
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	232
	Recycled water - Flushing (CMD):	116
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	6
	Total Water Requirement (CMD) :	348
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25 KL/bldg
	Excess treated water	197
Details of Swimming pool (If any)	Dimension of Swimming Pool: Main Pool Size:18 mX 7M Baby Pool size: 4 m X 7m Total water Requirement in KLD: 168 Water requirement for make up in KLD: 6 Details of Plant& Machinery used for treatment of Swimming pool water: Filter, Self Priming pump, Control panel for pump, Hair and lint strainer, S/F main drain in white ABS, S/F vacuum point in white ABS, S/F inlet point in white ABS, overflow grating.	

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	232	232	Not applicable	23	23	Not applicable	209	209

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon: 10 m BGL Post monsoon : 3-5 BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	15
	Size of recharge pits :	2.0 m x 0.90 m x 2.0 m
	Budgetary allocation (Capital cost) :	11.25/- lakhs
	Budgetary allocation (O & M cost) :	1.0 /- lakh p.a.
	Details of UGT tanks if any :	Domestic UG tank Capacity: 371.40 KLD Fire UG tank Capacity: 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	23.86 m3/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	313
	STP technology:	FAB & MBBR
	Capacity of STP (CMD):	2 STPS 150 KLD + 210 KLD
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	94 /- lakhs
	Budgetary allocation (O & M cost):	18 /- lakhs p.a.
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 % of raw material
	Disposal of the construction waste debris:	On the same site as filling material
Waste generation in the operation Phase:	**Dry waste:**	479 kg/day
	Wet waste:	700 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	19
	Others if any:	E waste : 500 kg/year

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Mechanical composting unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Through mechanical composting unit
	Others if any:	E waste: Through authorized vendor
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	24 sqm
	Area for machinery:	20 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25 /- lakhs
	O & M cost:	12.26 /- lakhs p.a.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	7 - 8.5	6.5 - 7.5	NA
2	COD	mg/l	300 - 400	<30	Not exceed 100 mg/l
3	BOD	mg/l	250- 300	<10	Not exceed 10 mg/l
4	S.S.	mg/l	350 -450	<5	Not exceed 50 mg/l
5	Oil & grease	mg/l	10	<5	NA
6	TDS	mg/l	NA	<1000	Not applicable
7	Total Nitrogen	mg/l	40-50	< or equal to 10	Not applicable
8	Ammonical nitrogen as nitrogen	mg/l	Not applicable	< or equal to 1	Not applicable
9	Total phosphate	mg/l	5 -7	< or equal to 2	Not applicable
10	Feacal Coliform	MPN/100 ml	10000000	ND	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

SEAC-AGENDA-000000280

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 :**	2760.90 sqm
	No of trees to be cut :	16
	Number of trees to be planted :	381
	List of proposed native trees :	As per list
	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	Astonia scholaris	Saptparni	80	Native, Evergreen
2	Azadirachta indica	Neem	42	Native, Medicinal value, To control soil erosion
3	Bauhinia purpurea	Kanchan	27	Every part of plant is medicinal, Drought tolerant species
4	Lagerstomia flosreginae	Taman	37	Native, Medicinal value, To control soil erosion
5	Michelia Champaca	Son chapha	77	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing
6	Dalbergia sissoo	Shisum	98	Native, flowering
7	Mimosops elengi	Bakul	70	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Allamanda nerifolia Nana	Not applicable	Not applicable
2	Canna generalis hybrid red	Not applicable	Not applicable
3	Agave angustifolia 'Variegata'	Not applicable	Not applicable
4	Nerium olender roseum Dwarf	Not applicable	Not applicable

SEAC-AGENDA-0000000280

5	Leucophyllum frutescence	Not applicable	Not applicable
6	Murraya exotica	Not applicable	Not applicable
7	Tabernaemontana coronaria 'variegata'	Not applicable	Not applicable
8	Tabernaemontana coronaria 'Mini'	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	45 KW
	DG set as Power back-up during construction phase	62.5 KVA (1)
	During Operation phase (Connected load):	5092 KVA
	During Operation phase (Demand load):	2367 KVA
	Transformer:	630 KVA X 6
	DG set as Power back-up during operation phase:	400 KVA X 1 No.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar Water Heating Systems
• LED based lighting will be done in the common areas, landscape areas, signage's, Entry Gates and boundary compound walls etc.
• Auto timer switches will be provided for street lights, Garden lights, Parking & staircase lights & other Common area Lights for saving electrical energy.
• Water Level Controllers with timers will be used for water pumps.
• Overall Energy Saving is: Approx. 25%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamps	28835 KWH / Annum
2	Solar Water heater	180675 KWH / Annum

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water pollution	Not applicable	STP
Noise Pollution due to DG set	Not applicable	Acoustic enclouser and canopy

SEAC-AGENDA-0000000280

Solid waste	Not applicable	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	124 /- lakhs
	O & M cost:	7.9 /- lakhs p.a.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion control	Dust suppression measures	1.8
2	Site safety	Net, PPE to labours, Sigh boards, etc	2
3	Site sanitation	Mobile toilets, and solid waste management	2
4	Disinfection and health check up	Medical camp	2.4
5	Environmental monitoring	Air, water , noise and soil monitoring and analysis	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	STP	Two STP of FAB and MBBR technology	94	18
2	Rain Water Harvesting	Pits with bore and internal piping	11.25	1
3	Solid waste managment	OWC installation	25	12.26
4	Landscape	Plantation	64	3.70
5	Energy	Energy conservation measures	124	7.9
6	Environmental monitoring	air, water, soil, noise monitoring and analysis	0	1.60
7	Safety training and awareness	training to residence	9	0
8	Water tanker in case of water shortage	water tanker	0	1.50

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

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

SEAC-AGENDA-0000000280

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:**	23636.87 sqm (3)
	Number and area of podia:	12195.73 sqm (5)
	Total Parking area:	35832.60 sq.m.
	Area per car:	35m2 and 30 m2
	Area per car:	35m2 and 30 m2
	Number of 2-Wheelers as approved by competent authority:	1071
	Number of 4-Wheelers as approved by competent authority:	1072
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.

SEAC AGENDA-0000000280

Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 23734 m2, FSI area of 49993.85m2, Non FSI area of 65411.66 m2 and total BUA of 115406 m2.

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

SEAC-AGENDA-0000000280

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for "Center for Perfect Health" by Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd at Wahangaon, Pune, Maharashtra

Is a Violation Case: No

1.Name of Project	"Center for Perfect Health" by Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd - Mr. Giridhari Shriniwas Kale
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Integrated Project of Tourism, Health, Education & Ayurveda Industry.
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	Gat No.57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 70, 71, 72, 73,79, 81, 82, 83, 100, 2, 77, 78, 99, 80, 105, 55, 56, 1, 318, 326, 328, 345, 347, 363, 369, 364, 367, 344, 88, 84, 317, 320, 348, 368, 369, 68,69,75, Village Wahangaon, Tal: Maval, Dist: Pune.
9.Taluka	Maval
10.Village	Wahangaon
Correspondence Name:	Mr. Giridhari Shriniwas Kale
Room Number:	C-10, Abhimanshree Society, Pashan Road, Baner , Pune-411007
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	-
City:	-
11.Whether in Corporation / Municipal / other area	Integrated Industrial Area (Wahangaon Grampanchayat)
12.IOD/IOA/Concession/Plan Approval Number	Under process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 162577
13.Note on the initiated work (If applicable)	Work not initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Under process
15.Total Plot Area (sq. m.)	7,36,200 m2 (73.62 Ha.)
16.Deductions	1,31,889 m2
17.Net Plot area	6,04,311 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,62,577 m2
	b) Non FSI area (sq. m.): 4,066 m2
	c) Total BUA area (sq. m.): 166643
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 28-12-2018
19.Total ground coverage (m2)	88,026 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12%
21.Estimated cost of the project	4500000000

SEAC-AGENDA-0000000280

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Security Cabin (6 Nos.)	Ground	4
2	Factory building (3 wings)	Ground	10
3	Private University	-	-
4	a. Admin	-	-
5	b. College	-	-
6	c. Nursing College	-	-
7	d. Hostel (Boys & Girls)	-	-
8	e. Mess	-	-
9	Ayurveda College & Hospital (100 Beds)	Ground + 4	25
10	a. Doctor's & Staff apartment	Ground + 1	10
11	b. Recovery Villas Type 2 (OPD)	Ground + 1	10
12	50 Rooms Hotel (2 Wings)	Ground + 2	15
13	Veda Research Centre	-	-
14	a. Pandit Mess	Ground	8
15	b. Pandit Residence (12 Nos.)	Ground + 1	10
16	Apartment (9 Nos.)	Ground + 2	15
17	Japa Hall (4 Nos.)	Ground	5
18	Pandit Yagya Shala (19 Nos.)	Ground	5
19	VIP Residence (2 Nos.)	Ground + 1	10
20	Meditation Hall	Ground	8
21	Toilets for Veda Research Centre	Ground	4
22	Pandit Laundry	Ground	4
23	Administration Building	Ground + 8	40
24	East Gate	Ground	10
25	Shopping Market	Ground	15
26	Traditional Village Market	Ground	6
27	Big Hall	Ground	15
28	Restaurant for market	Ground	15
29	Invincibility Tower	Ground + 11	60
30	Vedic Theme Park (64 nos.)	Ground	7
31	Mountains (Only decorative part)	Ground	25
32	Wedding Hotel	Ground + 2	15
33	Wedding Space	Ground	10
34	Banquet Hall	Basement + Ground	25
35	Organic Restaurant	Ground	6
36	Hotel (146 rooms)	Basement + Ground + 3	32
37	40 Rooms Hotel	Ground	8
38	30 Rooms Hotel	Ground	8
39	Treatment Rooms Cluster (5 Nos.)	Ground	8
40	Fitness club	Ground	6

SEAC-AGENDA-0000000280

41	Kala shala (7 Nos.)	Ground	5
42	Public toilets (3 Nos.)	Ground	5
43	Villas (177 Nos.)	-	-
44	a. Villa Type 1 (26 Nos.)	Ground + 1	15
45	b. Villa Type 2 (36 Nos.)	Ground	8
46	c. Villa Type 3 (25 Nos.)	Ground	8
47	d. Villa Type 4 (20 Nos.)	Ground	8
48	e. Villa Type 5 (7 Nos.)	Ground + 1	15
49	f. Villa Type 6 (11 Nos.)	Ground + 1	15
50	g. Villa Type 7 (40 Nos.)	Ground + 1	15
51	h. Villa Type 8 (12 Nos.)	Ground	8

23.Number of tenants and shops	No. of shops – 1 Restaurant (Multi Casinos)
24.Number of expected residents / users	Total Population -3,784 nos. (Permanent population-998 nos. + floating population – 2786 nos.)
25.Tenant density per hectare	62 nos./ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 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	Farm house bungalow, Labour camp & RWH tank
30.Details of the demolition with disposal (If applicable)	Only Labour camp which is a temporary structure, will be demolished. Construction debris will be reused in Project.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	1. Ayurvedic medicines	Not applicable	1200	1200
2	2. Aroma oils and Treatment Oils	Not applicable	100	100
3	3. Food supplements	Not applicable	1000	1000
4	4. Vedic Honey	Not applicable	250	250
5	5. Organic Food Processing	Not applicable	1000	1000
6	6. Organic Cosmetics	Not applicable	250	250

SEAC-AGENDA-0000000280

7	7. Organic Cloth Stitching	Not applicable	-	-
8	8. Cow dairy products	Not applicable	75	75

32.Total Water Requirement

Dry season:	**Source of water**	Thokarwadi Dam
	Fresh water (CMD):	306 m3/day
	Recycled water - Flushing (CMD):	118 m3/day
	Recycled water - Gardening (CMD):	206 m3/day
	Swimming pool make up (Cum):	5 m3 (Make up water)
	Total Water Requirement (CMD) :	429 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	5 m3 (On top of each RCC construction bldg.)
	Excess treated water	Will be used for landscape
Wet season:	**Source of water**	Thokarwadi Dam
	Fresh water (CMD):	306 m3/day
	Recycled water - Flushing (CMD):	118 m3/day
	Recycled water - Gardening (CMD):	103 m3/day
	Swimming pool make up (Cum):	5 m3 (Make up water)
	Total Water Requirement (CMD) :	429 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	5 m3 (On top of each RCC construction bldg.)
	Excess treated water	Will be used for landscape
Details of Swimming pool (If any)	1 No. for fitness club Dimensions of swimming pool – 25 m x 15 m (1.5 m depth) Make up water requirement – 5 m3	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	Not applicable	200	200	Not applicable	24	24	Not applicable	176	176

SEAC AGENDA-00000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 m BGL
	Size and no of RWH tank(s) and Quantity:	1 no. x 200 m3
	Location of the RWH tank(s):	As per layout
	Quantity of recharge pits:	33 nos. (as per 1 pit for 5,000 m2 of built up area)
	Size of recharge pits :	2.5 m x 2.5 m x 3 m depth
	Budgetary allocation (Capital cost) :	Rs. 25 Lakh
	Budgetary allocation (O & M cost) :	Rs. 2 Lakh/year
	Details of UGT tanks if any :	2 x 200 m3 for Fire & drinking water
35.Storm water drainage	**Natural water drainage pattern:**	Along with contour
	Quantity of storm water:	1.5 m3/sec
	Size of SWD:	300 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	Total 185 m3/day (Excluding Hospital)
	STP technology:	MBBR
	Capacity of STP (CMD):	Total 200 m3/day
	Location & area of the STP:	As per contour
	Budgetary allocation (Capital cost):	Rs. 50 Lakh
	Budgetary allocation (O & M cost):	Rs. 5 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	64,852 m3 Mostly Biomass, Agro waste and Bio-degradable
	Disposal of the construction waste debris:	Will be used for backfilling & landscaping purpose.
Waste generation in the operation Phase:	**Dry waste:**	350 kg/day
	Wet waste:	525 kg/day
	Hazardous waste:	9 kg/day (ETP sludge)
	Biomedical waste (If applicable):	35 kg/day
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized vendor for further processing
	Wet waste:	Treated in organic waste composting machine
	Hazardous waste:	Handed over to CPCB authorized vendor for further processing
	Biomedical waste (If applicable):	Handed over to CPCB authorized vendor for further processing
	STP Sludge (Dry sludge):	Used for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	2 locations, 2 nos. of OWC machines with total capacity 600 kg/day
	Area for the storage of waste & other material:	Total area 120 m2 (50 m2 & 70 m2)
	Area for machinery:	25 m2 for each machine
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 15 Lakh
	O & M cost:	Rs. 3 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.85	6.5-7.5	6.5-7.5
2	COD	mg/l	12000	<250	<250
3	BOD, 3 days @ 270c	mg/l	3000	<30	<30
4	Suspended solids	mg/l	1500	<100	<100
5	Oil & grease	mg/l	150	Nil	Nil

Amount of effluent generation (CMD):	Total 176 m3/day (From Ayurvedic Hospital, Hotel & factory building)
Capacity of the ETP:	Total 200 m3/day
Amount of treated effluent recycled :	172 m3/day
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Chemical coagulation with sedimentation and disinfection with UV (MBBR with Zero liquid discharge)
Disposal of the ETP sludge	Treated into sludge drying bed & disposal to common hazardous treatment unit

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	2.2	Kg/day	Not applicable	9	9	Handed cover to CPCB authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Drugs/ Neurtaceiticalls (Ayurvedic aroma oils, foods supplements, organic foods)	Furnace oil/LPG – 200 MT/month	1	30 m	Top 1500 mm	30o c

SEAC-AGENDA-000000280

2	Cow and Dairy products/ Honey, cosmetics	Wood- 600 MT/month	2	30 m	Top 1500 mm	30o c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil /LPG	Not applicable	200 MT/month	200 MT/month
2	Wood	Not applicable	600 MT/month	600 MT/month
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Road Transport		

43.Green Belt Development	**Total RG area :**	67,189 m2
	No of trees to be cut :	120 Nos.
	Number of trees to be planted :	The project proposes to plant large plantation of Trees with medicinal value. Partial list enclosed.
	List of proposed native trees :	Large plantation is being made for manufacture of ayurvedic medicines & oils
	Timeline for completion of plantation :	Large no. of trees are present at site which are more than required as per norms. Tree land scaping and additional plantation if any will be completed within 12 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	Existing Trees	-	-	-
2	psidium guajava	Jambhul	34	Evergreen small, fruit bearing tree
3	Artocarpus heterophyllus	Fanas	47	Shady, fruit bearing tree
4	Mangifera indica	Mango	3396	Large evergreen fruit bearing tree.
5	Eucalyptus	Nilgiri	13	-
6	-	Other	749	-
7	Proposed Tree	-	-	-
8	Aegle marmelos	Bel	100	Medicinal properties
9	Terminalia Chebula	Hirda	100	Medicinal properties
10	Terminalia bellarica	Behada	100	Medicinal properties
11	Syzygium cumini	Jambul	100	Evergreen palm. Medicinal and Ornamental plant
12	Terminalia arjuna	Arjun	100	Medium sized deciduous tree. Bright scarlet flowers.
13	Thevetia peruviana	Yellow Kaner	100	State flower tree of Maharashtra, Medium sized tree, has beautiful purple flowers
14	Cassia fistula	Bahava	100	Shady tree bearing white fragrant flowers.
15	Cinnamomum camphora	Karpur	100	Medium sized evergreen and shady tree having fragrant flowers
16	Litsea chinensis	Meida	100	Tall deciduous tree having medicinal properties
17	Cinnamomum tamala	Tejpatta	100	Large evergreen fruit bearing tree.

SEAC-AGENDA-0000000280

18	Commiphora wightii	Guggul	100	Small hardy tree bearing fragrant flowering with medicinal properties
19	Oroxylum indicum	Tetu	100	Small rounded deciduous tree with fragrant flowers
20	Pongamia pinnata	Karanj	100	Evergreen flowering tree.
21	Michelia champaca	Champa	100	Evergreen ornamental tree
22	Bauhinia variegata	Kanchan	100	Deciduous flowering tree
23	Azadirachta indica	Neem	100	Medicinal properties
24	Saraca asoka	Ashoka	100	Medicinal properties
25	Symplacos racemosa	Lodh/Lodhra	100	Medicinal properties
26	Putranjiva roxburgii	Putranjiva	100	Medicinal properties
27	Mesua ferrea	Nagakesar	100	Medicinal properties
28	Sterculia uren	Mowai	100	Medicinal properties
29	Butea monosperma	Dhawada	100	Medicinal properties
30	Dellenia indica	Chilta	100	Medicinal properties
31	Madhuca indica	Mahua	100	Medicinal properties
32	Emblica officinalis	Amla	100	Medicinal properties
33	Gmelina arborea	Shivan	100	Medicinal properties
34	Santalum alba	Chandan	100	Medicinal properties
35	Mimusops elangi	Bakul	100	Medicinal properties
36	Schleichera oleosa	Kusum	100	Medicinal properties
37	Alstonia scholaris	Saptaparni	100	Medicinal properties
38	Elaeocarpus ganitrus	Rudraksh	100	Medicinal properties
39	Cinnamomum zeylanicum	Dalchini	100	Medicinal properties
40	Myristica fragrans	-	100	Medicinal properties
41	Syzygium aromaticum	Laung	100	Medicinal properties
42	Ficus carica	Anjir	100	Medicinal properties
43	Acacia nilotica	Babbul	100	Medicinal properties
44	Grewia titliaefilia	Dhanvan	100	Medicinal properties
45	Tecoma undulata	Rohita	100	Medicinal properties
46	Basella alba	Poi	100	Medicinal properties
47	Abrus precatorius	Gunj	100	Medicinal properties
48	Strychnos nuxvoica	Kavi/Kuchala	100	Medicinal properties
49	Emblica offficinalis	Avala	100	Medicinal properties
50	Ficus glamorata	Umber	100	Medicinal properties
51	Syzygium cumini	Jamun	100	Medicinal properties
52	Dalbergia sissoo	Sissoo	100	Medicinal properties
53	Bambusa arundinacea	Bamboo	100	Medicinal properties
54	Ficus religiosa	Peepal	100	Medicinal properties
55	Messua ferrea	Nagachampa	100	Medicinal properties
56	Ficus bengalensis	Vad	100	Medicinal properties
57	Butea monosperma	Palas	100	Medicinal properties
58	Ficus virens	Payar	100	Medicinal properties

SEAC-AGENDA-000000280

59	Sapindus mukorrossi	Ritha	100	Medicinal properties
60	Flacourtia indica	Vahecal	100	Medicinal properties
61	Mimusops elengi	Bakul	100	Medicinal properties
62	Pinus roxburghii	Cheer	100	Medicinal properties
63	Shorea robusta	Sal	100	Medicinal properties
64	Salix tetrasperma	Salix	100	Medicinal properties
65	Artocarpus heterochyllus	Phanas	100	Medicinal properties
66	Calotropis gigantea	Rui	100	Medicinal properties
67	Prosopis cineraria	Shami	100	Medicinal properties
68	Neolamarkia cadamba	Kadamba	100	Medicinal properties
69	Mangifera indica	Mango	100	Medicinal properties
70	Premna serratifoila	Premna	100	Medicinal properties
71	Stereospermum suaveolens	Padal	100	Medicinal properties
72	Desmodium gangeticum	Salwan	100	Medicinal properties
73	Uraria picta	Pitwan	100	Medicinal properties
74	Tribulus terrestris	Meida	100	Medicinal properties
75	Semaruba glauca	Laxmitaru	100	Medicinal properties
76	Sterculia uren	Jatropha	100	Medicinal properties
77	Acacia catachu	Kadai/Kandol	100	Medicinal properties
78	Anogeissus latifolia	Khair	100	Medicinal properties
79	Dicamalli	Dhawada	100	Medicinal properties
80	Boswellia serrata	-	100	Medicinal properties
81	lennea grandis	Salai	100	Medicinal properties
82	Total	-	11,439	-
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-0000000280

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	2 nos. x 50 kW
	During Operation phase (Connected load):	10 MW
	During Operation phase (Demand load):	5 MW
	Transformer:	Total 15 MW
	DG set as Power back-up during operation phase:	Total 2 nos. x 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar Water Heating 100% hot water requirement
2. LED lights in Common area & all open spaces
3. Maximum daylight and ventilation as per ECBC norms

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED in common areas	3 %
2	Energy efficient pumps	2 %
3	Efficient envelope to reduce heat gain	3 %
4	Right glass & WWR for maximum light & ventilation	1 %
5	Solar water heater	10 %
6	Timer for staircase lightening, Lift lobby, Parking area and street light	1 %
7	Overall Energy Saving	4.5 %

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. 30 Lakh
	O & M cost:	Rs. 3 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000280

1	Air Environment	Water for dust suppression	15
2	Socio- Economic Environment	Site sanitation, Toilets, STP, safe drinking water	20
3	-	Disinfection at site	5
4	-	Health check-up for workers, first aid kit	7
5	-	Safety net	5
6	Environment management	For Air, Noise, Water Analysis	3
7	-	Site fencing &noise barrier	2
8	-	Traffic management	2
9	-	Storm water management	5
10	-	Vehicle maintenance, washing area, tyre cleaning	3
11	-	Tree plantation & water utilization	5
12	Training and awareness	Safety personal protective equipment & Training programs	5
13	Total	-	77

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	For treatment of sewage generated.	30	3
2	Effluent Treatment Plant	For treatment of effluent generated.	40	4
3	Rain Water Harvesting	33 nos. of recharge pits with 2 nos.	25	2
4	Storm Water Management	-	20	1
5	Solid Waste Management	Treatment of solid waste	15	3
6	Solid Waste Management	Treatment of solid waste	15	3
7	Energy Conservation	Solar PV cell	30	3
8	Environmental Monitoring	-	MoEF Approved Lab	5
9	Fire Fighting System	-	20	2
10	Water Treatment Plant	-	5	1
11	tOTAL	-	185	24

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

SEAC-AGENDA-0000000280

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2 Nos.
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	9860 m2
	Area per car:	25 m2
	Area per car:	25 m2
	Number of 2-Wheelers as approved by competent authority:	Scooters- 556 Nos. (Visitors-51 Nos.+ Normal -505 Nos.) Cycles- 556 Nos. (Visitors-51 Nos.+ Normal -505 Nos.)
	Number of 4-Wheelers as approved by competent authority:	301 Nos. (Visitors-27 Nos.+ Normal -274)
	Public Transport:	NA
	Width of all Internal roads (m):	9 m & 12 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(b)
	Court cases pending if any	NA
	Other Relevant Informations	NA

SEACAGENDA-00000000280

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

SEAC-AGENDA-0000000280

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 736200 m2, FSI area of 1,62,577 m2, Non FSI area of 4066 m2 and total BUA of 166643 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a)b1.

