Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Expansion in Environment Clearance for Project Sobha Elanza by Sobha Ltd.

Is a Violation Case: No

1.Name of Project	Sobha Elanza
2.Type of institution	Private
3.Name of Project Proponent	Sobha Limited through Mr. Atul Agharkar
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., Thane, Maharashtra
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	Yes, we have received Environmental Clearance for project from Govt. of Maharashtra file no. SEAC III-2015/CR.107/TC.3 dated 03.12.2016 for built up area 53,368 m2.
8.Location of the project	Survey No. 77/1, Plot no.1
9.Taluka	Haveli
10.Village	Kothrud
Correspondence Name:	Sobha Limited
Room Number:	NA
Floor:	5th Floor
Building Name:	Parakh House
Road/Street Name:	No. 1 Boat Club Road
Locality:	Bund Garden
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate received
	IOD/IOA/Concession/Plan Approval Number: CC/0334/18 dated 08.05.2018
	Approved Built-up Area: 34394
13.Note on the initiated work (If applicable)	We have received EC for the Construction area 53,368 m2. Primove Nala constructions is partially completed at site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	27,499 m2
16.Deductions	15,353 m2
17.Net Plot area	12,146 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 34,394 m2
	b) Non FSI area (sq. m.): 36,324 m2
	c) Total BUA area (sq. m.): 70718
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 36,439 m2
	Approved Non FSI area (sq. m.): 34,722 m2
	Date of Approval: 08-05-2018
19.Total ground coverage (m2)	4,982 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41%
21.Estimated cost of the project	2568300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	Block 1	P1+P2+P3+P4 (Gr. Fl.) +P5+20 Floors	69.95
2	Block 2	P1+P2+P3+P4 (Gr. Fl.) + P5+20 Floors	69.95
3	Block 3	P1+P2+P3+P4 (Gr. Fl.) +P5+19 Floors	66.80
4	Club House	P1+P2+P3+P4(Gr. Fl.) +P5+01 Floor	10.50

23.Number of tenants and shops	272 nos. of tenents
24.Number of expected residents / users	Total population = 1,632 nos. (Permanent population- 1360 nos. & Floating population- 272 nos.)
25.Tenant density per hectare	307/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- Kothrud & width road from nearest fire station to the proposed building – 36 m wide road abutting the site
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, 7 nos. temporary structures including security cabin
30.Details of the demolition with disposal (If applicable)	Cabins material will send to authorized vendor and old structure material will be used for filling within project site.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	131 m3/day
	Recycled water - Flushing (CMD):	68 m3/day
	Recycled water - Gardening (CMD):	21 m3/day
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	199 m3/day
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	60 m3
	Excess treated water	81 m3/day
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	131 m3/day
	Recycled water - Flushing (CMD):	68 m3/day
	Recycled water - Gardening (CMD):	11 m3/day
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	199 m3/day
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	60 m3
	Excess treated water	92 m3/day
Details of Swimming pool (If any)	Swimming pool Dimension: 254 m2 x 1.20 m & 48 m2 x 0.60 m Total water Requirement - 333 m3 Water requirement for make up - 5 m3/day • Filtration Capacity:72.80 cum /hr. (Appox. 5 hr turn over time) • Filtration Equipment: i. 1200 mm dia Bobbin Wound Filter with 2" Multiport valve ii. Splash Monoblock pump 2 HP (Self priming pump) for Filtration • Disinfection by Chlorination & pH Control.	