The PP was granted terms of references for carrying out environmental impact assessment studies in 81st meeting of SEAC-3. Accordingly PP has submitted EIA Report.

DECISION OF SEAC

During meeting, the Committee observed that no sectorial / field area expert was present to explain issues pertaining to Air, water, Land, Traffic, Ecology & Biodiversity, Social Impact Assessment, Solid waste management, Energy, Noise and Corporate Environmental Responsibility etc.

The Committee informed the PP to make presentation of chapters related to Air, Water, Land and Traffic in the next meeting.

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Expansion of residential construction project

Is a Violation Case: No

1.Name of Project	Atulya Raghukul
2.Type of institution	Private
3.Name of Project Proponent	Calyx Lenora Realty LLP
4.Name of Consultant	Pollution and Ecology Control Services
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC vide no. SEAC III 2014/C.R.74/TC-3
8.Location of the project	Sr.no. 155/1, 155/2/1/1, 157/2/2, Atulya Raghukul, near R.K.L Galaxy International School, Dighi Alandi airport road, Village:-Wadmukhwadi, Taluka:- Haveli, Dist:- Pune-412105.
9.Taluka	Haveli
10.Village	Wadmukhwadi
Correspondence Name:	Mr. Nitin Jajoo
Room Number:	NA
Floor:	NA
Building Name:	Calyx House;millennium star ext. building
Road/Street Name:	Dhole Patil Road
Locality:	Camp
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number:
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA applicable
15.Total Plot Area (sq. m.)	29000
16.Deductions	3082.14
17.Net Plot area	22550.46
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 52519.43 sqm
	b) Non FSI area (sq. m.): 44303.04
	c) Total BUA area (sq. m.): 96822.47
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 22450.66
	Approved Non FSI area (sq. m.): 16848.75
	Date of Approval: 12-08-2015
19.Total ground coverage (m2)	10265
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39.6
21.Estimated cost of the project	2780000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	2P +15	44.95
2	B	2P +15	44.95
3	C	2P +15	44.95
4	D	2P +15	44.95
5	E	2P +15	44.95
6	F	2P+15	44.95
7	G	2P +15	44.95
8	H	2P +15	44.95
9	I (MHADA)	P + 9	28.65
10	J	P + G +15	44.95

23.Number of tenants and shops	1664 tenements
24.Number of expected residents / users	Residential : 8320
25.Tenant density per hectare	400 tenements/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9
29.Existing structure (s) if any	Temporary structure (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	NA	NA	NA	NA

32.Total Water Requirement

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	754
	Recycled water - Flushing (CMD):	374
	Recycled water - Gardening (CMD):	19
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1147
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	20/bldg
	Excess treated water	622
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	754
	Recycled water - Flushing (CMD):	374
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1128
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	20/bldg
	Excess treated water	641
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	0	754	754	0	75	75	0	679	679
Gardening	0	19	19	19	19	19	0	0	0

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Depth to ground water table 12.40 meter below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8
	Size of recharge pits :	2m*2m*2m filter pit and 1m*1M*1m collection chamber diameter recharge bore well 0.175 m and depth of bore well 60m
	Budgetary allocation (Capital cost) :	3.73 /- lakhs
	Budgetary allocation (O & M cost) :	0.40/- lakhs
	Details of UGT tanks if any :	Domestic : 1123.20 KL Flushing 374.40 KL Fire fighting : 500 KL
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	16339.52 cubic meter
	Size of SWD:	400 mm to 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	1010
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STP I: 505 KLD, STP II: 505 KLD,
	Location & area of the STP:	As per layout ; area 600 sqm
	Budgetary allocation (Capital cost):	240 /- lakhs
	Budgetary allocation (O & M cost):	14.40/- lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 % of total raw material
	Disposal of the construction waste debris:	On the same site as filling material
Waste generation in the operation Phase:	**Dry waste:**	1344 kg/day
	Wet waste:	2400 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	360 Kg/day
	Others if any:	E waste : 1700 kg/year

SEAC AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Through mechanical composting unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Through mechanical composting unit
	Others if any:	E waste: through authorized vendor
Area requirement:	**Location(s):**	As per contour
	Area for the storage of waste & other material:	33 sqm and 22 sqm
	Area for machinery:	269 sqm and 3 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	42 /- Lakhs
	O & M cost:	23.50/- lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	7 -8.5	6.5 - 7.5	NA
2	COD	mg/l	300-400	<30	Not to exceed 100 mg/l
3	BOD	mg/l	250 -300	<10	Not to exceed 10 mg/l
4	TSS	mg/l	350-450	<5	Not to exceed 50 mg/l
5	oil and grease	mg/l	10	<5	NA
6	Total Nitorgen	mg/l	40-50	<10 or equal	NA
7	Ammonical nitrogen	mg/l	5-7	<2 or equal	NA
8	Feacal coliform	MPN/100	1000000	Nil	NA

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	100KVA-1 No.	16.9 lit./hr @ 75% Loading	1	4.1 Mtr	0.1016	400

SEAC-AGENDA-0000000280

2	180KVA-2 Nos.	41.31 lit./hr @ 75% Loading	2	4.27Mtr	0.127	400

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	16.9 lit/hr	16.9 lit/hr
41.Source of Fuel		BPCL /HP		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	3048.38 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	340
	List of proposed native trees :	As per below list
	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	Manikara Zapota	Chikoo	20	Tropical fruit tree & bird attracting tree
2	Michelia Champaca	Champa	20	Evergreen timber plant, ornamental
3	Mimusopes elengi	Bakul	20	Evergreen tree, timber yielding and medicinal plant
4	Ficus benjamina	Weeping fig	20	Evergreen & bird attracting tree
5	Cassia fistula	Golden shower	20	Drought tolerant, ornamental & medicinal plant
6	Cassia fistula	Golden shower	20	Drought tolerant, ornamental & medicinal plant
7	Cassia fistula	Golden shower	20	Drought tolerant, ornamental & medicinal plant
8	Butea monosperma	Flame tree	20	Used in pesticide & dye preparation,
9	Cassia grandis	Pink Shower	20	Drought tolerant, ornamental & medicinal plant
10	Saraca indica	Sita ashok	20	Evergreen medicinal plant
11	Roystonia regia	Royal palm	20	Nitrogen fixer, ornamental plant
12	Syzygium cumini	Jambhul	20	Fruit tree & bird attracting
13	Neolamarkia cadamba	Kadamba tree	20	Tropical fruit tree & bird attracting tree
14	Mangifera Indica	Mango tree	20	Evergreen & bird attracting tree
15	Pongamia pinnata	Karanj	20	Karanj is an important ayurvedic medicine
16	Phyllanthus officinalis	Awala	20	Evergreen medicinal and fruit plant

SEAC-AGENDA-0000000280

17	Psidium guajava	Peru	20	Fruit tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	82.5 KVA
	During Operation phase (Connected load):	3812
	During Operation phase (Demand load):	2698
	Transformer:	630 KVA X 4 and 315 KVA X 1
	DG set as Power back-up during operation phase:	180 KVA X 2 and 100 KVA X 1
	Fuel used:	41.35 l/hr at 75 % loading and 16.9 lit/hr at 75 % loading
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

1. Auto Timer control for external and common lighting
2. Use of CFL/LED lamps in all public/common areas
3. Solar powered water heating
4. Electronic V3F drivers for Elevators
5. Solar PV panel power for common area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	0.34 %
2	Timer Logic Controller	1.34%
3	Electronic V3F drive for Lifts	0.62 %
4	Solar water heater	21.80 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water pollution	NA	STP
Solid waste	NA	OWC

SEAC-AGENDA-0000000280

Noise pollution	NA	Acoustic enclosure to DG Set

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	274.25 /- Lakhs
	O & M cost:	8.39 lakhs p.a.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	Dust suppresion measures and barricading	5.00
2	Site safety and sanitation	on site safety measures such safety net , sign boards etc	2.00
3	Disinfection and health hazard	proper sanitation measures	1.10
4	Environmental monitoring	Air and water monitoring and analysis and soil and water analysis	1.50

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	2 STP of MBBR technology	240	14.40
2	Solid waste management	OWC	42	23.50
3	Solid waste management	OWC	42	23.50
4	RWH	internal piping	3.73	0.40
5	Landscape	tree plantation	22.50	1.60

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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

SEAC-AGENDA-0000000280

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	38000 sqm
	Area per car:	25 sqm and 30 sqm
	Area per car:	25 sqm and 30 sqm
	Number of 2-Wheelers as approved by competent authority:	3328
	Number of 4-Wheelers as approved by competent authority:	832
	Public Transport:	NA
	Width of all Internal roads (m):	12
	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	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000280

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 29000 m2, FSI area of 52519.43 m2, Non FSI area of 44303.04 m2 and total BUA of 96822.47 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 86th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Expansion of Residential and Commercial Development Project Anand Tara

Is a Violation Case: No

1.Name of Project	Anand Tara
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vishwajeet Gaikwad
4.Name of Consultant	Mr. Rajesh Srivastava - Pollution and Ecology Control Services (PECS)
5.Type of project	Residential
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	SEAC-III-2015/CR-141/TC-3 dated 01/03/2017
8.Location of the project	S. No. 32/3A & 32/3B
9.Taluka	Haveli
10.Village	Keshav Nagar, Mundhwa
Correspondence Name:	Mr. Vishwajeet Gaikwad
Room Number:	West Wing,
Floor:	Third Floor
Building Name:	Arora Towers
Road/Street Name:	Camp
Locality:	Pune, Maharashtra 411001
City:	Pune, Maharashtra 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/0390/18 dtd14/05/2018 Applicable DC Rules, PMC Sanction
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 31905.26
13.Note on the initiated work (If applicable)	Work initiated as per the Environment Clearance issued bearing No SEAC-III-2015/CR-141/TC-3 dated 01/03/2017. The work under progress
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	14316.64
16.Deductions	933.09
17.Net Plot area	13383.55
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20111.16
	b) Non FSI area (sq. m.): 11794.1
	c) Total BUA area (sq. m.): 31905.26
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20111.16
	Approved Non FSI area (sq. m.): 11794.1
	Date of Approval: 06-03-2019
19.Total ground coverage (m2)	2899.32
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22 %
21.Estimated cost of the project	65000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	P+10	32.05
2	B	P+10	32.05
3	C	P+10	32.05
4	D	P+10	32.05
5	Bungalow	G+1	7
6	Amenity	LG+UG+4	12.80
7	Parking Building	LP+UP	6

23.Number of tenants and shops	281 Tenants, 32 Shops, 8 Multipurpose Hall etc
24.Number of expected residents / users	Resident Users 1405 Nos, Commercial Users 341 Nos
25.Tenant density per hectare	210
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	36
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9
29.Existing structure (s) if any	Bldg C & D as per the Sanction & as mentioned in earlier EC
30.Details of the demolition with disposal (If applicable)	No

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	136.27
	Recycled water - Flushing (CMD):	71.76
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	216.03
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	80
	Excess treated water	133.27
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	136.27
	Recycled water - Flushing (CMD):	71.76
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	205.03
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	80
	Excess treated water	125.27
Details of Swimming pool (If any)	3 Mtr X 7Mtr X 1 Mtr Depth baby Pool	

33.Details of Total water consumed

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

SEAC-AGENDA-000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20 M below GL
	Size and no of RWH tank(s) and Quantity:	NIL
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8
	Size of recharge pits :	4 cum
	Budgetary allocation (Capital cost) :	Rs. 2.40 Lac
	Budgetary allocation (O & M cost) :	Rs. 0.20 Lac/pa
	Details of UGT tanks if any :	Domestic 207 cum Fire 250 cum
35.Storm water drainage	**Natural water drainage pattern:**	South to North West
	Quantity of storm water:	8604 cum
	Size of SWD:	Internal 300 mm & External 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	213 CMD
	STP technology:	Phytorid & MBBR Technology
	Capacity of STP (CMD):	190 CMD - 1 Nos for residential & 30 CMD 1 Nos for commercial
	Location & area of the STP:	As shown on Plan
	Budgetary allocation (Capital cost):	Rs. 47.50 Lac
	Budgetary allocation (O & M cost):	Rs. 1.80 pa
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	5 kg/d
	Disposal of the construction waste debris:	Used for land filling
Waste generation in the operation Phase:	**Dry waste:**	315 kg/d
	Wet waste:	459 kg/d
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	N.A
	STP Sludge (Dry sludge):	Negligible
	Others if any:	E Waste Negligible

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized Agency SWACH
	Wet waste:	In-situ Composting
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	N.A
	STP Sludge (Dry sludge):	In-situ Composting
	Others if any:	E Waste Handed over to Authorized Agency SWACH
Area requirement:	**Location(s):**	Shown on Plan
	Area for the storage of waste & other material:	65 sqm
	Area for machinery:	Considered in Above Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 13.50 Lac
	O & M cost:	Rs. 5.80 Lac pa

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	711.01 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	158
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Before Completion of the Project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	5	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	5	Evergreen tree, fast growing
3	Saraca asoka	Seeta Ashok	5	Shady tree with red-yellow flowers
4	Anthocephallus cadamba	Kadamb	5	Shady, large tree, ball shaped flowers
5	Psidium guajava	Peru	5	Medium size , fruit bearing tree
6	Nyctanthes arbor-tristis	Parijatak	5	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
7	Ochna obtusata	Kanak Champa	5	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
8	Murraya paniculatum	Kamini/Kunti	5	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
9	Manilkara zapota	Chickoo	5	This small tree attracts Birds and Bees. Edible Fruit.
10	Citrus limon	Lemon	5	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
11	Bauhinia racemosa	Apta	5	Native to Pune, this Shrub has a Religious importance
12	Mimusops elengi	Bakul	5	Native, Evergreen Foliage and Flowering tree has dense branching, hence good for Wind screening. Flowers are deeply fragrant and attracts birds and Bees.
13	Pongamia pinnata	Karanj	5	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
14	Mangifera indica	Mango	5	Tall, fruit bearing tree
15	Syzygium cumini	Jambhul	5	Dense ornamental, fruit bearing tree
16	Lagerstroemia reginae	Tamhan	5	This Purple Flowering plant is the State flower of Maharashtra.

SEAC-AGENDA-0000002280

17	Cassia fistula	Bahava	5	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
18	Erythrina variegata	Pangara	5	Native to Western Maharashtra, this Reddish-Orange Flowering and Deciduous tree attracts lot of Birds for the Nectar.
19	Terminalia catapa	Badaam	5	Drought tolerant.
20	Terminalia arjuna	Arjuna	5	Large evergreen tree.
21	Bauhinia purpurea	Kanchan	5	Exotic tropical tree that blooms over a long period of time.
22	Michelia champaca	Son Chafa	5	Large evergreen tree.
23	Caryota urens	Fish Tail Palm	5	Flowering plant in the palm family.
24	Plumeria alba	Plumeria alba	5	Tree with elongated leaves, large and strongly perfumed white flowers with a yellow center. Ornamental plant.
25	Couroupita guianensis	Kailashpati	5	Deciduous tree. Flowering & Fruit Bearing. Medicinal properties.
26	Khaya anthotheca	Mahogany	5	Large, fast-growing, semi-deciduous tree with a dense crown.
27	Butea monosperma	Palas	5	Medium-sized dry season-deciduous tree.
28	Ficus glomerate	Cluster Fig	5	Deciduous tree. Medicinal Properties.
29	Cordia dichotoma	Indian Cherry	5	Flowering Tree.
30	Plumeria rubra	Frangipani	5	Tropical and sub-tropical deciduous tree.
31	Phyllanthus emblica	Indian gooseberry	4	Small to medium sized deciduous tree. Ayurvedic importance.
32	Dalbergia latifolia	Indian rosewood	4	Single-stemmed deciduous tree with a dome shaped crown of lush green foliage.
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	0

47.Energy

SEAC AGENDA-0000000280

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	NIL
	During Operation phase (Connected load):	1546 KW
	During Operation phase (Demand load):	703 KW
	Transformer:	630 KVA + 315 KVA
	DG set as Power back-up during operation phase:	160 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Use of LED in Parking, Lobby, Staircase and common areas
2. Solar Water Heaters
3. V3F Drives for all the lifts
4. Low Loss Transformers
5. Comply with all ECBC Norms

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Use of LED in Parking, Lobby, Staircase and common areas. 2. Solar Water Heaters. 3. V3F Drives for all the lifts. 4. Low Loss Transformers. 5. Comply with all ECBC Norms	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. 60.60 Lac
	O & M cost:	Rs. 1.15 Lac

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 Construction & labour	Water Requirement	9.70
2	Site Sanitation & Safety	Health & Safety	6.00

SEAC-AGENDA-0000000280

3	Environmental Monitoring	Pollution Monitoring & Control	3.60
4	Disinfection	Health & Safety	1.80
5	Health Check-Up	Health & Safety	1.80

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH Pits	2.40	0.20
2	Sewage Treatment Plant	Waste Water Management	47.50	1.80
3	Organic Waste Composting	Solid Waste Management	13.50	5.80
4	Tree Plantation	Landscape Development	25.00	3.60
5	Energy Saving	Energy Conservation	60.00	1.15
6	Environmental Monitoring	Pollution Control	0.00	1.80

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

SEAC AGENDA-0000000280

Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	6556.6 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	464
	Number of 4-Wheelers as approved by competent authority:	175
	Public Transport:	No
	Width of all Internal roads (m):	6
	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	Category B
	Court cases pending if any	NA
	Other Relevant Informations	NO
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000280

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 13100 m2, FSI area of 16146 m2, Non FSI area of 12327.41 m2 and total BUA of 28474.30 m2.

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

SEAC AGENDA 0000000280

DECISION OF SEAC

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for proposed construction project by M/s Silver Group

Is a Violation Case: No

1.Name of Project	Silver City
2.Type of institution	Private
3.Name of Project Proponent	Mr.Kiran Kisan Sawant
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Gat no. 301, Jadhavwadi, Chikhali, Pune- 411014.
9.Taluka	Haveli
10.Village	Jadhavwadi
Correspondence Name:	Mr. Ganesh Vasantrao Jadhav
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Jadhavwadi
Locality:	Chikhali
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: BP/Chikhali/76/2018
	Approved Built-up Area: 23104.94
13.Note on the initiated work (If applicable)	17886.72 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable-2050.55m2
15.Total Plot Area (sq. m.)	12400m2
16.Deductions	2298.72m2
17.Net Plot area	10101.28m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19630.03m2
	b) Non FSI area (sq. m.): 16371.66m2
	c) Total BUA area (sq. m.): 36001.69
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 10988.46m2
	Approved Non FSI area (sq. m.): 12088.03 m2
	Date of Approval: 30-07-2018
19.Total ground coverage (m2)	2403.58m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.38% of total plot area (12400 m2) , 23.79 % of net plot area (10101.28 m2)
21.Estimated cost of the project	620000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing- A	BP+GP+11 Floors	36.00
2	Wing- B	BP+GP+11 Floors	36.00
3	Wing- C	GP + 07 Floors	24.00
4	Wing- D	GP + 12 Floors	39.00
5	Wing- E	GP + 12 Floors	39.00
6	MHADA	GP + 04 Floors	15.00
7	MHADA- 1	GP + 04 Floors	15.00

23.Number of tenants and shops	Total Tenements- 400Nos. (Resi= 364 Nos., MHADA= 36 Nos.)
24.Number of expected residents / users	Residential Users- 1820 Nos, MHADA Users- 180 Nos. Total Users: 2000 Nos.
25.Tenant density per hectare	204/H
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m & 12 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
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	NA	NA	NA	NA

32.Total Water Requirement

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	294.94 m3/day (One time)
	Recycled water - Flushing (CMD):	90.00 m3/day
	Recycled water - Gardening (CMD):	16.94 m3/day
	Swimming pool make up (Cum):	3.00 m3/day
	Total Water Requirement (CMD) :	188.00 m3/day
	Fire fighting - Underground water tank(CMD):	250.00m3
	Fire fighting - Overhead water tank(CMD):	120.00 m3
	Excess treated water	136.06 m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	278.00 m3/day (One time)
	Recycled water - Flushing (CMD):	90.00 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	3.00 m3/day
	Total Water Requirement (CMD) :	188.00 m3/day
	Fire fighting - Underground water tank(CMD):	250.00 m3
	Fire fighting - Overhead water tank(CMD):	120.00 m3
	Excess treated water	153.00 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: • Main Pool = 108sqm x 1.2m water depth • Baby pool= 9.415sqm x 0.6m water depth Total water Requirement in Litres: - 1,50,000 Ltrs Water requirement in KLD: 3.00 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored. Capital cost: Rs. 41.26 Lakh O & M Cost : Rs. 2.40 Lakh/Year	

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

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 18.33 m. to 30.00 m. BGL. (24.17 M. BGL Average) , Rainy Season – 5.00 m. to 10.00 BGL. (7.50 M. BGL Average), Winter Season – 11.67 m. to 20.00 m. BGL. (15.84 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	2.25 m. X 2.25 m. X 1.75 m. Depth with 45 To 60 m. Deep 6” Dia. Bore well via 2 No. of de-siltation pits of 0.9 m. Dia. 1.0 m. Depth.
	Budgetary allocation (Capital cost) :	Rs. 6.75 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.50 Lakh/Year
	Details of UGT tanks if any :	Residential: Domestic UG tank Capacity: 340.00 m3 Flushing UG tank Capacity: 100.00 m3 Fire UG tank Capacity: 250.00 m3 MHADA: Domestic UG tank Capacity: 38.00 m3 Flushing UG tank Capacity: 10.00 m3 Fire UG tank Capacity: NA
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	6,666.56 m3 / Year i.e.133.33 m3 / Day, considering 849.30 mm. annual rain fall in 50 days averagely.
	Size of SWD:	600mm
Sewage and Waste water	**Sewage generation in KLD:**	Residential: 221.13 m3/day & MHADA: 21.87 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	STP- 1 (For Residential)=230m3/day & STP- 2 (For MHADA)=25m3/day
	Location & area of the STP:	STP-1= 91.88 m2 & STP- 2= 19.00 m2
	Budgetary allocation (Capital cost):	STP- 1= Rs.43.50 Lakh (Resi), STP- 2 = Rs. 16.50 Lakh (MHADA)
	Budgetary allocation (O & M cost):	STP- 1= Rs. 7.10 Lakh / Year (Resi), STP- 2= Rs. 5.73 Lakh/Year (MHADA)

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 Kg/day
	Disposal of the construction waste debris:	Use for Levelling
Waste generation in the operation Phase:	**Dry waste:**	400 Kg/Day
	Wet waste:	600 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	21.87 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	SWaCH
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	OWC- 1= 59.00m2 (For Residential), OWC- 2= 29.00m2 (MHADA)
	Area for machinery:	Included in other material area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	OWC- 1= Rs. 16.75 Lakh, OWC- 2= Rs.9.25 Lakh
	O & M cost:	OWC- 1= 3.28 Lakh/Year, OWC- 2= Rs. 1.55Lakh/Year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	125 KVA- 1No. (Resi)	HSD-20.2 Lit/Hr	S-1	4.22	-	-
2	45 KVA- 1No. (MHADA)	HSD-8.7 Lit/Hr	S-2	3.75	To be provided	To be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	125 KVA- 20.2 lit./hr @ 75% Loading	45 KVA- 8.7 lit/hr @75% Loading	28.9 lit./hr @ 75% Loading
41.Source of Fuel		Bharat Petroleum Corporation Limited/ Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	1174.21m2
	No of trees to be cut :	-
	Number of trees to be planted :	176 Nos. (Out of 64 No. of trees already planted)
	List of proposed native trees :	176 Nos. (Out of 64 No. of trees already planted)
	Timeline for completion of plantation :	Before 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	Mimusops elengi	Bakul	21	Large, evergreen, dense, shady tree, medicine, fruit is edible.
2	Spathodea campanulata	African tulip	17	Attractive to birds, flowering shady tree.
3	Tabebuia	Roble	22	Large flowering tree, attractive to birds.
4	Swietenia macrophylla	Mohogani	13	Beautiful shady tree.
5	Terminalia mantaly	Madagascar Almond	18	Evergreen tree, shady tree.
6	Anthocephalus cadamba	Kadamba	10	Genius of flower plants.
7	Millingtonia hortensis	Buch	10	Fragrance & flowering tree, attractive to birds.
8	Pongamia pinnata	Pongam Tree	11	Beautiful pink flowering tree.
9	Michelia champaka	Sonchapa	12	Beautiful long lasting flowers.
10	Nyctanthes arbor-tristis	Parijat	10	Beautiful long lasting flowers having beautiful smell.
11	Mangifera indica	Mango	17	Large fruit giving tree (mango tree).
12	Erythrina stricta	Coral Tree	15	Large flowering tree, attractive to birds.
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC AGENDA-0000000280

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	82.5 KVA – 1 No
	During Operation phase (Connected load):	1688 KW
	During Operation phase (Demand load):	964 KW
	Transformer:	1 Nos x 630 KVA & 1 Nos. x 315 KVA
	DG set as Power back-up during operation phase:	125 KVA – 1 No.(Resi) & 45 KVA – 1 No. (MHADA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

1. Auto Timer control for external & Common lighting.
2. Use of LED lamps in all public/ common areas.
3. Solar powered water heating.
4. Electronic V3F Drives for Elevators .
5. Solar PV Panel power for common area lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	0.60%
2	Timer Logic Controller	1.06%
3	Electronic V3F drive for lifts	0.52%
4	Solar Water Heater	10.92%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	We have planted 64 nos. of trees on site	Remaining Green belt is proposed to be planted.
Water	STP is installed & excess treated water is used for flushing & gardening	-
Noise	Acoustically enclosed DG set is installed.	Noise monitoring will be done in once a fortnight.
Solid Waste	-	Wet waste will be treated in OWC. STP sludge will be used as manure. After treatment in OWC, dry waste will be given to SWACH.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Solar Water Heating System-Rs. 37.50 Lakh , Solar Power Pack- Rs. 11.05 Lakh
	O & M cost:	Solar Water Heating System- Rs. 0.60 Lakh/Year, Solar Power Pack- Rs. 0.74 Lakh/Year

51.Environmental Management plan Budgetary Allocation

SEAC-AGENDA-0000000280

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air& Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation- Mobile toilets	0.50 Lakh/Year
4	Socio Economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches for Children, Food for children, Personal Protective Equipment	1.00 Lakh/Year

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-1 (Resi)	-	Rs. 43.50 Lakh	Rs. 7.10 Lakh/Year
2	STP-2 (MHADA)	-	Rs. 16.50 Lakh	Rs. 5.73 Lakh/Year
3	RWH	-	Rs. 6.75 Lakh	Rs. 0.50 Lakh/ Year
4	MSW (OWC)- 1	Organic Waste Converter	Rs. 16.75Lakh	Rs. 3.28 Lakh/Year
5	MSW (OWC)- 2	Organic Waste Converter	Rs. 9.25 Lakh	Rs. 1.55 Lakh/Year
6	Solar System	-	Rs. 37.50 Lakh	Rs. 0.60 Lakh/Year
7	Solar Power Pack	-	Rs. 11.05 Lakh	Rs. 0.74 Lakh/Year
8	Landscaping	-	Rs. 17.99Lakh	Rs. 2.00 Lakh/Year
9	Swimming Pool	-	Rs.41.26 Lakh	Rs. 2.40 Lakh/Year
10	Safety Equipments	-	Rs. 10.00Lakh	Rs. 2.00 Lakh/Year
11	Post EC Monitoring	-	-	Rs. 2.50 Lakh/Year
12	Dry Waste Management	-	-	Rs. 2.40 Lakh/Year

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

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

52.Any Other Information

No Information Available

53.Traffic Management

SEAC-AGENDA-0000000280

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	1680.78 m2
	Number and area of podia:	-
	Total Parking area:	9945.00m2
	Area per car:	49.72m2
	Area per car:	49.72m2
	Number of 2-Wheelers as approved by competent authority:	400 Nos.
	Number of 4-Wheelers as approved by competent authority:	200 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m & 7.50 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	No
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC AGENDA-00000000280

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-

Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 12400 m2, FSI area of 19630.03 m2, Non FSI area of 16371.66m2 and total BUA of 36001.69 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000280

During discussion following points emerged:

1. The Committee note that High Tension line is passing through the plot. PP to submit revised NOC from Superintendent Engineer, MSETC along with plan showing alignment where no structures, parkings are permitted.

2. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

3. PP to submit CFO NOC for building D, E and F.

4. PP to relocate recharge pit located beyond nalla.

5. PP to submit plantation plan incorporating local native fruit bearing trees.

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Proposed Construction project by M/s Vardhaman Associates

Is a Violation Case: No

1.Name of Project	"Residential & Commercial"
2.Type of institution	Private
3.Name of Project Proponent	Mr.Prakash Bhikamchand Chhajed
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No 40/4B(P) & 41/3A/1(P) , Near Vimal Garden
9.Taluka	Haveli
10.Village	Rahatani
Correspondence Name:	Mr.Prakash Bhikamchand Chhajed
Room Number:	-
Floor:	-
Building Name:	Sai Niwas,Near Jyotiba mangal Karyalay
Road/Street Name:	-
Locality:	Kalewadi
City:	Pune-411017
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: BP/Env/Rahatani/02/2019 ,Date- 15.02.2019
	Approved Built-up Area: 52346.26
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable-2705.69 m2
15.Total Plot Area (sq. m.)	14750.00 m2
16.Deductions	1568.73 m2
17.Net Plot area	13181.27 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26528.22 m2
	b) Non FSI area (sq. m.): 25818.04 m2
	c) Total BUA area (sq. m.): 52346.26
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 26528.22
	Approved Non FSI area (sq. m.): 25818.04
	Date of Approval: 15-02-2019
19.Total ground coverage (m2)	3809.94 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.83 % of Total Plot area (14750.00 m2) & 28.90 % of Net Plot area (13181.27 m2)
21.Estimated cost of the project	1150000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	2P + 11	39.00 m
2	Wing B	2P + 11	39.00 m
3	Wing C	2P + 11	39.00 m
4	Wing D	2P + 11	39.00 m
5	MHADA Wing	2P + 10	36.00 m
6	Commercial Building	BP+G+5	22.80 m

23.Number of tenants and shops	Total Tenements -327 Nos. Shops- 47 Nos.,Offices-92 Nos.& Hall – 1 No.
24.Number of expected residents / users	Residential Users: 1635 Nos.,Commercial Users: 2129 Nos.,Total Users: 3764 Nos.
25.Tenant density per hectare	221.69/H
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00 m wide Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	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

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	335.54 m3/day (One time)
	Recycled water - Flushing (CMD):	126.81 m3/day
	Recycled water - Gardening (CMD):	12.00 m3/day
	Swimming pool make up (Cum):	2.00 m3/day
	Total Water Requirement (CMD) :	196.73 m3/day
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	120 m3
	Excess treated water	150.57 m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	323.54 m3/day (One time)
	Recycled water - Flushing (CMD):	126.81 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	2.00 m3/day
	Total Water Requirement (CMD) :	196.73 m3/day
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	120 m3
	Excess treated water	162.57 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: Size of Main Pool-10.0m x 6m x 1.2m water depth Size of Kids Pool -3.0m x 6m x 0.6m water depth Total water Requirement : 82,600 lit Make up Water requirement in KLD: 2.00 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored; Budgetary allocation (Capital cost and O & M cost): • Capital cost :Rs.14.27 Lakh • O & M Cost : Rs. 1.68 Lakh/Year	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4.00 m to 6.00 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	08 Nos.
	Size of recharge pits :	2.5 m x 2.5 m x 3.0 m depth
	Budgetary allocation (Capital cost) :	Rs. 20.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.40 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 312.10 m3 Flushing UG tank Capacity: 208.20 m3 Fire UG tank Capacity:300.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	106.93 m3/day
	Size of SWD:	600 mm dia.
Sewage and Waste water	**Sewage generation in KLD:**	289.38 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of 300 m3/day
	Location & area of the STP:	129.00 m2
	Budgetary allocation (Capital cost):	Rs.86.00 Lakh
	Budgetary allocation (O & M cost):	Rs.15.71 Lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	40 kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	646.00 kg/day
	Wet waste:	703.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	44.6 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Authorized Vender
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	91.00 m2 including machinery area
	Area for machinery:	Included in other material area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20.75 Lakh
	O & M cost:	Rs. 4.29 Lakh/Year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	140 KVA – 1No.	HSD-27.5 Ltr/Hr @ 100% load	S-1	5.6 Mtr.	will be provided	will be provided
2	100 KVA – 1 No.	HSD- 21.9 Ltr/Hr @ 100% load	S-2	5.0 Mtr.	will be provided	will be provided
3	40 KVA – 1No.	HSD- 6.5 Ltr/Hr @ 100% load	S-3	4.0 Mtr.	will be provided	will be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	55.9 Ltr/Hr	55.9 Ltr/Hr

SEAC-AGENDA-0000000280

41.Source of Fuel	Bharat Petroleum Corporation Ltd/ Hindustan Petroleum
42.Mode of Transportation of fuel to site	By Roadway

43.Green Belt Development	**Total RG area :**	1474.03 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	183 Nos.
	List of proposed native trees :	183 Nos.
	Timeline for completion of plantation :	Mid of Construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bombax Ceiba	Cotton Tree	08	Shady tree, Small white fragrant flower
2	Azardirachta Indica	Neem	10	Good medicinal use
3	Mangifera Indica	Mango	09	Tall evergreen tree with fruit bearing
4	Areca Catechu	Palm	20	Tall evergreen tree with fruit bearing
5	Pongamia Pinnata	Indian beech	11	Good medicinal use
6	Artocarpus Heterophyllus	Jackfruit	06	Tall evergreen tree with fruit bearing
7	Albizia Lebbeck	Shirish	17	Fragrant flowers or leaves attracts birds/butterflies/bees, Drought tolerant
8	Saraca Indica	Sita Ashok	14	Fragrant flowers or leaves attracts birds/butterflies/bees, Deep green, Shiny foliage
9	Butea Monosperma	Palas	16	Fragrant flowers or leaves, Flowers covering the entire crown
10	Lagerstromia Flosreginae	Jarul	07	Creates shade, attracts birds/butterflies/bees, Good for screening
11	Syzygium Cumini	Jamun	12	Tall evergreen tree with fruit bearing
12	Bauhinia Blakieana	Rakta Chandan	06	Fragrant flowers or leaves,Plant for pooja, Evergreen tree
13	Khaya Grandis	Khaya	10	Evergreen tree
14	Cassia Fistula	Golden shower	03	Auspicious attracts birds/bees/butterflies/hanging or weeping growth
15	Mimusops Elengi	Bakul	06	Shady tree, Small white fragrant flower
16	Terminalia Catappa	Badam	13	Fruit bearing evergreen tree
17	Michelia Champka	Chafa	06	Ornamental flowering tree
18	Manilkara Zapota	Chikoo	06	Fruit bearing tree
19	Phyllanthus Emblica	Amla	03	Good medicinal tree

SEAC-AGENDA-0000000380

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)	30 KW
	DG set as Power back-up during construction phase	40 KVA- 1 No
	During Operation phase (Connected load):	2210 KW
	During Operation phase (Demand load):	1169 KW
	Transformer:	22/630 KVA – 2 Nos.
	DG set as Power back-up during operation phase:	140 KVA – 1 No.(Resi.), 100 KVA – 1 No.(Comm.) & 40 KVA – 1No.(MHADA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Solar water heating systems will be done for bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• LED based lighting will be done in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
• Auto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy.
• Water level controllers with timers will be used for Water pumps.
• To create awareness to end consumer or flat owner, for using energy efficient light fittings LED lights.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Percentage Savings Per Day. For Total Annual Savings in KWH for Solar Power, Hot Water & LED Lighting Details	17.69 %
2	Percentage Savings Per Day. For Total Annual Savings in KWH For Solar Power & Solar Hot Water Details	13.7 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided

SEAC AGENDA-0000000280

Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	-	Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC Dry Waste will be given to SWACH

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Energy system : Rs.56.70 Lakh
	O & M cost:	Energy system: Rs. 1.13 Lakh/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation –Mobile toilets	0.50 Lakh/Year
4	Socio-economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00 Lakh/Year

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	300 m3/day	Rs.86.00 Lakh	Rs.15.71 Lakh/Year
2	RWH	Rain water Harvesting	Rs.20.00 Lakh	Rs.0.40 Lakh/Year
3	MSW	OWC	Rs.20.75 Lakh	Rs.4.29 Lakh/Year
4	Energy System	-	Rs.56.70 Lakh	Rs.1.13 Lakh / Year
5	Landscaping	-	Rs.50.00 Lakh	Rs.5.00 Lakh/Year
6	Swimming Pool	-	Rs.14.27 Lakh	Rs.1.68 Lakh/Year
7	Safety Equipments	-	Rs.10.00 Lakh	Rs.2.00 Lakh/Year
8	Post EC Monitoring	-	-	Rs.2.50 Lakh/Year
9	Dry Waste Management	-	-	Rs.2.80 Lakh/Year

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

SEAC-AGENDA-0000000280

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	1 No. & Area = 1409.86 m2
	Number and area of podia:	1 No. & Area = 2393.17 m2
	Total Parking area:	13188.80 m2
	Area per car:	45.16 m2
	Area per car:	45.16 m2
	Number of 2-Wheelers as approved by competent authority:	1038 Nos.
	Number of 4-Wheelers as approved by competent authority:	292 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	7.5 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)
	Court cases pending if any	NA
	Other Relevant Informations	-

SEACAGENDA-00000000280

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

SEAC-AGENDA-0000000280

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 14750 m2, FSI area of 26528.22 m2, Non FSI area of 25818.04 m2 and total BUA of 52346.26 m2.

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

DECISION OF SEAC

During discussion following points emerged:

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

2. Parking layout plan for residential building shall be revised showing parking provided on ground floor and other floors. Revised parking statement shall be submitted accordingly.

3. PP to submit cross section of MHADA building indicating parking.

4. PP to submit details of storm water drain upto final disposal point.

5. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

6. PP to submit CFO NOC for building A, B, C and commercial building.

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Proposed Residential Project

Is a Violation Case: No

1.Name of Project	Proposed Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rahul Satav
4.Name of Consultant	Mr. Rajesh Srivastava - Pollution and Ecology Control Services (PECS)
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. NO. 09 TO 14, Hissa NO.-68 AT MUNDHWA, PUNE .
9.Taluka	Haveli
10.Village	Mundhwa
Correspondence Name:	Mr. Rahul Satav
Room Number:	205
Floor:	Second Floor
Building Name:	City Center
Road/Street Name:	Karve Road
Locality:	Opp. Ayurved Rasashala
City:	Pune-411004
11.Whether in Corporation / Municipal / other area	Corporation Area
12.IOD/IOA/Concession/Plan Approval Number	Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: CC/1418/18 Dtd 13/08/2018
	Approved Built-up Area: 32665.11
13.Note on the initiated work (If applicable)	No work has been initiated as on date.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	7900
16.Deductions	405.27
17.Net Plot area	7494.73
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 17518.77
	b) Non FSI area (sq. m.): 15146.34
	c) Total BUA area (sq. m.): 32665.11
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 17518.77
	Approved Non FSI area (sq. m.): 15146.34
	Date of Approval: 13-08-2018
19.Total ground coverage (m2)	1458.67
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.46%
21.Estimated cost of the project	492000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg A	2P+13	41.5
2	Bldg B	2P+13	41.5
3	Club House	Ground Floor	3

23.Number of tenants and shops	Tenants - 254, Shops - Nil
24.Number of expected residents / users	1270
25.Tenant density per hectare	339
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m & 18 m Wide 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	NIL
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000280

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	114
	Recycled water - Flushing (CMD):	57
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	178
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	96
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	114
	Recycled water - Flushing (CMD):	57
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	171
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	103
Details of Swimming pool (If any)	Swimming Pool Dimensions : 7.10 mt x 4.7 mt x 1.2 mt	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	33 M BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 Nos
	Size of recharge pits :	2mx3mx2m
	Budgetary allocation (Capital cost) :	2.1 Lacs
	Budgetary allocation (O & M cost) :	0.3 Lacs/Year
	Details of UGT tanks if any :	Domestic -173 CUM Flushing - 58 CUM Fire -- 100 CUM
35.Storm water drainage	**Natural water drainage pattern:**	South to East
	Quantity of storm water:	210 Cubic Meter/hr
	Size of SWD:	450 mm wide gutter 1:2
Sewage and Waste water	**Sewage generation in KLD:**	161 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	165 KLD
	Location & area of the STP:	Area = 80 SQM. Location shown in Layout
	Budgetary allocation (Capital cost):	44.2 Lacs
	Budgetary allocation (O & M cost):	7.8 Lacs /Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	5 Kg/Day
	Disposal of the construction waste debris:	Shall be handed over to Authorized agency
Waste generation in the operation Phase:	**Dry waste:**	254 Kg/Day
	Wet waste:	381 Kg/Day
	Hazardous waste:	NIL
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	6.5 Kg/Day
	Others if any:	E Waste- 635 kg/Year

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized Agency
	Wet waste:	In-situ Composting
	Hazardous waste:	If Generated, shall be handed over to authorized Agency
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	In-situ Composting
	Others if any:	E Waste will be handed over to MPCB Authorized Vendor/Recycler
Area requirement:	**Location(s):**	Shown on Plan
	Area for the storage of waste & other material:	50 SQM
	Area for machinery:	Considered in Above Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	6.5 Lacs
	O & M cost:	0.95 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

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	749.47 SQM
	No of trees to be cut :	NIL
	Number of trees to be planted :	94
	List of proposed native trees :	List Given Below
	Timeline for completion of plantation :	Before Completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	ERYTHRINA INDICA	PANGARA	5	THE GROWTH OF THIS DECIDUOUS, ORNAMENTAL TREE IS BROAD AND SPREADING, THAT CAN GET UPTO 20' TALL AND SPREAD UPTO 20'
2	SARACA INDICA	SITA ASHOK	10	SARACA INDICA IS AN EVERGREEN TREE WITH A SPREADING CROWN; IT CAN GROW UP TO 24 METRES TALL. CASSIA FISTULA BAUHINIA VARIEGATA 4 5
3	ALBIZZIA LEBBECK	SHIRISH	8	ALBIZIA LEBBECK IS A DECIDUOUS, PERENNIAL LEGUME TREE, UPTO 25 METER IN HEIGHT, WITH GREY BARK.
4	CASSIA FISTULA	BAHAWA	4	FLOWERING DECIDUOUS TREE. GOLDER SHOWER TREE IS MEDIUM SIZED TREE GROWING TO 10 – 20M.
5	BAUHINIA VARIEGATA	KANCHAN	9	IT IS A SMALL TO MEDIUM-SIZED TREE GROWING TO 10–12 METRES TALL, DECIDUOUS IN THE DRY SEASON.
6	MICHELIA CHAMPACA	SONCHAFA	6	YELLOW FLOWERING FRAGNANT TREE. LARGE EVERGREEN TREE.
7	MELIA AZEDARACH	LIMBARA	12	IT IS A FASTGROWING, DECIDUOUS TREE THAT CAN REACH A HEIGHT OF AROUND 10 - 15 METRES TALL.
8	MESUA FERREA	NAGKESHAR	14	NAGKESHAR
9	AZADARICHTA INDICA	NEEM	8	NEEM
10	ANTHOCEPHALO US	KADAMB	3	IT IS A LARGE EVERGREEN TREE. FLOWERS ARE SWEETLY FRAGRANT.
11	PLUMERIA ALBA	CHAFA	8	SMALL DECIDUOUS TREE WITH YELLOW FLOWERS.

SEAC-AGENDA-0000000280

12	NYCTANTHES ARBORTRISTIS	PARIJATAK	7	SMALL DECIDUOUS TFAST GROWING TREE WITH FRAGRANT AND DELICATE FLOWERS.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	1186 KW
	During Operation phase (Demand load):	710 KVA
	Transformer:	1 Nos of 630 KVA & 1 Nos of 200 KVA
	DG set as Power back-up during operation phase:	1 Nos of 200 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

.Common area lighting in Lift lobbies, Parking, Passage & Street light with LED lamp.
- Solar hot water system for one of the bath in flat
- 1% Of Solar PV generation on total Demand load.
- Timers are proposed for common area lighting.
- High Efficiency transformers as per MSEDCL requirements

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	PV Solar + LED Light Fixture + Timer For Light Control + Solar Hot Water + VFD lift + Energy Efficient Motor + Low Loss Transformer + DG (CPCB II)	20%

50.Details of pollution control Systems

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

SEAC-AGENDA-0000000280

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50.8 Lacs
	O & M cost:	2.65 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 for Construction & labour	Water Requirementle	1.5
2	Site Sanitation & Safety	Health & Safety	1.2
3	Environmental Monitoring	Pollution	1.8
4	Disinfection	Health & Safety	0.5
5	Health Check-Up	Health & Safety	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH Pits	2.1	0.3
2	Sewage Treatment Plant	Waste Water Management	44.2	7.8
3	Organic Waste Composting	Solid Waste Management	6.5	0.95
4	Tree Plantation	Landscape Development	4.9	1.4
5	Energy Saving	Energy Conservation	12.8	0.65
6	Environmental Monitoring	Pollution Control	0	1.8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 . Nos

SEAC-AGENDA-0000000280

Parking details:	**Number and area of basement:**	NIL
	Number and area of podia:	2982.75 SQM
	Total Parking area:	10025.93 SQM
	Area per car:	12.5 SQM
	Area per car:	12.5 SQM
	Number of 2-Wheelers as approved by competent authority:	538
	Number of 4-Wheelers as approved by competent authority:	269
	Public Transport:	NIL
	Width of all Internal roads (m):	MIN 6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	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	-

SEAC AGENDA-0000000280

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 7900 m2, FSI area of 17518.77 m2, Non FSI area of 15146.34 m2 and total BUA of 32665.11 m2.