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:**	Variable between 4 m to 8m below ground level
	Size and no of RWH tank(s) and Quantity:	1 no. with Size : 41 m2 X 4 m. + (0.50 m. FB) and 154 m3 of quantity
	Location of the RWH tank(s):	At North-East Corner below P1 level.
	Quantity of recharge pits:	14 nos.
	Size of recharge pits :	1.5 m dia. x 3.50 m depth
	Budgetary allocation (Capital cost) :	Rs. 23 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1 Lakh/year
	Details of UGT tanks if any :	Domestic: 199 m3 (Domestic 154 m3 +Drinking 45 m3) Flushing: 60 m3 Fire: 300 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per contour slope of the plot
	Quantity of storm water:	8 m3/min
	Size of SWD:	400 mm dia.
Sewage and Waste water	**Sewage generation in KLD:**	179 m3/day
	STP technology:	Extended Aeration with Ultra filtration
	Capacity of STP (CMD):	1 no. of STP having capacity 220 m3/day
	Location & area of the STP:	Partly open to sky and Partly below P1 Level at east side. Area of STP - 297 m2
	Budgetary allocation (Capital cost):	Rs. 59 Lakh
	Budgetary allocation (O & M cost):	Rs. 18 Lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	32,055 m3
	Disposal of the construction waste debris:	Will be used for back filling & leveling of the plot.
Waste generation in the operation Phase:	**Dry waste:**	272 kg/day
	Wet waste:	408 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	2 kg/day- Dry sludge
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Through Organic Waste Converter having capacity 450 kg/day
	Hazardous waste:	NA
	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):**	At south east corner of project site
	Area for the storage of waste & other material:	66 m2
	Area for machinery:	5 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14 Lakh
	O & M cost:	Rs. 7 Lakh/Year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1,326 m2
	No of trees to be cut :	33 nos. from total plot area as per tree cutting NOC
	Number of trees to be planted :	240 nos. in net plot area (Existing trees are - 451 nos. & trees to be transplanted are - 47 nos. in total plot area)
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	NA

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	Acacia nilotica	Babhul	15	Shady, large deciduous tree, yellow powderpuff flowers.
2	Khaya grandis	Mohagani	15	Large tree, good for roadside plantation
3	Mesua ferrea	Nag Keshar	15	Medium sized tree, with pink to red highlight leaves
4	Pongamia pinnata	Karanj	15	Shady tree
5	Saraca Indica	Sita Ashok	15	Shady tree with red yellow flowers.
6	Cassia fistula	Bahava	10	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant.
7	Mimiusops elengi	Bakul	10	Shady tree, small white fragrant flowers
8	Nyctanthus arbor-tritis	Parijatak	10	Small Deciduous fast growing tree bears fragrant flowers
9	Lagerstroemia flos-regineae	Taamhan	10	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
10	Murraya paniculata	Kunti	15	Small tree, Fragrant white flowers, butterfly host tree
11	Gmelina arborea	Shivan	15	Fast growing tree with beautiful yellow flowers.
12	Bauhinia racemosa	Apta	15	Small tree, fragrant whiteflowers, butterfly host tree
13	Azadirachta indica	Neem	20	Semi- evergreen tree with medicinal properties
14	Erythrina variegata	Pangara	20	Medium sized deciduous tree, Bright scarlet flowers
15	Butea monosperma	Palas	15	Medium deciduous tree with bright flowers
16	Micheliachampaka	Son Chafa	25	Medium sized evergreen tree, fragrant yellow flowers
17	Total	-	240	-
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)	148 kW
	DG set as Power back-up during construction phase	1 no. x 50 kVA and 1 no. x 125 kVA
	During Operation phase (Connected load):	2,456 kVA
	During Operation phase (Demand load):	2,456 kVA
	Transformer:	4 nos. x 630 kVA
	DG set as Power back-up during operation phase:	3 nos. x 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

LED light & Solar water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Common area lighting with LED bulbs	24 % of energy saving
2	Solar Water heating system	20%, 125 litre/flat (only for top 4 floors of each Block)
3	Energy efficient pumps	Minimum 3 Star rated pump
4	Timer for Staircase lighting, Lift Lobby, Parking area and street lights and landscape lighting	Street lights and landscape lightings

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. 108 Lakh
	O & M cost:	Rs. 2 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Water for Dust Suppression	During the construction phase, water will be required for sprinkling for suppression of dust and for construction purpose.	4
2	Site Sanitation & Safety	Toilet facility provided to the labours	179
3	Environmental Monitoring	Ambient air, drinking water, noise and soil testing on monthly basis.	3
4	Disinfection	Cleaning and maintaining the site	12
5	Health Check up	Weekly health check up at site and medicines.	12
6	Total (A)	-	210

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	14 nos. of recharge pits	23	1
2	Sewage Treatment Plant	1 no. of STP having capacity of 220 m3/day	59	18
3	Organic Waste Composting	2 no. of OWC unit having total capacity 450 kg	14	7
4	Tree Plantation	Landscaping	10	8
5	Energy saving	LED & Solar	108	2
6	Environment Monitoring	Air, Water, Noise, Soil, surface water, STP treated water etc.	MoEF approved laboratory	1
7	Laying of Storm & Sewer line upto final disposal point	-	21	1
8	Total	-	235	38

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.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	20,187 m2
	Area per car:	32 m2
	Area per car:	32 m2
	Number of 2-Wheelers as approved by competent authority:	Scooters-644 nos. & Cycles – 604 nos.
	Number of 4-Wheelers as approved by competent authority:	619 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a), B2
	Court cases pending if any	NA
	Other Relevant Informations	We have received Environmental Clearance for project from Govt. of Maharashtra file no. SEACIII-2015/CR.107/TC.3 dated 03.12.2016.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-01-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Expansion of Project "Sobha Elanza" on Survey No. 77/1, Plot no.1 at village Kothrd, Tal Haveli, Dist Pune by by Sobha Ltd.