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

DECISION OF SEAC

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Proposed Residential & Commercial Project

Is a Violation Case: No

1.Name of Project	'ARV Regalia' by Unitree India Realty LLP
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rahul Premprakash Goyal
4.Name of Consultant	Mr. Rajesh Shrivastava- Pollution & Ecology Control Services(PECS)
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	S. No. 39/5(P), 39/6/2/4/2, 39/6/2/4/1, 39/6/2/3/1, 39/6/2/3/2
9.Taluka	Haveli
10.Village	Pisoli
Correspondence Name:	Mr. Rahul Premprakash Goyal
Room Number:	Office No. 311
Floor:	NA
Building Name:	City Tower
Road/Street Name:	Dhole Patil Road
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Metropolitian Regional Development Authority
12.IOD/IOA/Concession/Plan Approval Number	Pune Metropolitian Regional Development Authority
	IOD/IOA/Concession/Plan Approval Number: Under Process
	Approved Built-up Area: 35007.78
13.Note on the initiated work (If applicable)	No work has been initiated as on date
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11650 Sqm
16.Deductions	561.8 Sqm
17.Net Plot area	11088.2 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20174.06
	b) Non FSI area (sq. m.): 14833.72 Sqm
	c) Total BUA area (sq. m.): 35007.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20174.06 Sqm (applied for)
	Approved Non FSI area (sq. m.): 14833.72 Sqm (applied for)
	Date of Approval: 09-03-2019
19.Total ground coverage (m2)	3015.47 Sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27.62 %
21.Estimated cost of the project	480000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	G+St+10	35.7
2	Building B	G+St+10	35.7
3	Building C	2P+10	35.25
4	Building D	2P+10	35.25
5	Building E	2P+10	35.25
6	Building F	3P+10	35.1
7	Club House	G+1	7.2

23.Number of tenants and shops	No. of Tenements- 261 Nos No. of Shops- 34 (commercial area of 1288.92 Sqm)
24.Number of expected residents / users	Residential Users- 1305 Nos Commercial Users- 295 Nos
25.Tenant density per hectare	235
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 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	NIL
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	Grampanchayat Pisoli
	Fresh water (CMD):	121.87
	Recycled water - Flushing (CMD):	67.56
	Recycled water - Gardening (CMD):	15.0
	Swimming pool make up (Cum):	3.6
	Total Water Requirement (CMD) :	208.03
	Fire fighting - Underground water tank(CMD):	300.0
	Fire fighting - Overhead water tank(CMD):	120.0
	Excess treated water	87.93
Wet season:	**Source of water**	Grampanchayat Pisoli
	Fresh water (CMD):	121.87
	Recycled water - Flushing (CMD):	67.56
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	3.6
	Total Water Requirement (CMD) :	193.03
	Fire fighting - Underground water tank(CMD):	300.0
	Fire fighting - Overhead water tank(CMD):	120.0
	Excess treated water	102.93
Details of Swimming pool (If any)	Size of Swimming Pool- 37.05 Sqm x 1.2 m	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 13.00 m. to 18.67 m. BGL. (15.84 M. Average) Rainy Season – 5.00 m. to 9.33 BGL. (7.17 M. Average) Winter Season – 9.00 m. to 14.00 m. BGL. (11.50 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4 Nos
	Size of recharge pits :	2.50m x 2.50m x 1.75m depth
	Budgetary allocation (Capital cost) :	Rs. 5.0 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.25 Lacs/Annum
	Details of UGT tanks if any :	Drinking UGT- 76 Cum Raw UGT- 76 Cum Treated UGT- 32 Cum Fire UGT- 300 Cum
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	5,621.28 m3 / Year i.e. 112.43 m3 / Day
	Size of SWD:	450-600 mm
Sewage and Waste water	**Sewage generation in KLD:**	170.5 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	180 KLD
	Location & area of the STP:	Shown on plan
	Budgetary allocation (Capital cost):	Rs. 44.2 Lacs
	Budgetary allocation (O & M cost):	Rs. 7.8 Lacs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	6 Kg/day
	Disposal of the construction waste debris:	Shall be handed over to Authorized Agency
Waste generation in the operation Phase:	**Dry waste:**	291 Kg/day
	Wet waste:	425 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	19 Kg/day
	Others if any:	E waste- 947.5 Kg/year

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized agency
	Wet waste:	In situ composting
	Hazardous waste:	if generated, shall be handed over to authorized agency
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	In situ composting
	Others if any:	Handed over to authorized agency
Area requirement:	**Location(s):**	Shown on plan
	Area for the storage of waste & other material:	55 Sqm
	Area for machinery:	Considered in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 6.75 Lacs
	O & M cost:	Rs. 0.95 Lacs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	1150.85 Sqm
	No of trees to be cut :	NIL
	Number of trees to be planted :	139 Nos
	List of proposed native trees :	List given below
	Timeline for completion of plantation :	Before completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anthocephallus kadamba	Kadamb	8	Medicinal value,To control soil erosion,Birds, squirrels, monkey eat fruits.
2	Azadirachta indica	Neem	8	"Medicinal value, To control soil erosion. To improve soil erosion"
3	Bauhinia blackiana	Kanchan Raj	8	"Every part of the plant is medicinal. Drought tolerant species"
4	Bauhinia purpurea	Gulabi Kanchan	6	Every part of the plant is medicinal ,Drought tolerant species.
5	Butea monosperma	Palas	7	"Medicinal value, Bird attracting species , To control soil erosion."
6	Cassia fistula	Bahava	4	"Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly."
7	Caryota urens	Fish Tail Plam	9	"Grown in any type of soil. Very Hardy. "
8	Ficus arnottiana	Payar	4	"Drought tolerant species, Bird attracting species. To control soil erosion."
9	Ficus glomerata	Umber	4	"Medicinal value, Edible fruits, Bird attracting species"
10	Ficus microcarpa	Nandruk	4	"Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant."
11	Mangifera indica	Mango	4	"Edible fruit, Bird attracting species."
12	Michellia champaca	Sonchapha	4	"Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing."
13	Roystonia Regia	Bottle Palm	9	Grown in any type of soil.
14	Schleichera oleosa	Kusum	4	Native species, Fragrant flowers.
15	Bahunia racemosa	Apta	4	"Every part of the plant is medicinal, Drought tolerant species."
16	Dalbergia sissoo	Shisav	4	"Medicinal value, Bird attracting species "

SEAC-AGENDA-0000000280

17	Erythrina indica	Pangara	4	"Fragrant flowers, Drought tolerant species, Birds attracting"
18	Gmelina arborea	Shivan	4	"Medicinal value, Drought tolerant species, Bird attracting species."
19	Mimosups elengii	Bakul	4	"Fragrant flowers, Medicinal value, To control soil erosion."
20	Murraya exotica	Kamini	4	Native species, Fragrant flowers
21	Aegle marmelos	Bel	4	Medicinal value ,Drought tolerant species.
22	Nyctanthus arbortristis	Parijatak	4	"Fragrant flowers, Medicinal value"
23	Putranjiva roxburghii	Putranjiva	4	"Medicinal value, Drought tolerant species"
24	Melia azadirachta	Bhakam Neem	4	"Medicinal value, Native species Bird attracting species. "
25	Cochlospermum religiosum	Sonsavar	4	Flowering plant attracting birds
26	Cordia dichotoma	Bhokar	4	"Medicinal value, Edible fruits "
27	Albizialebek	Shirish	8	Medicinal for Skin, Fragrant flowers. To control soil erosion. Bird attracting species.
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	Adathoda vasica (Adulsa)	1’6”	10.05
2	Cassia auriculata (Tarwad)	1’0”	10.05
3	Cymopogon floxsus (Gavti Chaha)	1’0”	10.05
4	Plumbago capensis (Chutrak)	1’0”	10.05
5	Tabernaemontana coronaria (Variegated tagar)	1’0”	10.05
6	Stachytarpheta indica (Stachytarpheta Blue)	1’0”	10.05
7	Stachytarpheta indica (Stachytarpheta Red)	1’0”	10.05
8	Cestrum nocturnum (Ratrani)	1’0”	10.05
9	Belloperone gutta (Shrimp plant red)	1’0”	10.05
10	Jasminum sambac (Mogra)	1’0”	10.05
11	Hedychium flavescens (Sontakka)	1’0”	10.05
12	Calliandra emarginata (Powder puff dwarf)	1’6”	10.05
13	Cassia biflora (Cassica biflora)	1’0”	10.05
14	Ficus benjamina black (Ficus black)	2’0”	10.05

SEAC-AGENDA-0000000280

15	Ficus benjamina (Ficus starlight)	2’0”	10.05
16	Alpinia specious (Alpinia yellow varigated)	1’0”	10.05
17	Euphorbia caracasana (Euphorbia)	1’6”	10.05
18	Psuedoerenthemum (Kodia Yellow)	1’0”	10.05
19	Heliconia pettacorum (Heloconia orange upright)	1’0”	10.05
20	Acalypha wilkesiana (Acalpha marble pink)	1’0”	10.05
21	Murraya exotica (Kamini)	2’0”	10.05
22	Ailamanda nerifolia (Allamanda miniature)	1’0”	10.05
23	Hibiscus rosea sinensis (Hibiscus white regular)	2’0”	10.05
24	Ceasalpinia pulchirrima (Shankasur)	2’0”	10.05
25	Ixora dufii red (lxora deep red)	2’0”	10.05
26	Lagestromia indica (Lagestromia indica)	1’6”	10.05
27	Lantana camera (Tantani)	1’0”	10.05
28	Eranthemum laxiflorum (Tagar Blue)	1’0”	10.05
29	Galphimia glauca (Canara bush)	1’0”	10.05
30	Vitex negundo (Nirgudi)	1’0”	10.05
31	Caesalpinia bonduc (Sagargota)	2’0”	10.05
32	Ziziphus mauritiana (Ber)	2’0”	10.05
33	Cassia tora (Takala)	1’6”	10.05
34	Passiflora edulis (Krushna Kamal)	NA	10.05
35	Clematis gauriana (Ran Jai)	1’0”	10.05
36	Nerium olender pink (Nerium single pink)	1’6”	10.05

47.Energy

SEAC AGENDA-0000000280

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	82.5 KVA
	During Operation phase (Connected load):	1561 KW
	During Operation phase (Demand load):	1091 KW
	Transformer:	630 KVA- 2 Nos
	DG set as Power back-up during operation phase:	180 KVA- 1 No
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

"Auto Timer control for external & Common lighting
Use of LED lamps in all public/ common areas.
Solar powered water heating .
Electronic V3F Drives for Elevators
Solar PV Panel power for common area lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV panels	24000 KWH/Annum
2	Timer Logic Controller	43800 KWH/Annum
3	Electronic V3F drives for Lift	31858 KWH/Annum
4	Solar water Heater	272484 KWH/Annum
5	Total	372142 KWH/Annum
6	Total Percentage Saving	18.96%

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. 46.37 Lacs
	O & M cost:	Rs. 2.24 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)

SEAC-AGENDA-0000000280

1	Water for Construction & labour	Water Requirement	3.0
2	Site sanitation & safety	Health & safety	1.2
3	Environmental Monitoring	Pollution Control	1.8
4	Disinfection	Health & safety	0.5
5	Health Check up	Heakth & Safety	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH Pits	5.0	0.25
2	Sewage treatment	Waste water Management	44.2	7.8
3	Organic waste Composting	Solid waste management	6.75	0.95
4	Tree plantation	Landscape Development	20.25	3.25
5	Energy Saving	Energy conservation	46.37	2.24
6	Environmental Monitoring	Pollution Control	0.0	1.8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 No

SEAC-AGENDA-0000000280

Parking details:	**Number and area of basement:**	NIL
	Number and area of podia:	NIL
	Total Parking area:	Covered parking=4565.00 sqm Open parking= 2002.00 sqm Total Parking area= 6567.00 sqm
	Area per car:	At Lower Ground=35 sqm At Upper Ground = 30 sqm At stilt Floor = 30 sqm
	Area per car:	At Lower Ground=35 sqm At Upper Ground = 30 sqm At stilt Floor = 30 sqm
	Number of 2-Wheelers as approved by competent authority:	455 Nos
	Number of 4-Wheelers as approved by competent authority:	147 Nos
	Public Transport:	NIL
	Width of all Internal roads (m):	Minimum 6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC-AGENDA-0000000280

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.

Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 11650 m2, FSI area of 20174.06 m2, Non FSI area of 14833.72 m2 and total BUA of 35007.78 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit CFO NOC.

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

Specific Conditions by SEAC:

1) PP to submit CFO NOC.

FINAL RECOMMENDATION

SEAC-AGENDA-0000000280

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

SEAC-AGENDA-0000000280

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for Proposed Residential & Commercial Project

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial Project by M/s. Vastushree Developers
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mahesh Ashok Mathwad
4.Name of Consultant	Mr. Rajesh Shristava- Pollution & Ecology Control Services (PECS)
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	S. No. 32/2B, Keshav Nagar , Mundhwa.
9.Taluka	Haveli
10.Village	Keshavnagar Mundhwa
Correspondence Name:	Mr. Mahesh Ashok Mathwad
Room Number:	S. No. 6/11
Floor:	NA
Building Name:	Bhagirithi Tower
Road/Street Name:	Kothrud
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Corporation Area
12.IOD/IOA/Concession/Plan Approval Number	T.P. /Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Applied For
	Approved Built-up Area: 8350.8
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	6900.00 Sqm
16.Deductions	0.0 Sqm
17.Net Plot area	6900.00 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 13196.25 Sqm
	b) Non FSI area (sq. m.): 10861.98 Sqm
	c) Total BUA area (sq. m.): 24058.23
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 7220.43 Sqm
	Approved Non FSI area (sq. m.): 1130.37 Sqm
	Date of Approval: 22-03-2019
19.Total ground coverage (m2)	1209.3 Sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18%
21.Estimated cost of the project	400000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	G+2P+12	44.25 m from GL
2	Club House	G+1	7 m

23.Number of tenants and shops	No. of Tenements- 214 nos No. of Shops- 17 Nos
24.Number of expected residents / users	Residential Users- 1070 Nos Commercial Users- 99 Nos
25.Tenant density per hectare	310
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 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	NIL
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGETIDA-0000000280

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	98.28 Cum
	Recycled water - Flushing (CMD):	50.63 Cum
	Recycled water - Gardening (CMD):	4.0 Cum
	Swimming pool make up (Cum):	2.0 Cum
	Total Water Requirement (CMD) :	154.91 Cum
	Fire fighting - Underground water tank(CMD):	75.0 Cum
	Fire fighting - Overhead water tank(CMD):	20.0 Cum
	Excess treated water	94.28 Cum
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	98.28 Cum
	Recycled water - Flushing (CMD):	50.63 Cum
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	2.0 Cum
	Total Water Requirement (CMD) :	150.91 Cum
	Fire fighting - Underground water tank(CMD):	75.0 Cum
	Fire fighting - Overhead water tank(CMD):	20.0 Cum
	Excess treated water	98.28 Cum
Details of Swimming pool (If any)	Swimming Pool Size- 25 Sqm x 1.3m	

33.Details of Total water consumed

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

SEAC-AGENDA-000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10m to 11m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 Nos
	Size of recharge pits :	1.35m dia x 3m depth
	Budgetary allocation (Capital cost) :	Rs. 6.30 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.19 Lacs/Annum
	Details of UGT tanks if any :	Domestic- 150 Cum Fire - 75 Cum
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	5.31 Cum/Min
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	148.91 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	160 KLD- 1 No
	Location & area of the STP:	Shown on Plan
	Budgetary allocation (Capital cost):	Rs. 40.62 Lacs
	Budgetary allocation (O & M cost):	Rs. 7.36 Lacs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	5 Kg/day
	Disposal of the construction waste debris:	Shall be handed over to authorized agency
Waste generation in the operation Phase:	**Dry waste:**	224 Kg/day
	Wet waste:	340 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	14 Kg/day
	Others if any:	E Waste- 634 Kg/Year

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Shall be handed over to Authorized Agency
	Wet waste:	In Situ Composting
	Hazardous waste:	If generated, shall be handed over to Authorized Agency
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	In Situ composting
	Others if any:	E waste shall be handed over to authorized agency
Area requirement:	**Location(s):**	Shown on plan
	Area for the storage of waste & other material:	42 Sqm
	Area for machinery:	Considered in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 4.75 Lacs
	O & M cost:	Rs. 0.80 Lacs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000280

43.Green Belt Development	**Total RG area :**	690 Sqm
	No of trees to be cut :	NIL
	Number of trees to be planted :	86 Nos
	List of proposed native trees :	List given below
	Timeline for completion of plantation :	Before completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	2	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	3	Evergreen tree, fast growing
3	Saraca asoka	Sita Ashok	2	Shady tree with red-yellow flowers
4	Anthocephallus cadamba	Kadamb	2	Shady, large tree, ball shaped flowers
5	Psidium guajava	Peru	3	Medium size , fruit bearing tree
6	Nyctanthes arbor-tristis	Parijatak	2	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
7	Ochna obtusata	Kanak Champa	3	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
8	Murraya paniculatum	Kamini	2	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
9	Manilkara zapota	Chickoo	3	This small tree attracts Birds and Bees. Edible Fruit.
10	Citrus limon	Lemon	3	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
11	Bauhinia racemosa	Apta	2	Native to Pune, this Shrub has a Religious importance
12	Mimusops elengi	Bakul	3	Native, Evergreen Foliage and Flowering tree has dense branching, hence good for Wind screening. Flowers are deeply fragrant and attracts birds and Bees.
13	Pongamia pinnata	Karanj	3	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
14	Mangifera indica	Mango	3	Tall, fruit bearing tree
15	Syzygium cumini	Jambhul	2	Dense ornamental, fruit bearing tree
16	Lagerstroemia reginae	Tamhan	3	This Purple Flowering plant is the State flower of Maharashtra.

SEAC-AGENDA-0000000280

17	Cassia fistula	Bahava	3	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
18	Erythrina variegata	Pangara	3	Native to Western Maharashtra, this Reddish-Orange Flowering and Deciduous tree attracts lot of Birds for the Nectar.
19	Terminalia catapa	Badam	3	Drought tolerant.
20	Terminalia arjuna	Arjuna	3	Large evergreen tree.
21	Bauhinia purpurea	Kanchan	3	Exotic tropical tree that blooms over a long period of time.
22	Michelia champaca	Son Chapha	3	Large evergreen tree.
23	Caryota urens	Fish tail Palm	3	Flowering plant in the palm family.
24	Plumeria alba	Plumera alba	3	Tree with elongated leaves, large and strongly perfumed white flowers with a yellow center. Ornamental plant.
25	Couroupita guianensis	Kailash Pati	3	Deciduous tree. Flowering & Fruit Bearing. Medicinal properties.
26	Khaya anthotheca	Mahogany	3	Large, fast-growing, semi-deciduous tree with a dense crown.
27	Butea monosperma	Palas	3	Medium-sized dry season-deciduous tree.
28	Ficus glomerate	Cluster fig	3	Deciduous tree. Medicinal Properties.
29	Cordia dichotoma	Indian Cherry	3	Flowering Tree.
30	Phyllanthus emblica	Indian gooseberry	3	Small to medium sized deciduous tree. Ayurvedic importance.
31	Dalbergia latifolia	Indian rosewood	3	Single-stemmed deciduous tree with a dome shaped crown of lush green foliage.
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

SEAC-AGENDA-0000000280

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	40 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	1127 KW
	During Operation phase (Demand load):	417 KW
	Transformer:	630 KVA
	DG set as Power back-up during operation phase:	63.5 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Most of the common area & external lighting are proposed to work on high energy efficient lamps(LED) as specified in bureau of energy efficiency which again results in saving in general consumption
Low loss Transformers due to which 6.22% losses are saved against conventional transformer.
Power Capacitors are proposed for load power factor correction and to maintain a healthy power situation. This also results in less demand load factor for the project.
Solar PV, Hot Water, Enegy Efficient Motors are proposed

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV & Solar Hot Water	16 %

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. 26.35 Lacs
	O & M cost:	Rs. 0.34 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	Water for construction & labour	Water requirement	1.5
2	Site sanitation & safety	Health & safety	1.2
3	Environmental Monitoriong	Pollution Monitoring	1.8

SEAC-AGENDA-10000000280

4	Disinfection	Health & safety	0.5
5	Health Check up	Health & safety	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water	RWH Pits	Rs. 6.3 Lacs	Rs. 0.19 Lacs/Annum
2	Sewage Treatment	Waste water management	Rs. 40.62 Lacs	Rs. 7.36 Lacs/Annum
3	Organic waste	Solid waste management	Rs. 4.75 Lacs	Rs. 0.8 Lacs/Annum
4	Tree Plantation	Landscape development	Rs. 2.5 Lacs	Rs. 0.75 Lacs/Annum
5	Energy saving	Energy conservation	Rs. 26.35 Lacs	RS. 0.34 Lacs/Annum
6	Environmental Monitoring	Pollution control	0.0	Rs. 1.8 Lacs/Annum

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

SEAC-AGENDA-0000000280

Parking details:	**Number and area of basement:**	NIL
	Number and area of podia:	2 Nos- 4108 Sqm
	Total Parking area:	4562 Sqm
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	460 Nos
	Number of 4-Wheelers as approved by competent authority:	229 Nos
	Public Transport:	NIL
	Width of all Internal roads (m):	Minimum 6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000280

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 6900 m2, FSI area of 13196.25m2, Non FSI area of 10861.98 m2 and total BUA of 24058.23 m2.

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

SEAC AGENDA 0000000280

DECISION OF SEAC

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

89th SEAC-3 Day 03

SEAC Meeting number: 89 **Meeting Date** June 13, 2019

Subject: Environment Clearance for proposed construction project by M/s Vinayak Enterprises

Is a Violation Case: No

1.Name of Project	"Eastern River Residency"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Kishor Shankar Garve
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S. No 90/1, Kashid Park,
9.Taluka	Haveli
10.Village	Pimple Gurav
Correspondence Name:	Mr. Vinayak Garve
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	S.No. 136/1A, Mumbai Bangalore Highway
Locality:	Opp Sayaji Hotel, Wakad
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 42826.93
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable-2013.59m2
15.Total Plot Area (sq. m.)	11291.60m2
16.Deductions	2453.29m2
17.Net Plot area	8838.31m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25369.65m2
	b) Non FSI area (sq. m.): 17457.28m2
	c) Total BUA area (sq. m.): 42826.93
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 25369.65m2
	Approved Non FSI area (sq. m.): 17457.28m2
	Date of Approval: 05-04-2019
19.Total ground coverage (m2)	2269.16m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.09% of total plot area (11291.60m2) , 25.67% of net plot area (8838.31m2)
21.Estimated cost of the project	579900000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000280

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building- A	P+10	31.90 m
2	Building- B (Commercial)	P+8	26.10 m
3	Building- C	P+12	37.70 m
4	Building- D	P+12	37.70 m
5	Building- E	P+12	37.70 m
6	Building- F	P+12	37.70 m
7	Building- G (MHADA)	P+12	37.70 m

23.Number of tenants and shops	Total Tenements- 441Nos, Offices= 19 Nos. (Resi= 394 Nos., MHADA= 47Nos.)
24.Number of expected residents / users	Residential Users- 1970 Nos, MHADA Users- 235 Nos, Commercial Users- 215 Nos. Total Users: 2420Nos.
25.Tenant density per hectare	391/H
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18m & 45m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Existing hotel on site.
30.Details of the demolition with disposal (If applicable)	Existing hotel will be demolished & debris will be used for landfilling

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000280

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	317.34m3/day (One time)
	Recycled water - Flushing (CMD):	104.59m3/day
	Recycled water - Gardening (CMD):	10.00m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	202.75m3/day
	Fire fighting - Underground water tank(CMD):	300.00m3
	Fire fighting - Overhead water tank(CMD):	140.00m3
	Excess treated water	162.00m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	307.34 m3/day (One time)
	Recycled water - Flushing (CMD):	104.59m3/day
	Recycled water - Gardening (CMD):	0.00m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	202.75m3/day
	Fire fighting - Underground water tank(CMD):	300.00m3
	Fire fighting - Overhead water tank(CMD):	140.00m3
	Excess treated water	172.00m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	NA	NA	NA	NA	NA	NA	NA	NA	NA

SEAC-AGENDA-0000000280

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Level of the Ground water table: Summer Season – 14.00 m. to 21.67 m. BGL. (17.84 M. Average), Rainy Season – 6.33 m. to 10.00 BGL. (8.17 M. Average), Winter Season – 10.17 m. to 15.84 m. BGL. (13.01 M. Average).
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	2.25 m. X 2.25 m. X 1.75 m. Depth with 45 to 60 m. Deep 6" Dia. Bore Well via 2 No. of de-siltation pits of 0.9 m. Dia. 1.0 m. Depth.
	Budgetary allocation (Capital cost) :	Rs. 6.25 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.30 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 305.00 m3 Flushing UG tank Capacity: 99.00 m3 Fire UG tank Capacity: 300.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	5,965.23 m3 / Year i.e. 119.30 m3 / Day, considering 849.30 mm. annual rain fall in 50 days averagely.
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	276.59 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	STP=290m3/day
	Location & area of the STP:	STP= 117.12m2
	Budgetary allocation (Capital cost):	STP = Rs. 81.00 Lakh
	Budgetary allocation (O & M cost):	STP = Rs. 14.64 Lakh / Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	50 Kg/day
	Disposal of the construction waste debris:	Use for Levelling
Waste generation in the operation Phase:	**Dry waste:**	473 Kg/Day
	Wet waste:	684 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	43.11 Kg/Day
	Others if any:	NA

SEAC-AGENDA-0000000280

Mode of Disposal of waste:	**Dry waste:**	Authorized Vendor
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	OWC= 49.50m2
	Area for machinery:	Included in other material area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 17.19 Lakh
	O & M cost:	Rs. 9.02 Lakh/Year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	160 KVA- 1No. (Resi)	HSD-30 Lit/Hr	S-1	5.22	To be provided	To be provided
2	15 KVA- 1No. (MHADA)	HSD- 3.3 Lit/Hr	S-2	2.4	To be provided	To be provided
3	15 KVA- 1No. (Comm)	HSD- 3.3 Lit/Hr	S-3	2.4	To be provided	To be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	36.6 lit/hr @75% Loading	36.6 lit/hr @75% Loading

SEAC-AGENDA-0000000280

41.Source of Fuel	Bharat Petroleum Corporation Limited/ Hindustan Petroleum
42.Mode of Transportation of fuel to site	By Roadway

43.Green Belt Development	**Total RG area :**	985.00 m2
	No of trees to be cut :	-
	Number of trees to be planted :	135 Nos.
	List of proposed native trees :	135 Nos.
	Timeline for completion of plantation :	Mid of Construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca indica	Sita Ashok	9	Fragrant flowers or leaves attracts birds/butterflies/bees, deep green, shiny foliage.
2	Syzygium cumini	Jamun	3	Tall evergreen tree with fruit bearing.
3	Artocarpus heterophyllus	Jackfruit	3	Tall evergreen tree with fruit bearing.
4	Pongamia glabra	Indian Beech	5	Good medicinal use.
5	Neolamarkia cadamba	Kadamba	3	Fruit bearing tree attracts birds.
6	Bauhinia purpurea	Rakta Kanchan	8	Fragrant flowers or leaves plant for pooja, evergreen tree.
7	Mimusops elengi	Bakul	3	Shady tree, small white fragrant flower.
8	Plumeria alba	Champa	22	Evergreen tree with fragrant flowers.
9	Kailashpati couroupita	Kailashpati	3	Evergreen tree with fruit bearing.
10	Poltalthia longifolia	Ashok	3	Ornamental tree.
11	Bombax seiba	Cotton Tree	2	Shady tree, small white fragrant flower.
12	Khaya grandis	khaya	6	Evergreen tree.
13	Azadirachta indica	Neem	3	Plant for pooja/evergreen fragrant flowers or leaves quick growing/insect repellent.
14	Mangifera indica	Mango	3	Tall evergreen tree with fruit bearing.
15	Butea monosperma	Palas	6	Fragrant flowers or leaves flowers covering the entire crown plant for pooja.
16	Albizia lebbeck	Shirish	10	Fragrant flowers or leaves attracts birds/butterflies/bees. Drought tolerant.
17	Caryota urens	Fishtail Palms	5	Tall evergreen tree.
18	Lagerstromia flosregina	Jarul	3	Creates shade, Attracts birds/ butterflies/ bees. Good for screening.

SEAC-AGENDA-0000000380

19	Nyctanthes arbortristis	Parijat	7	Small flowering tree.
20	Michellia champaka	Son chapa	6	Flower butterfly, host plant, medium size evergreen tree, fragrant yellow.
21	Putranjiva roxburghi	Putranjiva	5	Evergreen tree with medicinal use.
22	Cassia fistula	Golden Shower	6	Auspicious, attracts birds/bees/butterflies hanging or weeping growth.
23	Areca catechu	Supari Palms	11	Ornamental nutty 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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA – 1 No
	During Operation phase (Connected load):	1903 KW
	During Operation phase (Demand load):	1113 KW
	Transformer:	2 Nos x 630 KVA
	DG set as Power back-up during operation phase:	1) 160 KVA-01 no.(Resi), 2) 15 KVA- 01 no.(Comm), 3) 15 KVA- 01 no.(MHADA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Measures to reduce energy consumption :
1.Generally we have proposed high efficiency transformer, motors etc. to reduce losses.
2.Electronic Ballasts and Energy efficient lamp source either triposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time. The estimated saving in common lighting consumption is up to 20 % due to adopting above measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total of all Savings for (per year)	20%

50.Details of pollution control Systems

SEAC-AGENDA-0000000280

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	-	STP will be installed & excess treated water used for flushing & gardening.
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	-	Wet waste will be treated in OWC. STP sludge will be used as manure after treatment in OWC dry waste will be given to authorized vendor.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.53.00Lakh
	O & M cost:	Rs. 1.06 Lakh/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air& Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation- Mobile toilets	0.50 Lakh/Year
4	Socio Economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches for Children, Food for children, Personal Protective Equipment	1.00 Lakh/Year

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	Sewage Treatment Plant	Rs. 81.00 Lakh	Rs. 14.64 Lakh/Year
2	RWH	Rainwater Harvesting	Rs. 6.25 Lakh	Rs. 0.30 Lakh/Year
3	MSW (OWC)	Organic Waste Converter	Rs. 17.19 Lakh	Rs. 9.02 Lakh/Year
4	Energy System	-	Rs. 53.00 Lakh	Rs. 1.06 Lakh/Year
5	Landscaping	-	Rs.10.00 Lakh	Rs. 1.20 Lakh/Year
6	Safety Equipments	-	Rs. 10.00Lakh	Rs. 2.00 Lakh/Year
7	Post EC Monitoring	-	-	Rs. 2.50 Lakh/Year
8	Dry Waste Management	-	-	Rs. 2.64 Lakh/Year

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

SEAC-AGENDA-0000000280

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	11532.80 m2
	Area per car:	44.18m2
	Area per car:	44.18m2
	Number of 2-Wheelers as approved by competent authority:	1016 Nos.
	Number of 4-Wheelers as approved by competent authority:	261 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m & 7.50 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	No
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No

SEACAGENDA-00000000280

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 11291 m2, FSI area of 25369.65 m2, Non FSI area of 17457.28 m2 and total BUA of 42826.93 m2.

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

SEAC-AGENDA-0000000280

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP has proposed to provide services of ward boys and housekeeping to hospitals. Instead of this PP to undertake activities like providing electric crematorium, rain water harvesting, solar electricity to schools etc.

2. Fire tender movement plan shall be revised indicating 18 m DP road separately with a different colour so that drive way of 6 m clear width and 1.5 m for services is available.

3. PP to submit cross section at 4 different places indicating width of drive way.

4. PP to submit parking statement showing total number of parking required and proposed as per DCR with area per car as per norms.

5. PP to ensure that MHADA building is part of the Society and the same shall be incorporated in sale deed.

6. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000280

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for Expansion in Environment Clearance for Proposed Residential & Commercial project

Is a Violation Case: No

1.Name of Project	Residential & Commercial project
2.Type of institution	Private
3.Name of Project Proponent	Manikchand Kumar Properties
4.Name of Consultant	Sneha Hi-Tech Products
5.Type of project	Housing project (Residential & Commercial)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environment clearance received from MOEF dt. 24/12/2007 & extension received from Environment Department GoM dt. 11/06/2014 vide no. 21-221/2007-IA.III
8.Location of the project	S. no. 9/1, 9/2/1A to 9/2/7, Village Undri, Pune
9.Taluka	Haveli
10.Village	Undri
Correspondence Name:	Manikchand Kumar Properties
Room Number:	--
Floor:	1st floor, 2413
Building Name:	Kumar Properties
Road/Street Name:	East street
Locality:	Camp
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Sanction layout
	IOD/IOA/Concession/Plan Approval Number: Sanction layout no. CC/3710/16 dated 29/03/2017 & 2019
	Approved Built-up Area: 138851.68
13.Note on the initiated work (If applicable)	A1 to A4, B1, B4 Buildings, 2 nos. of club house, Parking slab 1 & Parking slab 2 are completed and B2 & C3 buildings are under construction at site with total construction area 64058.31 sq. m. is as per EC received.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,01,600 sq. m.
16.Deductions	55,279.97 sq. m.
17.Net Plot area	46,320.03 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 72,691.21 sq. m.
	b) Non FSI area (sq. m.): 66,160.47 sq. m.
	c) Total BUA area (sq. m.): 138851.68
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 72,691.21
	Approved Non FSI area (sq. m.): 66,160.47
	Date of Approval: 29-03-2017
19.Total ground coverage (m2)	19,617.16 sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31%
21.Estimated cost of the project	2290000000

SEAC-AGENDA-0000000282

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	4 Buildings	P + 11 floors	35.955
2	3 Buildings	P + 15 floors	50.00
3	1 Building	2P + 14 floors	50.00
4	2 Buildings	B + 2P + 14 Floors	50
5	3 Buildings	B + P + 22 floors	69.65
6	1 Building (Commercial)	G + Mezz + 2 Floors	12
7	3 Club Houses	G + 1 floor	8.25
8	Multipurpose Hall	G + 1 floor	8.25
9	-	-	-

23.Number of tenants and shops	Tenants: 767 nos. Shops: 2 nos. and Offices: 4 nos.
24.Number of expected residents / users	Residential population: 3835 & commercial users: 89 nos., Total population: 3924 nos.
25.Tenant density per hectare	166 tenants/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)	24 m wide DP road & 60 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000282

Dry season:	**Source of water**	PMC / Recycled water
	Fresh water (CMD):	347 m3/day
	Recycled water - Flushing (CMD):	175 m3/day
	Recycled water - Gardening (CMD):	38 m3/day
	Swimming pool make up (Cum):	11m3/day
	Total Water Requirement (CMD) :	560 m3/day
	Fire fighting - Underground water tank(CMD):	950 m3
	Fire fighting - Overhead water tank(CMD):	20 m3 per residential building
	Excess treated water	233 m3/day
Wet season:	**Source of water**	PMC / Recycled water
	Fresh water (CMD):	347 m3/day
	Recycled water - Flushing (CMD):	175 m3/day
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	11 m3/day
	Total Water Requirement (CMD) :	522 m3/day
	Fire fighting - Underground water tank(CMD):	950 m3
	Fire fighting - Overhead water tank(CMD):	20 m3 per residential building
	Excess treated water	271 m3/day
Details of Swimming pool (If any)	1. Swimming pool Size: 15.5m x 7.00 m x 1.2 m (d) 2. Swimming pool Size: ((3.21 m x 6.54 m)+(11.0 m x 6.54 m)+(4.61 m x 4.73 m)) x 1.2m	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7 - 8 m Below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	22 nos.
	Size of recharge pits :	1.2 m x 1.2 m x 2.5 m depth
	Budgetary allocation (Capital cost) :	Rs. 35 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.5 Lakh/year
	Details of UGT tanks if any :	Domestic UGT: 521 m3 Flushing UGT: 262 m3 Fire UGT: 950 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	46.6 cum/min
	Size of SWD:	450 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	470 KLD
	STP technology:	SMBR
	Capacity of STP (CMD):	Total 4 nos. STP's with total capacity 480 KLD (Existing 80 KLD & 100 KLD and 2 nos. are proposed)
	Location & area of the STP:	Location:1. 1st in between A3 and A4 building. 2. 2nd is at south side of B4 building. 3. 3rd is in between B4 and B5 building 4. 4th is at south side of C2 building and area provided is 220 sq. m.
	Budgetary allocation (Capital cost):	Rs. 143 Lakh
	Budgetary allocation (O & M cost):	Rs. 12 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty cement bags, steel, sand, packaging material, Aggregates
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area
Waste generation in the operation Phase:	**Dry waste:**	780 kg/day
	Wet waste:	1159 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	9 kg/day (Dry sludge)
	Others if any:	E-waste - 2006.50 kg/year

SEAC-AGEND A-0000000282

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Through Mechanical Composter (Smart OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure for gardening purpose or will be disposed off as per CPHEEO manual on sewerage
	Others if any:	E Waste-Handed over to authorized recycler for further handling & disposal purpose
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	80 sq.m.
	Area for machinery:	15 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 23.85 Lakh
	O & M cost:	Rs. 4.00 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		

SEAC-AGENDA-0000000282

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	6274.42 sq. m.
	No of trees to be cut :	NA
	Number of trees to be planted :	810 nos.
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	6 month 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	Lagestromia Flosre Genia	Tamhan	58	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
2	Ficus racemosa	Umber	1	Medicinal value, Edible fruits, Bird attracting species
3	Caryota urens	Fish Tail Palm	8	Tall evergreen tree
4	Syzygium cumini	Jambhul	1	Fast growing evergreen trees, can live more than 100 years, fragrant flowers, edible fruits
5	Azardirachta Indica	Neem	126	Medium sized evergreen tree
6	Tabebuia rosea	rosy trumpet tree	19	Medium sized Flower Bearing Tree and have mdicinal value.
7	Cassia fistula	Bahava	16	Medium sized deciduous tree.
8	Bombax ceiba	Katesavar	55	Large tree, red flowers.
9	Cupressus macrocarpa	Golden cypress	22	Ornamental plant
10	Plumeria rubra	Chafa	34	Ornamental plant, Fragrant flowers
11	Vachellia leucophloea	Hivar	1	Medium sized yellowshish white Flower Bearing Tree
12	Ziziphus mauritiana	Bor	1	medium-sized fruit bearing tree
13	Vachellia nilotica	Kateri Babhul	4	Medium sized Flower Bearing Tree and have mdicinal value.
14	Turraea pubescens Hellen	Bhendi	60	Small flowering Plant
15	Millingtonia	Buch	35	ornamental and the pleasant fragrance
16	Cycas zeylanica	Madug/maha-madu	2	Small to medium sized tree
17	Murrayya paniulate	Kunti	21	Small tree, Fragrant white flowers, Butterfly host plant
18	Albizia lebbeck	Papadi shiras	1	Deciduous flowering tree
19	Hevea brasiliensis	Rabber	1	tall deciduous tree
20	Saraca ashoka	Sita Ashoka	20	Shady trees with yellow flowers
21	Butea monosperma	Palas	20	Medium sized deciduous tree, Beautiful orange flowers, Butterfly host plant

SEAC-AGENDA-0000002022

22	Bauhinia variegata	Kanchan	35	Every part of the plant have medicinal value, Drought tolerant species.
23	Nyctanthus arbor-tritrits	Parijatak	15	Fragrant flowers, Medicinal value,
24	Gmelina arborea	Shivan	25	Fast growing deciduous tree with yellow flower, medical use tree
25	Pongamia pinnata	Karanj	12	Medicinal value, Drought tolerant species, To control soil erosion.
26	Mimusops elengi	Bakul	36	sweet scented flowers, medicinal tree with edible parts
27	Manilkara zapota	Chiku	25	Medium sized Fruit Bearing Tree
28	Dalbbergia sisoo	Shisav	35	Medicinal value, Bird attracting Species
29	Mimosups elengii	Bakul	25	Fragrant flowers, Medicinal value, To control soil erosion
30	Annona squaosa	Sitafal	20	Medium sized Fruit Bearing Tree
31	Ailanthus excelsa	Maharukh	25	Large tree, good for roadside plantation
32	Anthosaphalus kadamba	Kadamb	35	Shady, large tree, ball shaped flowers.
33	Erythrina indica	Pangara	16	Medium sized deciduous tree. Bright scarlet flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	116 kVA
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	6400 KW
	During Operation phase (Demand load):	3459 kVA
	Transformer:	630 kVA x 6 nos. + 315 kVA x 1 no.
	DG set as Power back-up during operation phase:	(125 KVA X 1) + (200 KVA X 1) + (300 KVA X 2)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

SEAC-AGENDA-0000000282

48.Energy saving by non-conventional method:

a. Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.
b. Energy saving using Low Loss Transformer Against Conventional Transformer
c. Energy Saving using Solar PV cell (3.25% of demand load)
d. Energy Saving using Solar Water Heaters against Electrical Heaters
e. Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control
f. Energy Saved by Using VFD for Lift against Non VFD

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.	40.18%
2	Energy saving using Low Loss Transformer Against Conventional Transformer	8.57%
3	Energy Saving using Solar PV cell (3.25% of demand load)	3.25%
4	Energy Saving using Solar Water Heaters against Electrical Heaters	75.34%
5	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control	41.51%
6	Energy Saved by Using VFD for Lift against Non VFD	4.53 %
7	Total Energy Saving in Project by Energy saving measures	16.81%

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. 203 Lakh
	O & M cost:	Rs. 10 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water For Dust Suppression , Air & Noise Monitoring	2.0
2	Water	Tanker Water For Construction, Water Monitoring	3.0
3	Land	Site Sanitation	1.50
4	Socio-Economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Personal Protective Equipment	5.00
5	Environment Monitoring	Air, Water, Noise & DG Stack	0.60

b) Operation Phase (with Break-up):

SEAC-AGENDA-0000000282

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	500 KLD of STP	143	12
2	Rain water harvesting	RWH pits will be provided	35	1.50
3	Solid waste management	To assure proper disposal of Dry and Wet Waste, OWC will be provided for wet waste	23.85	4.0
4	Landscape	Landscaping and gardening	62.8	3.6
5	Energy	Utilization of renewable energy	203	10
6	Environment monitoring	Air,Noise,Water,Effluent tests as per government norms	NA	2.80

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:	4 nos. of junction to the main road

SEAC-AGENDA-0000000282

Parking details:	**Number and area of basement:**	2 No. of Basements with area 8156 Sq.m.
	Number and area of podia:	1 No. of Podium with area 6597 Sq.m.
	Total Parking area:	12,212.50 sq. m.
	Area per car:	12.50 sq. m.
	Area per car:	12.50 sq. m.
	Number of 2-Wheelers as approved by competent authority:	1636 nos.
	Number of 4-Wheelers as approved by competent authority:	977 nos.
	Public Transport:	Available
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a), B2
	Court cases pending if any	Civil court cases no. 622 & 1901
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-11-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000282

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 101600 m2, FSI area of 72691.21m2, Non FSI area of 66160.47 m2 and total BUA of 138851.68 m2.

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

SEAC-AGENDA-0000000282

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP has proposed to provide stationary and school bags to school children. This may be deleted and the amount may be used for providing solar PV panels to schools.

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

Specific Conditions by SEAC:

1) In CER, PP has proposed to provide stationary and school bags to school children. This may be deleted and the amount may be used for providing solar PV panels to schools.

FINAL RECOMMENDATION

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

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for Environment Clearance for Residential and commercial Project 'Royal Entrada'

Is a Violation Case: No

1.Name of Project	'Royal Entrada'
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sunil Adwani (M/s. Five Star Construction Company)
4.Name of Consultant	Sneha Hi-Tech Products
5.Type of project	Residential and Commercial 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	EC was obtained on 17.05.2016 vide letter no. SEAC-III-2013/CR-363/TC-2
8.Location of the project	S. No.138A/1, 138A/2, 138A/3, 138A/4/1, 138A/4/2, 138A/4/3, 138A/4/4, 138A/4/5, 139/2, 139/3, 139/5B, 140/1, 141/A/2
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Mr. Sunil Adwani
Room Number:	309, 310
Floor:	3rd floor
Building Name:	Rainbow Plaza
Road/Street Name:	Rahatni Road
Locality:	Near Shivar Garden
City:	Pune- 400017
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	Building Plans are approved by PCMC
	IOD/IOA/Concession/Plan Approval Number: BP/WAKAD/11/2018 Date 19/01/2018
	Approved Built-up Area: 49472.99
13.Note on the initiated work (If applicable)	Building A, B, C, D & F were completed on site and work of Building E & commercial building is in process. Total constructed area on site is 52,669.89 m2.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	24,953.44 m2
16.Deductions	7,804.97 m2
17.Net Plot area	17,148.47 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30516.40
	b) Non FSI area (sq. m.): 32019.43
	c) Total BUA area (sq. m.): 62535.83
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28,405.16
	Approved Non FSI area (sq. m.): 21,067.83
	Date of Approval: 19-01-2018
19.Total ground coverage (m2)	3,242.19 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.90 %
21.Estimated cost of the project	1310000000.0

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential (A,B,C,D,E,F) Total no. : 6	P + 12	39
2	Commercial	P + 11	36

23.Number of tenants and shops	Residential: 422 BUA of Commercial Bldg.: 3921.34 sq.m.
24.Number of expected residents / users	Residential Buildings: 2,110 nos. Commercial Buildings: 499 nos.
25.Tenant density per hectare	250/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Building A, B, C, D & F were completed on site and work of Building E & commercial building is in process. Total constructed area on site is 52,669.89 m2.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000282

Dry season:	**Source of water**	PCMC water supply/ Recycled water
	Fresh water (CMD):	199.88
	Recycled water - Flushing (CMD):	107.42
	Recycled water - Gardening (CMD):	11.51
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	323.81
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	147.61
Wet season:	**Source of water**	PCMC water supply/ Recycled water
	Fresh water (CMD):	199.88
	Recycled water - Flushing (CMD):	107.42
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	307.30
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	159.12
Details of Swimming pool (If any)	Dimension of Swimming Pool: (13.6 x 5.2 x 1.2) + (5.2 x 2.45 x 0.6) Total water requirement: 92.50 m3 Water requirement for daily make up: 5 m3/day Details of Plant & Machinery used for treatment of Swimming Pool water: 1. Filtration: Use of sand filtration 2. Suction sweeping 3. Ozonisation system	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10-14 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8 nos.
	Size of recharge pits :	1.5 m x 1.5 m x1.5 m
	Budgetary allocation (Capital cost) :	Rs. 5 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakhs/annum
	Details of UGT tanks if any :	Domestic Water: 322 m3 Flushing: 125 m3 Firefighting: 250 m3
35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	0.26 m3/sec
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	280.57
	STP technology:	MMBR
	Capacity of STP (CMD):	1 STP of 300 m3/day
	Location & area of the STP:	Above Ground
	Budgetary allocation (Capital cost):	Rs. 86 Lakhs
	Budgetary allocation (O & M cost):	Rs. 15.84 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	12.5 kg/day from labours
	Disposal of the construction waste debris:	Construction debris, waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of excavation soil will be used for backfilling and remaining will be handed over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	497 kg/day
	Wet waste:	683 kg/day
	Hazardous waste:	Spent oil, oil grease for DG sets, paints.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	28 kg/day
	Others if any:	1554 kg/annum E-waste