PP submitted their application for Expansion of Environmental clearance for total plot area of 27,499 Sq. Mtrs, FSI area of 34,394 Sq. Mtrs, Non FSI area of 36,324 Sq.m and BUA of 70,718 Sq. Mtrs. PP proposes to construct total 3 residential buildings with one 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 requested for time to submit above information; after deliberations committee asked PP to comply with the above observations and submit information to the committee for further discussion and consideration of SEAC.

Specific Conditions by SEAC:

1) PP to submit DMP with legible chart.
2) PP to submit redesigned STP & completely open to sky.
3) PP to submit revised site Specific EMP considering maintaing the responsibility during construction & operation phase and emergency response.
4) PP to submit OWC details.
5) PP to submit Parking layout to be revised for the basement and all four levels including the basement with drive way not less than 5 mtrs ,parking for entire cars generated by new building as per DCR should be specifically indicated on extra floor provided and parking statement to be provided with equivalent car area.
6) PP to submit section to UGT and it should be relocated and not be below the road level-internal road or drive way.
7) PP to submit affidavit for WTP stating that they will meet ISO norms for water WTP. Same may be included in EMP with cost.
8) PP to submit E-waste NOC, Tree Authority NOC,
9) PP to submit Derbies management plan showing all types of solid waste.
10) PP to submit undertaking for implementation of CER.
11) PP to submit undertaking for Tree plantation and protection of existing trees.
12) PP to submit Environmental Status Report.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Environmental clearance for expansion of residential construction project

Is a Violation Case: No

1.Name of Project	The Leaf
2.Type of institution	Private
3.Name of Project Proponent	Shree Pushkar Developers
4.Name of Consultant	Pollution and Ecology Control Services
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC vide no. SEAC-2014/CR417/TC-3 dated 2nd Feb 2017 for plot area 37700 sqm
8.Location of the project	S. No. 35/20/15/A, 35/20/15/B, 35/20/15/2, 35/20/15/3, 35/20/15/4, 35/20/15/5, 35/20/16/A, 35/20/16/B, 35/20/16/C, 35/20/16/2, 35/20/16/3, 35/20/16/4, 35/20/16/5, 35/20/16/6, 35/20/16/7, 35/20/16/8, 35/20, 35/20A, 35/21, 35/22,Yeolewadi, Pune
9.Taluka	Haveli
10.Village	Yeolewadi
Correspondence Name:	Sunil Barsakar
Room Number:	0
Floor:	1
Building Name:	NA
Road/Street Name:	NA
Locality:	Yeolewadi
City:	Pune
11.Area of the project	PMC
12.IOD/IOA/Concession/Plan Approval Number	IOD is in process
	IOD/IOA/Concession/Plan Approval Number:
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Wing ABC and club house completed, Wing DEF is in progress. Constructed area: FSI: 16523.32 sqm, Non FSI: 16516.91 sqm, Total BUA: 33040.21 sqm
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	43200 sqm
16.Deductions	14955.50 sqm
17.Net Plot area	28244.50 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** FSI: 48570.22 sqm as per previous EC FSI: 35199.50 sqm
	b) Non FSI area (sq. m.): Non FSI: 54897.02 sqm As per previous EC 38714 sqm
	c) Total BUA area (sq. m.): 103467
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28185.69
	Approved Non FSI area (sq. m.): 13688.40
	Date of Approval: 21-10-2016
19.Total ground coverage (m2)	12278.94 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43.47%
21.Estimated cost of the project	1768000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1 (Wing A, B,C): 1 no.	P+12 [As per previous EC (P +13)]	38.725 m
2	Building 2 (Wing D,E,F): 1 no.	P+14 [As per previous EC (P +14)]	44.7 m
3	Building 3 (Wing G,H): 1 no.	B +P + P1+13 [As per previous EC (P+P1+P2+14)]	44.95 m
4	Building 4 (Wing I, J): 1 no.	B + P +P1+13 (Newly Proposed)	44.95 m
5	Building 5 (K): 1 no.	P +P1+21 fl [As per previous EC (P+22)]	69.8 m
6	Building 6 (L): 1 no.	P +P1+21 fl [As per previous EC (P+22)]	69.8 m
7	Building 7 (M): 1 no.	P + P1+7 fl [As per previous EC (P +6)]	27.35 m
8	Building 8 (N): 1 no.	P + P1+7 fl [As per previous EC (P +6)]	27.35 m
9	Podium parking	S +1	4.20 m
10	Club house: 1 no.	G +1 (As per previous EC G+1)	7.98m
11	EWS building	P +4Fl (Newly Proposed)	14.95 m

23.Number of tenants and shops	As per previous EC 638 tenements Proposed : 122 Tenements Total 760 tenements (744 tenements + 16 EWS tenements)
24.Number of expected residents / users	3800 [As per previous EC 3190]
25.Tenant density per hectare	234/hecter
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Building 1 (Wing A, B, C) and clubhouse constructed. Building 2 (Wing D,E,F) under construction
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	342 KLD
	Recycled water - Flushing (CMD):	171 KLD
	Recycled water - Gardening (CMD):	28 KLD
	Swimming pool make up (Cum):	2 KLD
	Total Water Requirement (CMD) :	541 KLD
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	270 KLD
	Excess treated water	279 KLD
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	342 KLD
	Recycled water - Flushing (CMD):	171 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	2 KLD
	Total Water Requirement (CMD) :	513 KLD
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	270 KLD
	Excess treated water	308 KLD
Details of Swimming pool (If any)	Dimensions of swimming pool: Main pool: 9 m x 14.4 m x 1.2 m; Baby pool: 5.5 m x 2.55 m x 0.6 m • Water requirement for make up in KLD: 2 • Details of Plant & Machinery used for treatment of Swimming pool water: Self Priming pump, Control panel for pump, Vacuum fitting Chemicals required for maintaining the Swimming Pool TCCA (Trichloro icocynuric Acid) granules. Disinfection by: Chlorination • Details of quality to be achieved for swimming pool water and parameters to be monitored: Sr. No. Parameters Standard 1. pH 7.2 7.6 2. Chlorine level 1 to 1.5 mg/l	

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	342	342	10	10	10	0	479	479

Gardening	0	28	28	0	28	28	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer season: 22.29 m to 29 m BGL; Rainy season: 5 m to 11.2 m BGL; Winter season: 13.5 m to 20.10 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:	20
	Size of recharge pits :	1.5 m x 1.5 m x 1.5 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.
	Budgetary allocation (Capital cost) :	Rs 12,50,000/-
	Budgetary allocation (O & M cost) :	Rs 1,00,000/- per annum
	Details of UGT tanks if any :	Domestic UG tank Capacity: 600 KL Treated Water UG tank Capacity: 171KL Fire UG tank Capacity: 300 KL
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	1363.38 m3/hr
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	479 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. with 530 KLD capacity [As per previous EC 407 KL]
	Location & area of the STP:	Refer layout
	Budgetary allocation (Capital cost):	Rs 184,00,000/-
	Budgetary allocation (O & M cost):	Rs 14,80,000/- per annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 % of the raw material
	Disposal of the construction waste debris:	Landfilling on the same site
Waste generation in the operation Phase:	**Dry waste:**	760kg/day
	Wet waste:	1140 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	106 kg/day
	Others if any:	E-waste: 760 kg/year

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendors
	Wet waste:	Mechanized composting unit
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Gravity bags system- Teknobag Draimad
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Please refer layout
	Area for the storage of waste & other material:	OWC 1: 76.97 sqm; OWC 2: 73.12 sqm
	Area for machinery:	OWC 1: 2.6 sqm; OWC 2: 2.28 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35.50 lakhs
	O & M cost:	7,10,000 /annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	6.5-8	6-7.5	Not applicable
2	BOD	mg/l	250-300	<10	Not to exceed 10
3	COD	mg/l	350-500	<250	Not to exceed 100
4	Oil and grease	mg/l	<50	<10	Not applicable
5	Suspended solids	mg/l	350-450	<100	Not to exceed 50