SEAC AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	Handed over to SWaCH agency for further handling and disposal
	Wet waste:	Converted to compost using Organic Waste Convertor
	Hazardous waste:	Handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be dried and used as manure for gardening.
	Others if any:	E-waste handed over to authorized vendor
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	13 m2
	Area for machinery:	55 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20.75 Lakhs
	O & M cost:	Rs. 4.23 Lakhs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	2,946.62 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	254
	List of proposed native trees :	List is given below
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	10	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	10	Evergreen tree, fast growing
3	Saraca asoka	Sita Ashok	10	Shady tree with red, yellow flowers
4	Anthocephallus cadamba	Kadamb	8	hady, large tree, ball shaped flowers
5	Lagerstroemia flosregineae	Tamhan	10	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers.
6	Murraya paniculata	Kunti	5	Small tree, fragrant white flowers, Butterfly host plant
7	Manilkara zapota	Chiku	2	Medium size fruit bearing tree
8	Mangifera indica	Mango	2	Tall, fruit bearing tree
9	Syzygium cumini	Jambhul	6	Dense, ornamental fruit bearing tree.
10	Psidium guajava	Peru	2	Medium size, fruit bearing tree
11	Ficus retusa	Nandruk	5	Medium sized , evergreen, shady tree
12	Michelia champaca	Son chafa	6	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
13	Caryota urens	Fishtail Palm	13	Tall evergreen tree
14	Terminalia catapa	Badaam	2	Drought tolerant
15	Terminalia arjuna	Arjuna	5	Large evergreen tree
16	Lagerstromia lanceolata	Crape-myrtle	5	Medium deciduous tree, Flowers attract many birds
17	Dalbergia latifolia	Shisham, Indian rosewood	10	Drought tolerant
18	Terminalia pinaculata	Kindal	2	Drought tolerant
19	Putrnjiva roxburghii	Putravanti	13	Medicinal value, Drought tolerant species
20	Tabebuia avellanedae	Tabebui pink	5	Large deciduous tree, pink flowers
21	Tabebuia argentea	Tabebui yellow	5	Deciduous tree, ornamental yellow flowers
22	Swietenia mahagoni	Mahagony	5	Large evergreen tree
23	Cocos nucifera	Coconut	5	Tall tree bearing woody fruit

SEAC-AGENDA-0000000282

24	Barringtonia racemosa	Corn beef wood	10	Drought tolerant
25	Cassia fistula	Bahava	7	Medium sized deciduous tree, beautiful yellow flowers, butterfly host plant
26	Nytcanthes arbortritis	Parijatak	11	Small deciduous fast growing tree, beautiful flowers
27	Bauhinia racemosa	Apta	5	Small tree with small white flowers, butterfly host plant
28	Erythrina indica	Pangara	5	Medium sized deciduous tree, bright scarlet flowers
29	Plumeria alba	Chafa	24	Fragrant white yellow flowers
30	Hyphorbe lagenicaulis	Bottle palm	11	Drought tolerant flowering tree
31	Ficus racemosa	Umbar	1	Medicinal, ornamental &shade giving tree
32	Muntingia calabura	Singapore cherry	12	Drought-resistant flowering & fruiting tree
33	Cassia renigera	Burmese Pink Cassia	15	Ornamental garden and roadside tree
34	Millingtonia hortensis	Indian Cork tree	7	Ornamental tree with fragrant flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	1 x 100 KVA
	During Operation phase (Connected load):	7245 KW
	During Operation phase (Demand load):	2898 KVA
	Transformer:	5 Nos. of 630 KVA
	DG set as Power back-up during operation phase:	3 nos. of 250 KVA, 1 no. of 180 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

SEAC-AGENDA-0000000282

The following energy conservation methods are proposed in the project:
• Solar water heating systems will be done for bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• LED based lighting will be done in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
• Auto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy
• Water level controllers with timers will be used for Water pumps

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Percentage Saving	17.30%

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. 78 lakhs
	O & M cost:	Rs. 2.83 lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust suppression	To control air pollution	2
2	Site sanitation, Disinfection and safety	To maintain hygienic condition	3
3	Environmental monitoring	Air, water, noise and soil analysis	2
4	Health check-up	To check fitness of workers	2
5	Environment management cell	To manage environmental issues	9

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	To treat sewage	86	15.84
2	Solid waste Management	To treat biodegradable solid waste	20.75	4.23
3	Green belt development	Tree plantation	132	4.44
4	Rain water Harvesting	To harvest rain water	5	0.5
5	Energy efficient equipments	For use of solar lighting and solar heater	78	2.83
6	Environmental Monitoring	Air, water, noise and soil analysis	-	3
7	Environmental management cell	To manage environmental issues	-	7.8

SEAC-AGENDA-0000000282

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:	Entry & exit is connected to 18 M wide DP road
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	8900 m2
	Area per car:	31.8 m2
	Area per car:	31.8 m2
	Number of 2-Wheelers as approved by competent authority:	Required: 1000, Provided: 730
	Number of 4-Wheelers as approved by competent authority:	Required: 271, Provided: 280
	Public Transport:	NA
	Width of all Internal roads (m):	9 to 12 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), B category
	Court cases pending if any	NA
	Other Relevant Informations	NA

SEAC-AGENDA-0000000282

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

SEAC-AGENDA-0000000282

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 24953.44 m2, FSI area of 30516.40 m2, Non FSI area of 32019.43 m2 and total BUA of 62535.83 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. The Committee observed that the Municipal Corporation has given permission to connect excess treated sewage water drain which is against the laws of environment. PP get the same rectified by PMC.

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

Specific Conditions by SEAC:

1) The Committee observed that the Municipal Corporation has given permission to connect excess treated sewage water drain which is against the laws of environment. PP get the same rectified by PMC.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000282

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for proposed Residential and Commercial project.

Is a Violation Case: No

1.Name of Project	'Kumar Palmcrest'
2.Type of institution	Private
3.Name of Project Proponent	M/s. Kumar Properties and Promoters Pvt. Ltd.
4.Name of Consultant	Sneha HiTech Products
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	S.No. 32/8/1, 32/8/2, 32/5B/1
9.Taluka	Haveli
10.Village	Pisoli
Correspondence Name:	Mr. Rajas Vimalkumar Jain (M/s. Kumar Properties and Promoters Pvt. Ltd.)
Room Number:	--
Floor:	3rd Floor,
Building Name:	Kumar Capital, 2413,
Road/Street Name:	East street,
Locality:	Camp Pune,
City:	Pune- 411001.
11.Whether in Corporation / Municipal / other area	Pune Metropolitan Region Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Plan Approved.
	IOD/IOA/Concession/Plan Approval Number: PRH/NASR/644/2010 DT. 03/03/2011
	Approved Built-up Area: 23364.41
13.Note on the initiated work (If applicable)	Buildings A1,A2, A3 (P+11 floors) & A4 upto 4 slabs are constructed on site having total constructed area 12,280.48 sq.m. which is less than 20,000 sq. m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23,800.00 sq. m.
16.Deductions	3,762.00 sq. m.
17.Net Plot area	20,038.00 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25,149.0 sq. m.
	b) Non FSI area (sq. m.): 15,127.93 sq. m.
	c) Total BUA area (sq. m.): 40276.93
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 14,836.68 sq. m.
	Approved Non FSI area (sq. m.): 8,527.73 sq. m.
	Date of Approval: 03-03-2011
19.Total ground coverage (m2)	3,739.69 sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.6 %
21.Estimated cost of the project	480000000.0

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A1	P+11 Floors	34.80
2	Building A2	P+11 Floors	34.80
3	Building A3	P+11 Floors	34.80
4	Building A4	P+11 Floors	34.80
5	Building A5	P+11 Floors	34.80
6	Building A6	P+11 Floors	34.80
7	Commercial Building	G+4 Floor	21.0
8	Clubhouse	G+1 Floor	7.20

23.Number of tenants and shops	Tenements: 346 nos. Shops: 34 nos., Offices: 35 nos.
24.Number of expected residents / users	Residential users: 1730 nos. , Commercial users: 1150 nos. , Total Users: 2880 nos.
25.Tenant density per hectare	250 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)	12.0 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	Buildings A1,A2, A3 (P+11 floors) & A4 upto 4 slabs are constructed on site having total constructed area 12,280.48 sq.m. which is less than 20,000 sq. m.
30.Details of the demolition with disposal (If applicable)	No , The project does not involve any demolition work

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000282

Dry season:	**Source of water**	PMRDA/ Recycled
	Fresh water (CMD):	Residential: 156 m3/day, Commercial: 23 m3/day , Total : 179 m3/day
	Recycled water - Flushing (CMD):	Residential: 78 m3/day, Commercial: 29 m3/day , Total : 107 m3/day
	Recycled water - Gardening (CMD):	20 m3/day
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	306 m3/day
	Fire fighting - Underground water tank(CMD):	300 m3/day
	Fire fighting - Overhead water tank(CMD):	150 m3/day
	Excess treated water	141 m3/day
Wet season:	**Source of water**	PMRDA/ Recycled
	Fresh water (CMD):	Residential: 156 m3/day, Commercial: 23 m3/day , Total : 179 m3/day
	Recycled water - Flushing (CMD):	Residential: 78 m3/day, Commercial: 29 m3/day , Total : 107 m3/day
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	286 m3/day
	Fire fighting - Underground water tank(CMD):	300 m3/day
	Fire fighting - Overhead water tank(CMD):	150 m3/day
	Excess treated water	161 m3/day
Details of Swimming pool (If any)	---	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total : 6 nos. (1 no. Existing)
	Size of recharge pits :	2m x 2m x 2m
	Budgetary allocation (Capital cost) :	Rs. 3.0 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 lakhs/ annum
	Details of UGT tanks if any :	Domestic: 235 m3 Firefighting: 300 m3 Flushing: 80 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	773.22 cum/hr
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	267 m3/day
	STP technology:	MBBR technology
	Capacity of STP (CMD):	1 STP of 210 m3/day (installed on site) & 1 STP of 75 m3/day (proposed on site) , Total capacity: 285 m3/day
	Location & area of the STP:	STP 1: 210 m3/day (installed) , Location: On ground , Area: 125 sq.m. , . STP 2 : 75 m3/day (proposed) , Location: On ground , Area: 40 sq.m.
	Budgetary allocation (Capital cost):	For STP 1: Rs. 9.50 Lakhs (Biological) + Rs. 3.40 Lakhs (Tertiary) Total: Rs.12.90 Lakhs , For STP 2 : Rs. 12.20 Lakhs
	Budgetary allocation (O & M cost):	For STP 1 : Rs. 9.90 Lakhs/annum , For STP 2 : Rs. 6.0 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste will be generated from the building, mainly comprising of waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc. Debris chute will be used to channelize the waste from the building to the point of pick up on ground.
	Disposal of the construction waste debris:	Construction debris will be used for base preparation of road and for site leveling. Dry waste will be handed over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	519 kg/day
	Wet waste:	634 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	7 kg/ day
	Others if any:	E waste: 2015 kg /year

SEAC-CAFEMA-0000000282

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized agency for further handling & disposal purpose.
	Wet waste:	Disposed through Organic Waste Convertor. Generated manure will be used for gardening.
	Hazardous waste:	Handed over to authorized Vendor.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for gardening purpose.
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	86.5 sq.m.
	Area for machinery:	86.5 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 26.00 Lakhs
	O & M cost:	Rs. 4.44 Lakhs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		

SEAC-AGENDA-0000000282

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	2,358.00 sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	135 nos.
	List of proposed native trees :	All native trees proposed which are listed below
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Prunus dulcis	Almond/Badam	56	Deciduous fruit bearing tree
2	Leucaena leucocephala	Subhabul	11	Flowering tree having multiple uses
3	Azadiracta indica	Neem	3	Large tree, good for roadside plantation
4	Hyophorbe lagenicaulis	Bottle Palm	9	Flowering plant species
5	Plumeria alba	Chafa	3	Tree bearing beautiful white flowers
6	Cordia dichotoma	Indian Cherry	16	Fruit bearing tree having medicinal properties
7	Lagerstroemia speciosa	Tamhan	3	Flowering tree with beautiful purple flowers
8	Furcraea foetida	Green Aloe	3	Ornamental flower bearing plant
9	Caryota urens	Fish tail Palm	3	Tall evergreen tree
10	Michelia champaca	Son chafa	1	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
11	Alstonia scholaris	Satwin	10	Shady, large evergreen Tree, white fragrant flowers
12	Phyllostachys aurea	Golden Bamboo	3	Ornamental Bamboo plant for gardens
13	Terminalia mantaly	Madagascar Almond	13	Deciduous Evergreen tree
14	Ficus racemosa	Indian Fig tree	1	Fruit bearing evergreen tree
15	--	Total	135	--
45.Total quantity of plants on ground				

SEAC-AGENDA-0000000282

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 :**	Maharashtra State Electricity Distribution Company Ltd.
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	2447 KW
	During Operation phase (Demand load):	1995 KW
	Transformer:	3 nos. x 630 KVA , 1 no. x 315 KVA
	DG set as Power back-up during operation phase:	1 no. x 125 KVA (for existing A1,A2,A3) , 1 no. x 125 KVA (for A3, A4, A5) , 1 no. x 25 KVA (for Commercial building)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

- Auto Timer control for external & Common lighting
- Use of CFL / LED lamps in all public/ common areas.
- Solar powered water heating .
- Electronic V3F Drives for Elevators
- Solar PV Panel power for common area lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	25500 KWH / Anum
2	Timer Logic Controller	27308 KWH / Anum
3	Electronic V3F drive for Lifts	26957 KWH / Anum
4	Solar Water Heater	180612 KWH / Anum
5	Total	260377 KWH / Anum
6	Total Percentage of Saving	13.34 %

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. 40.02 Lakhs
	O & M cost:	Rs. 2.09 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000282

1	Water For Dust Suppression	Sprinklers system	2.25
2	Site Sanitation & Safety	Mobile toilets, fumigation, Personal protective equipments	2.75
3	Environmental Monitoring	Air, noise, water & soil	2.5
4	Health Check Up	Hospital	2.25
5	Environment Management cell	Formation of cell	7.5
6	--	Total	17.25

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	To harvest rain water	3.0	0.5
2	Sewage Treatment Plant	To treat sewage	25.10	15.90
3	Organic Waste Composter	To treat biodegradable waste	26.00	4.44
4	Tree plantation	To develop green belt area	4	0.5
5	Energy Conservation	Solar water heating systems, Solar photo voltaic generation	40.02	2.09
6	Environment Management Cell	Comprising of society & technical staff	7.5	--
7	Environment Monitoring	Air, noise, water & soil	2.5	--
8	--	Total	108.12	23.43

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no.

SEAC-AGENDA-0000000282

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	8,725.00 sq. m.
	Area per car:	25 sq. m.
	Area per car:	25 sq. m.
	Number of 2-Wheelers as approved by competent authority:	Scooters: 501 nos.
	Number of 4-Wheelers as approved by competent authority:	Cars: 251 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	7.5 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	We have submitted application on PARIVESH/MOEF site, having proposal no. SW/88696/2018.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-12-2018

SEAC AGENDA-00000000282

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 23800 m2, FSI area of 25149 m2, Non FSI area of 15127.93 m2 and total BUA of 40276.93 m2.

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

SEAC-AGENDA-0000000282

DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain CFO NOC for commercial building.

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

Specific Conditions by SEAC:

1) PP to obtain CFO NOC for commercial building.

FINAL RECOMMENDATION

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

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for Proposed Residential project "43 Privet Drive" at S. No. 43, Near Mitcon Institute, Balewadi, Tal. - Mulshi, Dist. – Pune by M/s. S. S. Properties.

Is a Violation Case: Yes

1.Name of Project	Proposed Residential project "43 Privet Drive" at S. No. 43, Near Mitcon Institute, Balewadi, Tal. - Mulshi, Dist. – Pune by M/s. S. S. Properties.
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Sachin Bhandari
4.Name of Consultant	J. M. EnviroNet Pvt Ltd, Sayali jagtap-EIA co-ordinator-9960159156
5.Type of project	Residential project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 43, Near Mitcon Institute, Balewadi
9.Taluka	Mulshi
10.Village	Balewadi
Correspondence Name:	Sayali Jagtap
Room Number:	F3
Floor:	First floor
Building Name:	Dindayal nagar
Road/Street Name:	Medical college oad
Locality:	Katraj
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Sanction received.
	IOD/IOA/Concession/Plan Approval Number: Sanction no. 0579/15 dated 25.05.2015
	Approved Built-up Area: 75546.13
13.Note on the initiated work (If applicable)	Total constructed area on site : 35296 sq. m (FSI 15972.1 sq. m + Non FSI 19323.9 sq. m)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	29334 sq. m
16.Deductions	7865.68 sq. m
17.Net Plot area	21468.32 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 35753.24 sq. m
	b) Non FSI area (sq. m.): 52045.51 sq. m
	c) Total BUA area (sq. m.): 87798.75
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 35753.24 sq. m
	Approved Non FSI area (sq. m.): 39792.89 sq. m
	Date of Approval: 25-05-2015
19.Total ground coverage (m2)	12622.65 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	58.79 %
21.Estimated cost of the project	1250000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	Parking 1 + Parking 2 + 17 floors	58.32m
2	Building B	Parking 1 + Parking 2 + 17 floors	58.32m
3	Building C	Parking 1 + Parking 2 + 20 floors	69.95 m
4	Building D	Parking 1 + Parking 2 + 17 floors	58.32m
5	Building E	Parking 1 + parking 2 + Parking 3 + 17 floors	68.15 m
6	EWS building	Parking + 2 floors	8.91 m
7	Club house	Ground + 1 floor	7.80 m

23.Number of tenants and shops	Residential : 335 (Existing 204 + Proposed 131)
24.Number of expected residents / users	Residential : 1675 no's (Existing 1020 + Proposed 655)
25.Tenant density per hectare	114 per 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)	Existing 30 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Building A : Parking 1 + Parking 2 + 17 floors Building B : Parking 1 + Parking 2 + 17 floors Building D : Parking 1 + Parking 2 + 17 floors Club House : Ground + 1 floors Swimming pool
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

SEAC-AGENDA-000000282

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	150.75
	Recycled water - Flushing (CMD):	76.37
	Recycled water - Gardening (CMD):	42
	Swimming pool make up (Cum):	20
	Total Water Requirement (CMD) :	289.62
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	97.87
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	150.75
	Recycled water - Flushing (CMD):	76.37
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	20
	Total Water Requirement (CMD) :	247.62
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	139.87
Details of Swimming pool (If any)	• Dimension of Swimming Pool: Main Pool area : 204.82 sq. m , Kids pool area : 58.89 sq. m • Water requirement for make up in KLD: 20 kLD • Capital Cost: Rs. 61,25,000 /- • O & M cost: - Rs. 3,00,000 /-	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 22.00 m. to 37.00 m. BGL. Rainy Season – 7.20 m. to 22.00 BGL. Winter Season – 14.60 m. to 29.50 m. BGL
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	10 no's
	Size of recharge pits :	2 m x 2 m x 2 m with 60 m depth
	Budgetary allocation (Capital cost) :	Rs. 20,00,000 /-
	Budgetary allocation (O & M cost) :	Rs. 1,00,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 170.49 KLD Flushing tank Capacity(cum) : 103.47 KLD Fire UG tank Capacity (cum) : 450 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	10826.07 m3 / year.
	Size of SWD:	60 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	216.24 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	STP : 280 KLD
	Location & area of the STP:	Area : 129.65 sq. m
	Budgetary allocation (Capital cost):	Rs. 45,54,000 /-
	Budgetary allocation (O & M cost):	Rs. 12,35,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	40 kg/day
	Disposal of the construction waste debris:	Within site
Waste generation in the operation Phase:	**Dry waste:**	335 kg/day
	Wet waste:	502.25 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	19.46 kg/day
	Others if any:	NA

SEAC AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure after treatment
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	25 sq. m
	Area for machinery:	50 sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16,75,000 /-
	O & M cost:	Rs. 5,30,000 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	Required open space (10 %) : 2560.04 sq. m Total RG area provided : 8938.74 Sq.m • RG on ground – 3144.98 Sq.m • RG on podium – 5185.46 sq. m • RG area under green belt – 492.50 sq. m RG area other than green belt (Jogging tracks, Pathways) : 116.80 sq.
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	299
	Timeline for completion of plantation :	Up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Baahava	49	Pollution tolerant and ornamental
2	Nyctanthes arbor-tristis	Parijat	2	Ornamental
3	Mimusops elengi	Bakul	29	Bird attracting/ Ornamental
4	Michelia champaka	Sonchafa	19	Ornamental
5	Millingtonia Hortensi	Indian cork tree	24	Ornamental
6	Bombax ceiba	Silk cotton tree	37	Ornamental
7	Plumeria Alba	Chafa	15	Ornamental
8	Lagerstroemia Indica	Crape myrtle	49	Ornamental/ drought tolerant
9	Bauhinia Variegata	Rakta Kanchan	31	Ornamental
10	Pongamia Glabra	Karanj	9	Nitrogen fixing ability/ Ornamental
11	Anthocephalus kadamba	Kadamba	12	Ornamental/ shade giving tree
12	Phoenix sylvestris	Date palm	3	Ornamental
13	Areca catechu	Betal nut palm	20	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	Heliconia lady diana	400 mm	146.5
2	Lantana montevidensis alba	300 mm	13.3
3	Pennisetum setaceum alba	450 mm	69.8
4	Strelitzia reginae	600 mm	43.3
5	Ixora duffii pink	300 mm	29.7
6	Cyperus alternifolius	250 mm	2.4
7	Buddleja davidii	300 mm	53
8	Canna dwarf red	300 mm	89.5
9	Heliconia psittacorum	400 mm	35.8
10	Cestrum nocturnum	300 mm	-
11	Spathiphyllum wallisii	300 mm	17.81

SEAC AGENDA-0000000282

12	Bambusa ventricosa	750 mm	72.91

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	25 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	2813.76 KW
	During Operation phase (Demand load):	1382.69 kVA
	Transformer:	2 x 630 KVA & 1 X 315 KVA
	DG set as Power back-up during operation phase:	2 x 250 KVA & 1 X 160 KVA
	Fuel used:	160 KVA: Diesel. 28.41 Ltr/hr 250 KVA x 2 no. : Diesel. 42.57 Ltr/hr
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Timers and contactors will be used to switch on / off common are & external landscape and facade lighting..
2. LED fittings will be used for corridors ,Lobbies and
3. Energy efficient LED lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
4. All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
5. 100 Ltrs Solar water is provided for each flat .
6. Solar PV panel system is proposed for Street lighting & Building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED fittings + Solar PV + Solar hot water system.	16 %

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. 55,72,500 /-
	O & M cost:	Rs. 5,04,750 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

SEAC-AGENDA-0000000282

1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & Safety	Site Safety	Rs. 88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000 /-
5	Health & Safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 45,54,000 /-	Rs. 12,35,000 /-
2	Rain Water Harvesting	10 pits	Rs. 20,00,000 /-	Rs. 1,00,000 /-
3	Solid Waste Management	OWC	Rs. 16,75,000 /-	Rs. 5,30,000 /-
4	Green Belt Development	299	Rs. 26,00,000 /-	Rs. 25,00,000 /-
5	Energy	Solar system	Rs. 55,72,500 /-	Rs. 5,04,750 /-
6	Swimming pool		Rs. 61,25,000 /-	Rs. 3,00,000 /-
7	Environmental Monitoring	Environment management	-	Rs. 1,20,000 /-

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:	Existing 30 m wide DP road

SEAC-AGENDA-0000000282

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	2 no's Area : 14877.41 sq. m
	Total Parking area:	26436.48 sq. m
	Area per car:	30 sq. m
	Area per car:	30 sq. m
	Number of 2-Wheelers as approved by competent authority:	Scooters : 743 , cycles :823
	Number of 4-Wheelers as approved by competent authority:	530
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	none within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	Court case filled by MPCB, Pune for violation , the case no. is 3813/2014
	Other Relevant Informations	The project was presented in 4th EAC meeting dated 19.02.2018 under violation notification & the committee has granted TOR
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

SEAC AGENDA-0000000282

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 29334 m2, FSI area of 35753.24 m2, Non FSI area of 52045.51m2 and total BUA of 87798.75 m2. PP proposes 7 buildings.

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

DECISION OF SEAC

SEAC-AGENDA-0000000282

During discussion following points emerged:

1. In CER, PP has proposed provision of drinking water for adjacent project (Rs. 20 Lakh), skill development program (Rs. 18 Lakh), underground electrical HT line (Rs. 20 Lakh) and cleaning of nalla (Rs. 7 Lakh). These activities are not permitted. PP to revise CER plan and include asset creation activity like RWH, solar electricity to schools etc. useful for community.

2. Two culverts on nalla are required for completing fire drive way movement. The same are not indicated on the plan as well as the approved plan of the PMC. PP to submit the approved plan as well as the plan showing culverts with uniform drive way of 6 m and 1.5 m for services. PP to submit revised fire tender movement plan accordingly.

3. PP to submit revised environment management plan including cost of culverts construction.

4. PP to submit CFO NOC for C and E building.

5. PP to submit survival report of existing planted trees on plot. PP to incorporate local native fruit bearing trees in proposed plantation plan.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000282

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for Environment Clearance for Building Construction Project

Is a Violation Case: No

1.Name of Project	Residential Project: Mount Castle PH2
2.Type of institution	Private
3.Name of Project Proponent	M/s. Sancheti Space (Mr. Kishor Sancheti)
4.Name of Consultant	Sneha HiTech Products
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	P. No.14+15, G. no 860(861), H. No.- 6, G.No.863A + 863 B (864)
9.Taluka	Haveli
10.Village	Wagholi
Correspondence Name:	M/s. Sancheti Space (Mr. Kishor Sancheti)
Room Number:	2145
Floor:	-
Building Name:	Renata Chamber
Road/Street Name:	-
Locality:	Sadashiv Peth, N.C. Phadake Chowk
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: BHA/C.R.NO.919/16-17/ MAUZE- WAGHOLI/ S.NO./G.NO./CTS. NO860/6 AND OTHER , PLOT NO 14+15
	Approved Built-up Area: 12045.03
13.Note on the initiated work (If applicable)	constructed on site as per sanction plan no. NABP REKHANKAN/MAUZE WAGHOLI / TALUKA HAVELI GAT/S.NO 860/6 AND OTHER SA.SAN.PU 3861 dated 24/6/2014
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	9265.61 m2
16.Deductions	-
17.Net Plot area	9265.61 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12045.03 m2
	b) Non FSI area (sq. m.): 8634.28 m2
	c) Total BUA area (sq. m.): 20679.31
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12,045.03 m2
	Approved Non FSI area (sq. m.): 8,634.28 m2
	Date of Approval: 02-02-2018
19.Total ground coverage (m2)	1,332.32 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	14.4%
21.Estimated cost of the project	357000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1	P+11 floors	34.80
2	B1	P+11 floors	34.80
3	C1	P+12 floors	37.05
4	Club house	G+ 1	6.10

23.Number of tenants and shops	272
24.Number of expected residents / users	1360
25.Tenant density per hectare	300/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)	15.00 M Wide 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	Club house of 161.04 m2 was constructed on site as per sanction plan no. NABP REKHANKAN/MAUZE WAGHOLI / TALUKA HAVELI GAT/S.NO 860/6 AND OTHER SA.SAN.PU 3861 dated 24/6/2014
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000282

Dry season:	**Source of water**	Grampanchayat/ Recycled water
	Fresh water (CMD):	122
	Recycled water - Flushing (CMD):	61
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	6
	Total Water Requirement (CMD) :	199
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	25 cum per building
	Excess treated water	100
Wet season:	**Source of water**	Grampanchayat/ Recycled water
	Fresh water (CMD):	122
	Recycled water - Flushing (CMD):	61
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	183
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	25 cum per building
	Excess treated water	110
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

SEAC-AGENDA-0000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 20.25 m. to 25.00 m. BGL. (22.63 M. Average), Rainy Season – 6.00 m. to 10.00 BGL. (8.00 M. Average) , Winter Season – 13.13 m. to 17.50 m. BGL. (15.32 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3
	Size of recharge pits :	2.00 m. X 2.00 m. X 1.75 m
	Budgetary allocation (Capital cost) :	Rs. 3.0 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.25 Lakhs/annum
	Details of UGT tanks if any :	Domestic Water: 265 m3 Flushing: 88 m3 Fire fighting: 75 m3
35.Storm water drainage	**Natural water drainage pattern:**	By Gravity
	Quantity of storm water:	331.24cum/hr
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	171 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	260 m3/day
	Location & area of the STP:	148.0 m2
	Budgetary allocation (Capital cost):	Rs. 59.02 Lakhs
	Budgetary allocation (O & M cost):	Rs. 9.037 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	12.5 kg/day labours
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be used for backfilling and remaining will be hand over to authorize vendor
Waste generation in the operation Phase:	**Dry waste:**	204 kg/day
	Wet waste:	408 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	17 kg/day
	Others if any:	E-waste: 680 kg/annum

SEAC AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling and disposal
	Wet waste:	Will be converted to compost using Organic Waste Convertor [OWC]
	Hazardous waste:	Handed over to authorized Vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for gardening
	Others if any:	E-waste: Sale to authorized vendor
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	19 m2
	Area for machinery:	38 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 lakh
	O & M cost:	Rs. 3 lakh/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	0
	No of trees to be cut :	0
	Number of trees to be planted :	122
	List of proposed native trees :	All native trees proposed which are listed below
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	6	Evergreen tree, fast growing
2	Bauhinia purpurea	Kanchan	9	evergreen tree, fast growing
3	Cassia fistula	Bahava	2	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant
4	Cassia javanica	Pink shower	8	Medicinal shady tree
5	Grevillea robusta	Silver Oak	2	Shady timber given tree
6	Jacaranda mimosifolia	Gulmohur	12	Large flowering avenue tree
7	Lagerstromia lanceolata	Crape-myrtle	8	Medium deciduous tree, Flowers attract many birds
8	Millingtonia hortensis	Jasmine	5	Tall flowering avenue tree
9	Nyctanthes arbor-Tristis	Parijatak	11	Small deciduous fast growing tree, beautiful flowers
10	Plumeria alba	Champa White	9	Medium sized evergreen tree, fragrant white flowers, Butterfly host plant
11	Swietenia mahogani	Mohogany	5	Evergreen timber yielding tree. Used for soil improvement
12	Bauhinia racemosa	Apta	8	Small tree with small white flowers, butterfly host plant
13	Erythrina indica	Pangara	6	Medium sized deciduous tree, bright scarlet flowers
14	Terminalia catappa	Badam	15	Drought tolerant
15	Manilkara zapota	Chiku	8	Medium size fruit bearing tree
16	Mangifera indica	Mango	8	Tall, fruit bearing tree
45.Total quantity of plants on ground				

SEAC-AGENDA-0000006282

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)	75 KW
	DG set as Power back-up during construction phase	1 x 100 KVA
	During Operation phase (Connected load):	1210 KW
	During Operation phase (Demand load):	698 KW
	Transformer:	1 nos. X 630 KVA
	DG set as Power back-up during operation phase:	1 nos. X 315 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Auto timer control for external and common lighting
- Using eco-friendly devices like LED/Timer logic
- Solar powered water heating
- Electronic V3F drives for elevators

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Auto timer control for external and common lighting	10800 KWH/annum
2	Using eco-friendly devices like LED/Timer logic	31536 KWH/annum
3	Solar powered water heating	17426 KWH/annum
4	Electronic V3F drives for elevators	378624 KWH/annum

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. 47.08 Lakhs
	O & M cost:	Rs. 1.69 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust suppression	To control air pollution	2
2	Site sanitation, Disinfection and safety	To maintain hygienic condition	3

SEAC AGENDA-0000000282

3	Environmental monitoring	Air, water, noise and soil analysis	2
4	Health check-up	To check fitness of workers	2
5	Environment management cell	To manage environmental issues	8.4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	To treat sewage	59.02	9.04
2	Solid waste Management	To treat biodegradable solid waste	10	3
3	Green belt development	Tree plantation	22.26	6.42
4	Rain water Harvesting	To harvest rain water	3	0.25
5	Energy efficient equipments	For use of solar lighting and solar heater	47.8	1.69
6	Environmental Monitoring	Air, water, noise and soil analysis	-	3
7	Environmental management cell	To manage environmental issues	-	7.8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no. of junction to 15 m wide road

SEAC-AGENDA-0000000282

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2,449.23 m2
	Area per car:	35 m2
	Area per car:	35 m2
	Number of 2-Wheelers as approved by competent authority:	Required: 391 Provided: 391
	Number of 4-Wheelers as approved by competent authority:	Required: 28 Provided: 28
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	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	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

SEAC AGENDA-0000000282

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 9265.61 m2, FSI area of12045.03 m2, Non FSI area of 8634.28 m2 and total BUA of 20679.31 m2. PP proposes 3 buildings and club house.

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

SEAC-AGENDA-0000000282

DECISION OF SEAC

During discussion following points emerged:

1. PP informed that they will not complete the project in phase wise manner but at one stretch. PP to submit undertaking to this effect.

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

Specific Conditions by SEAC:

1) PP informed that they will not complete the project in phase wise manner but at one stretch. PP to submit undertaking to this effect.

FINAL RECOMMENDATION

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

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for Proposed Residential & Commercial project "ANUTHAM" at S. No. 257A/16A + 16B/1A, S. No. 257A/17A, S. No. 257A/17B/1,2,3, Hadapsar, Pune by M/s. ACE CONSTRUCTIONS.

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial project "ANUTHAM" at S. No. 257A/16A + 16B/1A, S. No. 257A/17A, S. No. 257A/17B/1,2,3, Hadapsar, Pune by M/s. ACE CONSTRUCTIONS.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nilesh Popatlal Gada
4.Name of Consultant	J M EnviroNet Pvt Ltd (EIA-Coordinator-Sayali Jagtap)
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	No
8.Location of the project	S. No. 257A/16A + 16B/1A, S. No. 257A/17A, S. No. 257A/17B/1,2,3
9.Taluka	Haveli
10.Village	Hadapsar
Correspondence Name:	M/s. Ace Constructions.
Room Number:	201
Floor:	2nd Floor
Building Name:	Sai Siddhi
Road/Street Name:	Behind Congress Bhavan
Locality:	Shivajinagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation(PMC)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: CC/2339/17 dated : 13.12.2017
	Approved Built-up Area: 29344.27
13.Note on the initiated work (If applicable)	Total constructed area on site: 10344.84 Sq.m which is below 20,000 sq. M therefore as per MoEF circular dated 21.04.2015 we have no violated EIA notification.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	5620.00 sq. m
16.Deductions	1205.19 sq. m
17.Net Plot area	4414.81 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12701.81 sq. m
	b) Non FSI area (sq. m.): 16642.46 sq. m
	c) Total BUA area (sq. m.): 29344.27
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12701.81 sq. m
	Approved Non FSI area (sq. m.): 16642.46 sq. m
	Date of Approval: 13-12-2017
19.Total ground coverage (m2)	919.42 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.82 %
21.Estimated cost of the project	313800000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A+ Shops	Basement + Ground + 14 floors	45.30
2	Building B1	Basement + Ground + Stilt + Podium + 16 floors	55.35
3	Building B2	Basement + Ground + Stilt + Podium + 16 floors	55.35
4	Building C LIG	Basement + Ground + Stilt + Podium + 16 floors	55.35
5	Club house	Ground + 1	6.75

23.Number of tenants and shops	Residential : 240 Commercial : 10 (6 Shops + 4 Offices)
24.Number of expected residents / users	Residential: 1200 nos. Floating population : 95 no's
25.Tenant density per hectare	250/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)	Width of right of way 60 m from nearest fire station at Amnora Fire station, Pune.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	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

SEAC-AGENDA-0000000282

Dry season:	**Source of water**	Pune Municipal Corporation(PMC)
	Fresh water (CMD):	113.97
	Recycled water - Flushing (CMD):	57.70
	Recycled water - Gardening (CMD):	04
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	175.67
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	84.3
Wet season:	**Source of water**	Pune Municipal Corporation(PMC)
	Fresh water (CMD):	113.97
	Recycled water - Flushing (CMD):	57.70
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	171.67
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	88.3
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

SEAC-AGENDA-000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	02 no's
	Size of recharge pits :	2 m x 2 m x 3 m
	Budgetary allocation (Capital cost) :	Rs. 5,00,000 /-
	Budgetary allocation (O & M cost) :	Rs.50,000 /-
	Details of UGT tanks if any :	Domestic +Raw UGT capacity : 216.55 KLD Flushing UGT capacity : 68.38 KLD Fire UGT capacity : 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	990.6 m3 per annum
	Size of SWD:	200 mm
Sewage and Waste water	**Sewage generation in KLD:**	149 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	164 KLD
	Location & area of the STP:	Area : 131.2 sq. m
	Budgetary allocation (Capital cost):	Rs. 37,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 7,00,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Used within site premises
Waste generation in the operation Phase:	**Dry waste:**	262 kg/day
	Wet waste:	382 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13.41 kg/day
	Others if any:	E-waste : 715 kg/year

SEAC-AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E-waste will be handed over To authorized vendor
Area requirement:	**Location(s):**	Shown in layout
	Area for the storage of waste & other material:	40.5 Sq. m (including machinery area)
	Area for machinery:	considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14,75,000 /-
	O & M cost:	Rs. 3,07,836 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	Open space required : 494.54 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	76 no's
	Timeline for completion of plantation :	up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	FICUS ELASTICA	Rubber	4	DETOXIFIES AIR, REMOVER OF AIR POLLUTANTS
2	AZADIRACHTA INDICA	Neem	7	GOOD DROUGHT RESISTANT, GOOD AIR PURIFIEA AND HAVE MEDICINAL PROPERTIES.
3	ALBIZIA LEBBECK	Shirish	3	THE CAPACITY OF NTORGEN FIXING ,IS DROUGHT RESISTANT, A GOOD SOIL BINDER AND HAVE MEDICINAL PROPERTIES
4	ARTOCARPUS HETEROPHYLLUS	Phanas	3	EXCELLENT WIND BREAKER, HAVE MEDICINAL VALUE AND ATTRACTS BIRDS
5	ERTHYRINA INDICA	Pangara	3	HAVE THE CAPACITY OF INTROGEN FIXING AND ALSO TO REAIN WATER IN THE SOIL
6	CASSIA FISTULA	Bahava	3	ATTRACTS BUTTERFLYS BIRDS AND BEES FOR FLOWERING
7	LAGESTROMIA FOLSREGINEAE	Tamhan	5	DETOXIFIES AIR, REMOVER OF AIR POLLUTANTS
8	PONGAMIA PINNATA GLABRA	Karanj	3	AVE NITROGEN FIXINGCAPACITY AND MEDICIAL PROPERTIES, IS GOOD FOR ECOLOGICAL RESTORATION AND IS A HOST FOR BUTTERFLIES
9	MILLINGTONIA HORTENSIS	Indian cork tree	2	HAVE THE CAPACITY OF INTROGEN FIXING AND ALSO TO REAIN WATER IN THE SOIL
10	TERMINILIA CUNIATA	Arjun	3	HAVE MANY MEDICINAL PROPERTIES
11	BUTEA MONOSPERMA	Palas	3	ATTRACTS BUTTERFLIES, BIRDS AND BEES FOR FLOWERING AND HAVE MEDICIAL PROPERTIES
12	MICHELIA CHAMPACA	Sonchafa	2	ATTRACTS BUTTERFLIES, BIRDS AND BEES FOR FLOWERING AND HAVE MEDICIAL PROPERTIES
13	BAUHINIA RACEMOSA	Apta	3	GOOD DROUGHT RESISTANT GOOD AIR PURIFIEA AND HAVE MEDICINAL PROPERTIES.

SEAC-AGENDA-0000002282

14	PLUMERIA ALBA	Chapha	2	ARE GOOD FOR ORNAMENTAL PURPOSE
15	BAMBUSA VULGARIS	Golden Bamboo Verigated	2	ARE GOOD FOR ORNAMENTAL PURPOSE
16	PHYLLANTHUS ACIDUS	Amla Rai	3	ATTARACT A LOT OF SMALL AND BIG BIRDS AND HAVE MEDICINAL VALUE
17	MANGIFERA INDICA	Mango	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
18	MUTINGIA CALABURA	Singapur Cherry	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
19	MIMUSOPS ELENGI	Bakul	2	ATTARACT A LOT OF SMALL AND BIG BIRDS AND HAVE MEDICINAL VALUE
20	SARACA ASOKA	Sita Ashoka	2	GOOD DROUGHT RESISTANT GOOD AIR PURIFIEA AND HAVE MEDICINAL PROPERTIES. ATTRACT BIRDS
21	NYCTANTHES ARABORTRISTIS	Parijatak	2	ATTARACT A LOT OF SMALL AND BIG BIRDS AND HAVE MEDICINAL VALUE
22	FICUS CARICA	Fig	3	ATTARACT A LOT OF SMALL AND BIG BIRDS
23	MORUS NIGRA	Tuthee	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
24	EUGENIA JAMBOLANA	Jambhul	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
25	Royal Palm	Royal Palm	8	GOOD FOR ORNAMENTAL PURPOSE, MEDICINAL VALUE AND USED FOR AFORESTATION . PROVIDES SHADE
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	NERIUM OLEANDER	0.45	4.0
2	MURRAYA EXOTICA	0.45	4.0
3	FICUS BENJAMINA	0.30	3.6
4	RAPHIS PALIM	0.30	3.6
5	HIBISCUS ROSA SINENSIS	0.25	12.15
6	CATHARANTHUS ROSEA	0.45	6.6
7	HAMELIA PATENS	0.30	37.0
8	TABERNAEMONTANA CORONARIA	0.30	7.2

47.Energy

SEAC-AGENDA-0000000362

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	10 kW
	DG set as Power back-up during construction phase	45 KVA
	During Operation phase (Connected load):	952 KVA
	During Operation phase (Demand load):	857 KVA
	Transformer:	630 kVA & 315 kVA
	DG set as Power back-up during operation phase:	180 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar Hot water system
2. Solar PV

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy efficient Solar lighting for landscape & driveway+ common area lighting + Solar Hot water system + VFD's on lifts	16 %

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. 21,70,000 /-
	O & M cost:	Rs. 62,500 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs. 88,000 /-
4	Environment management	Environment Monitoring	Rs. 1,20,000 /-

SEAC-AGENDA-0000000282

5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 37,00,000 /-	Rs. 7,00,000 /-
2	Rain Water Harvesting	02 no's	Rs. 5,00,000 /-	Rs. 50,000 /-
3	Solid Waste Management	1 OWC	Rs. 14,75,000 /-	Rs. 3,07,836 /-
4	Green Belt Development	76 no's of trees	Rs. 6,67,629 /-	Rs. 1,20,000 /-
5	Energy details	DG set + Solar hot water +PV cells	Rs. 21,70,000 /-	Rs. 62,500 /-
6	Environment Monitoring	Environment management	-	Rs. 14,40,000 /-

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:	The project has direct access from the existing Pune- Solapur Highway

SEAC-AGENDA-0000000282

Parking details:	**Number and area of basement:**	1 Basement, Area: 1694.64 sq. m.
	Number and area of podia:	1 Podium, Area: 1694.64 sq. m.
	Total Parking area:	8469 sq. m
	Area per car:	30 sq. M (For stilt, ground, podium) 35 sq. M(for basement)
	Area per car:	30 sq. M (For stilt, ground, podium) 35 sq. M(for basement)
	Number of 2-Wheelers as approved by competent authority:	Scooters : 480 , cycles : 271
	Number of 4-Wheelers as approved by competent authority:	232 no's
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	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	-

SEAC AGENDA-0000000282

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 5620 m2, FSI area of 12701.81 m2, Non FSI area of 16642.46 m2 and total BUA of 29344.27 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000282

During discussion following points emerged:

1. PP has proposed roadside plantation near New Pune-Solapur Road. PP to give exact location and number of trees to be planted. PP has proposed vegetabke market at Hadapsar and equipments to private hospitals, books -stationary to blind school, various skill development activities and internal road development etc. These activities shall be replaced by some asset creation activity like electric cremation facility, solar electricity to schools, construction of toilet for slums etc. PP to submit revised CER accordingly.

2. PP to submit undertaking regarding no tree cutting.

3. PP to increase RWH pits and submit revised hydrological report.

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000282

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for Proposed Commercial project at S. no. 49 (P), 50/1 (P), Moshi , Pune by M/s. Mrunali Realty LLP

Is a Violation Case: No

1.Name of Project	Proposed Commercial project at S. no. 49 (P), 50/1 (P), Moshi , Pune by M/s. Mrunali Realty LLP
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rahul Bhandari
4.Name of Consultant	J M EnviroNet Pvt Ltd -Ms. Sayali Jagtap (EIA Coordinator)
5.Type of project	Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. no. 49 (P), 50/1 (P)
9.Taluka	Haveli
10.Village	Moshi
Correspondence Name:	Mr.Atul Shinde
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Pune Nashik Highway
Locality:	Bhosari
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8996.58 Sq. M
16.Deductions	1145.48 sq. M
17.Net Plot area	7851.10 sq. M
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19123.20 sq. m
	b) Non FSI area (sq. m.): 14767.54 sq. m
	c) Total BUA area (sq. m.): 33890.74
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1744.69 sq. M
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.22 %
21.Estimated cost of the project	867063386

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	2 Basement + Lower ground + Upper ground + 13 floors	49.50 m (from ground)
2	Building B	Lower Ground + Upper Ground + 6 floors	23.70 m (from ground)

23.Number of tenants and shops	Building A : Shops, Showroom, Multiplex, Hotel, Gymnasium, Restaurants Building B : Showrooms
24.Number of expected residents / users	Building A : 3628 no's Building B : 325 no's TOTAL : 3953 no's
25.Tenant density per hectare	250 /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)	60.00 m & nearest Fire station at Pradhikaran at distance approx. 7.5 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Existing Bungalow
30.Details of the demolition with disposal (If applicable)	Not yet demolished

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000282

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	71.89 KLD
	Recycled water - Flushing (CMD):	83.79 KLD
	Recycled water - Gardening (CMD):	09 KLD
	Swimming pool make up (Cum):	4.95 KLD
	Total Water Requirement (CMD) :	169.63 KLD
	Fire fighting - Underground water tank(CMD):	200 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD
	Excess treated water	47.32 KLD
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	71.89 KLD
	Recycled water - Flushing (CMD):	83.79 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	4.95 KLD
	Total Water Requirement (CMD) :	160.63 KLD
	Fire fighting - Underground water tank(CMD):	200 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD
	Excess treated water	56.32 KLD
Details of Swimming pool (If any)	• Dimension of Swimming Pool: 30’ x 44’3’’ • Total water Requirement in KLD: 164 KL • Water requirement for make up in KLD: 4.95 KLD • Capital Cost: Rs. 35,00,000 /- • O & M cost: - Rs. 1,80,000 /-	

33.Details of Total water consumed

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

SEAC AGENDA-0000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 – 8 m BGL
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	07 no's
	Size of recharge pits :	2 m x 1 m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 2,50,000 /-
	Budgetary allocation (O & M cost) :	Rs. 50,000
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) :115.26 KLD Flushing tank Capacity(cum) : 41 KLD Fire UG tank Capacity (cum) : 200 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	10 m3/day
	Size of SWD:	450 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	140.11 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	150 KLD
	Location & area of the STP:	Area : 90 sq. m
	Budgetary allocation (Capital cost):	Rs. 27,50,000 /-
	Budgetary allocation (O & M cost):	Rs. 9,00,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Will be used within site premises
Waste generation in the operation Phase:	**Dry waste:**	593 kg/day
	Wet waste:	395 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	E-waste : 5.41 kg/day

SEAC AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E- waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	Shown in layout
	Area for the storage of waste & other material:	18.88 sq. m
	Area for machinery:	30.62 sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14,75,000 /-
	O & M cost:	Rs. 3,21,876 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	RG area (10 %) : 872.34 sq. M Total RG provided : 890.83 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	96
	List of proposed native trees :	Provided below-
	Timeline for completion of plantation :	Up to Completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Manikara zopota	Chikoo	01	Fruit bearing tree
2	Michelia champaca	Champa	21	Flowering tree
3	Mimosopes Elengi	Bakul	14	Medium-sized evergreen tree, Its timber is valuable ,used in traditional medicine
4	Ficus Benjamina	Weeping Fig	03	Medium-sized evergreen
5	Cassia fistula	Golden shower	05	Flowering tree
6	Butea monosperma	Flame Tree	03	Evergreen medium size white flowering tree, beautiful foliage and fragrant flower
7	Cassia grandis	Pink shower	06	Flowering tree
8	Bauhinia blackiana	Kanchan	07	Evergreen medium size white flowering tree, beautiful foliage and fragrant flowers
9	Roystonia regia	Royal palm	04	Medium sized medicinal value,bird attracting tree
10	Syzygiam cumini	Jambhul	03	Fruit bearing tree
11	Neolamarkia cadamba	Kadamba tree	01	Large size , shady, ball shaped flowering tree
12	Magnifera indica	Mango	01	Fruit bearing tree
13	Ficus religiosa	Pimpal	01	Medium sized fruit bearing tree, medicinal value,bird attracting tree
14	Ficus benghlensis	Wad	01	Large size , shady, ball shaped flowering tree.
15	Albizia lebbeck	Shirish	01	Large size , shady, ball shaped flowering tree.
16	Azardirachta indica	Neem	01	Semi - evergreen tree with medicinal value.
17	Caryota mitis	Fish tail palm	23	Medium sized fruit bearing tree, medicinal value,bird attracting tree
45.Total quantity of plants on ground				

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

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

SEAC-AGENDA-0000000282

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KVA
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	3397 KW
	During Operation phase (Demand load):	2237 KW
	Transformer:	2 x 1500 KVA
	DG set as Power back-up during operation phase:	2 x 1000 KVA , 400 KVA , 200 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Provision of LED light fitting Provision for common areas , Landscape areas, etc.
2. Solar Street lights
3. Solar hot water heater
4. Solar PV system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED light fittings for common areas , landscape areas + Solar street lights + Solar hot water system + Solar PV	1.3 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 28,00,000 /-
	O & M cost:	Rs. 4,20,000 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-

SEAC AGENDA-0000000282

3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000/-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 27,50,000 /-	Rs. 9,00,000 /-
2	Rain Water Harvesting	07 no's pits	Rs. 2,50,000 /-	Rs. 50,000 /-
3	Solid Waste Management	1 OWC	Rs. 14, 75,000 /-	Rs. 3,21,876 /-
4	Green Belt Development	90 trees	Rs. 9, 31, 907 /-	Rs. 1,17,709 /-
5	Energy details	Solar system	Rs. 28,00,000 /-	Rs. 4,20,000/-
6	Environmental Monitoring	-	-	Rs. 14,40,000 /-
7	Swimming pool	-	Rs. 35,00,000 /-	Rs. 1,80,000 /-
8	Fire Fighting	-	Rs. 30,93,178 /-	Rs. 2,60,000/-
9	Basement Ventilation	-	Rs. 20,00,000/-	Rs.3,00,000/-

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:	Pune nashik highway

SEAC-AGENDA-0000000282

Parking details:	**Number and area of basement:**	2 no's of basement
	Number and area of podia:	NA
	Total Parking area:	7936.6 sq. m
	Area per car:	30 sq .m.
	Area per car:	30 sq .m.
	Number of 2-Wheelers as approved by competent authority:	Scooters :386 no's , Cycles : 99 no's
	Number of 4-Wheelers as approved by competent authority:	313 no's
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 , 8.00 & 12.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km areas
	Category as per schedule of EIA Notification sheet	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	-

SEAC AGENDA-0000000282

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 8996.58 m2, FSI area of 19123.20 m2, Non FSI area of 14767.54 m2 and total BUA of 33890.74 m2.

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

SEAC-AGENDA-0000000282

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP ha proposed medical supplement and medical camps (Rs.19 Lakh). The same shall be replaced by some asset creation activity like electric cremation facility etc. Also, PP to delete activity of food material distribution. PP to submit exact number of tree to be planted. PP to submit revised CER accordingly.

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

Specific Conditions by SEAC:

1) In CER, PP ha proposed medical supplement and medical camps (Rs.19 Lakh). The same shall be replaced by some asset creation activity like electric cremation facility etc. Also, PP to delete activity of food material distribution. PP to submit exact number of tree to be planted. PP to submit revised CER accordingly.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000282

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for IT project

Is a Violation Case: Yes

1.Name of Project	IT Towers
2.Type of institution	Private
3.Name of Project Proponent	Cybage Software Pvt. Ltd.
4.Name of Consultant	Sneha Hi Tech
5.Type of project	Other (IT building project)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Sr. no. 13A/1+2+3/1, Cybage Towers
9.Taluka	Haveli
10.Village	Vadgaon Sheri
Correspondence Name:	Cybage Software Pvt. Ltd. (Ms. Meera Menon)
Room Number:	7474
Floor:	7th floor
Building Name:	Cybage Tower 1
Road/Street Name:	-
Locality:	Vadgaon Sheri
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Building plan was approved by PMC
	IOD/IOA/Concession/Plan Approval Number: CC/1682/14 dated 02/09/2014
	Approved Built-up Area: 41700
13.Note on the initiated work (If applicable)	Both tower 1, 2 & parking tower were completed on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	14347.40 sq.m.
16.Deductions	3586.85 sq.m.
17.Net Plot area	10760.55 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21,516.21
	b) Non FSI area (sq. m.): 20,183.79
	c) Total BUA area (sq. m.): 41700
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 21,516.21
	Approved Non FSI area (sq. m.): 20,183.79
	Date of Approval: 02-09-2014
19.Total ground coverage (m2)	3886.54
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27%
21.Estimated cost of the project	981103000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000282

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower 1	P+G+8	33.63
2	Tower 2	P+G+8	33.63
3	Parking Building	G+6.5	19.65

23.Number of tenants and shops	No. offices: 14
24.Number of expected residents / users	2152
25.Tenant density per hectare	-
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Tower 1, Tower 2 & parking building were constructed on site.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000282

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	54
	Recycled water - Flushing (CMD):	44
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	107
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	41
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	54
	Recycled water - Flushing (CMD):	44
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	98
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	49
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

SEAC-AGENDA-000000282

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6
	Size of recharge pits :	1.5 x1.5x1.5
	Budgetary allocation (Capital cost) :	Rs. 4.5 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakhs/annum
	Details of UGT tanks if any :	UGT 1: 190 cum UGT 2: 190 cum
35.Storm water drainage	**Natural water drainage pattern:**	By gravity
	Quantity of storm water:	0.1803 cum/sec
	Size of SWD:	450 x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	92 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	No. 1 of 100 KLD
	Location & area of the STP:	55 sq.m.
	Budgetary allocation (Capital cost):	Rs. 37 lakhs
	Budgetary allocation (O & M cost):	Rs. 10.8 lakhs
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:**	323 kg/day
	Wet waste:	256 kg/day
	Hazardous waste:	10 litrs/month
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	15 kg/day
	Others if any:	E-waste: 2152 kg/annum

SEAC-AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	Through SWaCH agency
	Wet waste:	Through OWC
	Hazardous waste:	Through authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	E-waste: handed over to authorized vendor
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	8 sq.m.
	Area for machinery:	24 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 12 lakhs
	O & M cost:	Rs. 2.5 lakhs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG set oil	5.1	litrs/month	18	0	18	Through authorized vendor

39.Stacks emission Details

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

40.Details of Fuel to be used

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

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	1435
	No of trees to be cut :	0
	Number of trees to be planted :	153
	List of proposed native trees :	As per list below
	Timeline for completion of plantation :	Already planted

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Manilkara Zapota	Chiku	1	Fruit bearing tree
2	Saraca asoka	Sita Ashok	29	Shady tree with red-yellow flowers.
3	Azadiracta Indica	Neem	6	Large tree, good for roadside plantantion,have medicinal values
4	Albizia lebbeck	Shirish	6	shady tree with yellow green frangent flowers
5	Ailanthus excelsa	Maharukh	8	Large tree, good for roadside plantation
6	Bombax ceiba	Katesavar	25	Large tree, red flowers.
7	Cassia fistula	Bahava	7	Medium sized deciduous tree.
8	Mimusops elengi	Bakul	5	Medium sized tree, beautiful purple flowers
9	Nyctanthes arbortristis	Parijatak	9	small sized deciduous tree.Fragrant flowers, Medicinal value
10	Murraya paniculata	Kunti	4	Small tree, Fragrant white flowers, Butterfly host plant
11	Gmelina arborea	Shivan	6	fast growing deciduous tree with yellow flower, medical use tree
12	Bauhinia racemosa	Apta	3	Small tree with small white flowers
13	Mangifera Indica	Mango	4	Evergreen with huge canopy and fruit bearing tree
14	Ficus racemosa	Umber	1	Shady tree and fruit bearing tree
15	Punica protopunica	Dalimb	1	fruit bearing tree
16	Syzygium cumini	Jamun	1	fruit bearing tree
17	Swietenia	Mahogany	27	It has beauty, durability, and color, and used for paneling and to make furniture, boats, musical instruments
18	Plumeria rubra	Chafa	4	Ornamental plant, Fragrant flowers
19	Mimusops elengi	Bakul	6	sweet scented flowers, medicinal tree with edible parts
45.Total quantity of plants on ground				

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

SEAC-AGENDA-0000000282

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)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	3891 KVA
	During Operation phase (Demand load):	3000 KVA
	Transformer:	2 nos. of 2000 KVA
	DG set as Power back-up during operation phase:	6 nos. of 500 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 Energy efficient LED against Conventional CFL
Use of Low Loss Transformer Against Conventional Transformer
Solar PV
Automatic Timer logic controller for lighting Control Against No timer Control
Use of VFD for Lift against convensional drive

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saved by Modern Energy efficient LED against Conventional CFL	42.97%
2	Energy saving using Low Loss Transformer Against Conventional Transformer	8.82%
3	Energy Saved by Solar PV	4.05%
4	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control	34.01%
5	Energy Saved by Using VFD for Lift against conventional drive	20%
6	Total Energy saved in Project by Energy saving measures	6.97%

50.Details of pollution control Systems

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

SEAC-AGENDA-0000000282

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 243 Lakhs
	O & M cost:	Rs. 7.3 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water For Dust Suppression , Air & Noise Monitoring	3.00
2	Water	Tanker Water For Construction, Water Monitoring	1.50
3	Land	Site Sanitation	2.00
4	Socio-Economic	Control, First Aid Facilities, Health Check Up, Personal Protective Equipment	5.00
5	Environment Monitoring	Air, Water, Noise & DG Stack analysis	1.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	To treat sewage	37	10.8
2	OWC	To treat wet waste	12	2.5
3	Energy Saving measures	To conserve the energy	243	7.3
4	Tree Plantation	To develop green area	10	0.5
5	Environment Monitoring	Air, Water, Noise, Soil, sewage & manure analysis	-	3
6	Rain Water Harvesting	To harvest the rain water	4.5	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

SEAC-AGENDA-0000000282

	Nos. of the junction to the main road & design of confluence:	1 junction to 18 m wide DP road
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	13005 sq.m.
	Area per car:	Covered: 33 sq.m., Open: 27 sq.m.
	Area per car:	Covered: 33 sq.m., Open: 27 sq.m.
	Number of 2-Wheelers as approved by competent authority:	Required: 1032, provided: 1032
	Number of 4-Wheelers as approved by competent authority:	Required: 387, Provided: 405
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	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	-

SEAC AGENDA-0000000282

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-

Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 14347.40 m2, FSI area of 21516.21 m2, Non FSI area of20183.79 m2 and total BUA of 41700 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. The proposal is appraised as category 8(a) B2.

DECISION OF SEAC

PP informed that they have carried out construction admeasuring 41,700 m2 on site, which is violation of Environmental Impact Assessment Notification, 2006 r.w. Environment (Protection) Act, 1986.

The Committee decided to **refer the proposal to SEIAA** for further needful action.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

SEAC-AGENDA-0000000282

89th SEAC-3 day 04

SEAC Meeting number: 89 **Meeting Date** June 14, 2019

Subject: Environment Clearance for "Mulik Luxuria" Residential cum Commercial Project

Is a Violation Case: No

1.Name of Project	"Mulik Luxuria"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vishal Mulik
4.Name of Consultant	SD Engineering Services Pvt. Ltd.
5.Type of project	Residential cum commercial development.
6.New project/expansion in existing project/modernization/diversification in existing project	New project (Obtaining EC as per sanction)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC received vide letter no. SEAC- III- 2015/CR. 51/ TC-III Dated: 12th July, 2016
8.Location of the project	Gat. No. 1182, 1183, 1184 BAIF Road,
9.Taluka	Haveli
10.Village	Wagholi
Correspondence Name:	Mr. Vishal Mulik
Room Number:	S.N. 28
Floor:	--
Building Name:	--
Road/Street Name:	Pune-Nagar Road
Locality:	Ramwadi
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Sanctions received vide letter no. PRH/NASR/41/2015 Dated 18th March, 2015 From Collector, Pune and BHA C. R. No. 118/18-19 Mouza Wagholi Dated 11th July 2018 from PMRDA
	IOD/IOA/Concession/Plan Approval Number: Sanctions received vide letter no. PRH/NASR/41/2015 Dated 18th March, 2015 From Collector, Pune and BHA C. R. No. 118/18-19 Mouza Wagholi Dated 11th July 2018 from PMRDA
	Approved Built-up Area: 46859.39
13.Note on the initiated work (If applicable)	Wing B, C & Club House-Completion Certificate Received, All Services (STP, OWC, UGWT, DG set, Swimming pool & Transformer)- Constructed and Wing E- Under Construction.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	29,000 sq. m
16.Deductions	4,350 sq. m
17.Net Plot area	24,650 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30, 971.79
	b) Non FSI area (sq. m.): 19, 889.99
	c) Total BUA area (sq. m.): 50861.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 26,858.67
	Approved Non FSI area (sq. m.): 20,000.72
	Date of Approval: 11-07-2018
19.Total ground coverage (m2)	5, 397.64
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.9
21.Estimated cost of the project	850000000

SEAC-AGENDA-0000000282

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	P+12	37.72
2	Wing B	P+12	37.72
3	Wing C	P+12	37.72
4	Wing D	P+12	37.72
5	Wing E	P+12	37.72
6	Wing F (commercial)	B+G+2	10.80
7	Club House	G+1	7.35

23.Number of tenants and shops	Tenement – 498 and Shops- 14 Offices- 16
24.Number of expected residents / users	Residential: 2490 nos. Commercial: 456 nos.
25.Tenant density per hectare	202
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Wagholi fire station. Easy access for fire tender movement from all around the building is 9 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	Wing B, C & Club house completed, Wing E Work initiated, Swimming Pool & Services as per EC
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-0000000282

Dry season:	**Source of water**	Local Body
	Fresh water (CMD):	238
	Recycled water - Flushing (CMD):	123
	Recycled water - Gardening (CMD):	21
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	382
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	Residential: 20 (Each Building) & Commercial: 10
	Excess treated water	143
Wet season:	**Source of water**	Local Body
	Fresh water (CMD):	238
	Recycled water - Flushing (CMD):	123
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	361
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	Residential: 20 (Each Building) & Commercial: 10
	Excess treated water	164
Details of Swimming pool (If any)	• Dimension of Swimming Pool: Size of Main Pool: 10.2m X 5.2m X 1.2m Size of Main Pool: 03m X 2.8m X 0.45m • Total water Requirement in CUM: 1000 lit/day • Water requirement for make up in CUM: 5 CUM/day • Details of Plant & Machinery used for treatment of Swimming pool water: High rate sand filter media, Self Priming Pump, Control panel for pump, vacuum fitting. Chemicals required for maintaining the swimming Pool TCCA (Trichloroicocynuric Acid) granules, Ozonators& Ultra Violet sterilizers. Disinfection by: Chlorination • Capital Cost: 3.16 Lakh O & M cost: - 1.92 lakh	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**

SEAC-AGENDA-0000000282

Fresh water requirement	Not applicable	238	238	Not applicable	23.8	23.8	Not applicable	214.2	214.2
Domestic	Not applicable	123	123	Not applicable	12.3	12.3	Not applicable	110.7	110.7
Gardening	00	21	21	00	21	21	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7 pits
	Size of recharge pits :	Size-2 m X 2 m X 2 m
	Budgetary allocation (Capital cost) :	14 Lakh
	Budgetary allocation (O & M cost) :	0.7 Lakh/ annum
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum): 414 Flushing tank Capacity(cum): 120 Fire UG tank Capacity (cum): 350
35.Storm water drainage	**Natural water drainage pattern:**	Slopping from Northwest to Southeast
	Quantity of storm water:	0.46 m3/sec
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	318 & 19 m3/day
	STP technology:	SMBR
	Capacity of STP (CMD):	330 CUM/day and 25 CUM/day
	Location & area of the STP:	Near Wing F STP AREA – 175 SQM
	Budgetary allocation (Capital cost):	Residential STP: 1 Cr. Commercial STP: 11 lakh/annum
	Budgetary allocation (O & M cost):	Residential STP: 12 lakh/annum & Commercial STP: 3.12 lakh/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	EXCAVATION: Excavated soil:1380 CUM Hard Strata Excavation: 920 CUM
	Disposal of the construction waste debris:	Used for filling
Waste generation in the operation Phase:	**Dry waste:**	480 kg/day
	Wet waste:	731 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Residential: 69 kg/day and Commercial: 7 kg/day
	Others if any:	NA

SEAC-AGENDA-0000000282

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorize recyclers.
	Wet waste:	Treatment in Organic Waste Converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Near STP
	Area for the storage of waste & other material:	OWC AREA – 90 SQM
	Area for machinery:	INCLUDED IN ABOVE
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15.98 Lakh
	O & M cost:	1.94 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	160	36.4 liter/Hr.	1	4.75	125 mm	300 degree C.
2	400	76 liter/Hr.	1	6.8	450 mm	550 degree C.

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Diesel	Diesel	Diesel
41.Source of Fuel		Authorized Dealer		
42.Mode of Transportation of fuel to site		By Road		

SEAC-AGENDA-0000000282

43.Green Belt Development	**Total RG area :**	2,900 sq. m
	No of trees to be cut :	NA
	Number of trees to be planted :	396
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	Before Completion of Project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	08	Medicinal value, Drought tolerant species.
2	Albizialebek	Shirish	08	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3	Anthocephaluskadamba	Kadamb	08	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
4	Azardirachtaindica	Neem	25	Medicinal value, To control soil erosion. To improve soil erosion
5	Bauhinia blackiana	Kanchanraj	08	Every part of the plant is medicinal, Drought tolerant species.
6	Bauhinia purpurea	Gulabikanchan	09	Every part of the plant is medicinal, Drought tolerant species.
7	Buteamonosperma	Palas	08	Medicinal value, Bird attracting species, To control soil erosion.
8	Cassia fistula	Bahawa	08	Medicinal value, Drought tolerant species, very ornamental, well flowering plant, Honey bee attracting species, Host plant for Butterfly.
9	Choclospermumreligiosum	Sonsawar	08	Medicinal value, Native species
10	Cordiadichotoma	Bhokar	08	Medicinal value, Edible fruits
11	Dalbergiasissoo	Shisav	31	Medicinal value, Bird attracting species.
12	Ficusarnottiana	Payar	08	Drought tolerant species, Bird attracting species. To control soil erosion.
13	Ficusglomerata	Umber	08	Medicinal value, Edible fruits, Bird attracting species
14	Ficusretusa	Nandruk	08	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
15	Phyllanthusemblica	Awala	08	Medicinal value, to control soil erosion.
16	Mangiferaindica	Mango	08	Edible fruit, Bird attracting species.

SEAC-AGENDA-0000000282

17	Micheliachampaca	Sonchaffa	08	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
18	Pongamiapinnata	Karanj	04	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
19	Saracaindica	Sita-ashok	04	Medicinal value, Religious plant.
20	Syzygiumcumini	Jamun	05	Medicinal value, Edible fruit.
21	Bahunia racemosa	Apta	15	Every part of the plant is medicinal, Drought tolerant species.
22	Caryota urens	Fishtail palm	18	Grown in any type of soil. Very Hardy.
23	Citrus species	Lemon	23	Medicinal value, Edible fruit.
24	Erythrina indica	Pangara	19	Fragrant flowers, Drought tolerant species, Birds attracting
25	Gmelina arborea	Shivan	16	Medicinal value, Drought tolerant species, Bird attracting species.
26	Mimosups elengii	Bakul	15	Fragrant flowers, Medicinal value, to control soil erosion.
27	Murraya koengii	Kadipatta	23	Medicinal value, Edible leaves.
28	Aegle marmelos	Bel	22	Medicinal value, Drought tolerant species.
29	Nyctanthus arbortristis	Parijatak	23	Fragrant flowers, Medicinal value.
30	Putrnjiva roxburghii	Putrnjiva	16	Medicinal value, Drought tolerant species.
31	Roystonia regia	Bottle palm	16	Ornamental plant, Medicinal value, Birds & bats eat fruits.
45.Total quantity of plants on ground				

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

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

47.Energy

SEAC-AGENDA-000000282

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	76.75 KW
	DG set as Power back-up during construction phase	82.5 KVA
	During Operation phase (Connected load):	3014.50 kW
	During Operation phase (Demand load):	2637.69 kW
	Transformer:	4 X 630 KVA
	DG set as Power back-up during operation phase:	Residential: 1 X 160 kVA and Commercial: 1 X 400 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Energy saving using Conventional T5 FTL/CFL fixture with Energy LED fixtures.
2. Energy saving using Automatic Timer operation Against Manual operation for External & common Lighting.
3. Energy saving using Solar Water Heater Against Electrical Water Heater.
4. Energy saving in Conventional Transformer Vs Low Loss Transformer

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving using Conventional T5 FTL/CFL fixture with Energy LED fixtures.	45.7
2	Energy saving using Automatic Timer operation Against Manual operation for External & common Lighting.	33.33
3	Energy saving using Solar Water Heater Against Electrical Water Heater.	85.94
4	Energy saving in Conventional Transformer Vs Low Loss Transformer	5

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Existing	Not applicable
OWC	Existing	Not applicable
DG set	Existing	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	64.6 Lakh
	O & M cost:	1.90 Lakh/ annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

SEAC AGENDA-10000000282

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	1.92
2	Water Environmental	Tanker water for construction (Tanker Considered in above), Water for worker, Water monitoring	1.464
3	Land Environment	Site Sanitation –toilets	4.2
4	Biological Environment	Gardening Set up and Top soil Preservation Cost	28.00
5	Socio-economic Environment	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Crèches For Children, Personal Protective Equipment	2.985
6	Energy Conservation	CFL lamps for labor hutments	0.04

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	111.00	15.12
2	Rain Water Harvesting	Recharge pit	14	0.7
3	Solid Waste Management	OWC	15.98	1.94
4	Green Belt Development	Plantation	25	6.65
5	Energy Use	Solar water heating	48.40	0.96
6	Cost for sewage pumping	Pumps	6.5	0.7
7	Environmental Monitoring	EMP costing	MoEFCC approved laboratory	19.6

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

SEAC-AGENDA-0000000282

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	4,389.90 sq. m
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	880 Nos.
	Number of 4-Wheelers as approved by competent authority:	237 Nos.
	Public Transport:	PMPML bus
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 Km
	Category as per schedule of EIA Notification sheet	8a (B2)
	Court cases pending if any	NA
	Other Relevant Informations	SEAC has recommended the proposal for BUA (50,861.78 sq. m) in 37th meeting. SEIAA granted EC as per sanction received dated 18th March, 2015 for BUA 43,729.07 sq. m Now we have obtained sanction Dated 11th July 2018 from PMRDA for BUA 46,859.39 sq. m.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

SEAC-AGENDA-0000000282

Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP remained absent. The Proposal was deferred.

DECISION OF SEAC

PP remained absent. The Proposal was deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

SEAC-AGENDA-0000000282