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	3819.06 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	239
	List of proposed native trees :	As per below list
	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	Ailanthus excelsa	Maharukh	19	Good for roadside plantation, me
2	Anthocephalus cadamba	Kadamba	20	Good for roadside plantation, shady
3	Cassia fistula	Bahawa	16	Medicinal, host plant for butterflies
4	Azadirachta indica	Neem	16	Good for restoration of drier parts, good for air purifier, medicinal propoerties
5	Khaya grandis	Mohagani	36	Good for avenue plantation, ornamental
6	Lagerstromia flosreginae	Tamhan	31	Good for avenue plantation, good for group plantation around gardens and ponds
7	Murraya paniculata	Kunti	20	Ornamental
8	pternospermum	Muchkund	20	Tall tree, flowers are fragrant
9	Saraca indica	Sita ashok	18	Preading, evergreen, suitable for all types of gardens
10	Mangifera indica	Mango	16	Fruit bearing, Good for roadside plantation, shady
11	Acrus sapota	Chickoo	10	Fruit bearing, Good for roadside plantation, shady
12	Muntingia calabura	Singapore cherry	17	Fruit bearing, rounded canopy, 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	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	33 KW
	DG set as Power back-up during construction phase	40 kVA approx
	During Operation phase (Connected load):	3914 KW
	During Operation phase (Demand load):	1869 KVA
	Transformer:	630 KVA x 3
	DG set as Power back-up during operation phase:	320 KVA x 1
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

• Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
• T5 fluorescent lamps (cfl) with high frequency ballast will be used for corridors and common areas & EXTERNAL ROAD LIGHTS.
• 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.
• 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.
• 125 Ltr. Solar water heating is provided for Each flat
• 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 heater	1093853.75 kwh/year
2	Auto control of street light and LED in building	8386.24 kwh/year
3	LED energy efficient lamps- street light	13000 kwh/year

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 158,00,000/-
	O & M cost:	Rs 14,00,000/- per annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Erosion control	Dust suppresion measures and barricading	Rs 50000/-
2	Site saftey	Safety equipments, ear muffs, sign boards etc	Rs 27,000/-
3	Site sanitation	Mobile toilets and maintenance	Rs 80,000/-
4	Disinfection and health check up	Disinfection of water, periodic medical check up for workers	Rs 1,00,000/-
5	Environmental monitoring	Air, water, noise, soil monitoring	Rs 3,24,000/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Construction, Installation and operation	Rs 184,00,000/-	Rs 14,80,000/-
2	Solid waste management	OWC installation and operation	Rs 35,50,000/-	Rs 7,10,000/-
3	Storm water network	Upto final disposal	Rs 20,00,000/-	RS 1,00,000/-
4	Rain water harvesting	Construction and installation	Rs 12,50,000/-	Rs 1,00,000/-
5	Landscape	Planting of trees, maintenance of lawn	Rs 25,00,000/-	Rs 16,00,000/-
6	Energy	Installation and operation	Rs 1,58, 00,000/-	Rs 14,00,000/-
7	Swimming pool	Installation and maintenance	Rs 40,00,000/-	Rs 3,00,000/-
8	Environmental monitoring	Air, water, noise, soil monitoring	0	Rd 1,60,000/-
9	Site safety and awareness	fire safety awareness programmes	Rs 9,00,000/-	0
10	Water supply through tanker	In case of emergency	0	Rs 12,00,000/- (for 3 months)

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 nos (Below Wing G,H,I,J) 3089.19 Sq.m.
	Number and area of podia:	1 no. Area: 3061.16 sqm
	Total Parking area:	31486.59 Sq.m.
	Area per car:	Covered: 30.70 sqm; Open: 25.92 sqm basement :38.66 sqm
	Area per car:	Covered: 30.70 sqm; Open: 25.92 sqm basement :38.66 sqm
	Number of 2-Wheelers as approved by competent authority:	1336
	Number of 4-Wheelers as approved by competent authority:	759
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	Category 8 a B2
	Court cases pending if any	yes
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	03-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environmental clearance for expansion of residential construction project, The Leaf at S. No. 35/20/15/A, 35/20/15/B, 35/20/15/2, 35/20/15/3, 35/20/15/4, 35/20/15/5, 35/20/16/A,35/20/16/B, 35/20/16/C, 35/20/16/2, 35/20/16/3, 35/20/16/4, 35/20/16/5, 35/20/16/6, 35/20/16/7,35/20/16/8, 35/20, 35/20A, 35/21, 35/22,Yeolewadi, Pune by M/s. Shree Pushkar Developers.

PP submitted their application for Expansion of Environmental clearance for total plot area of 43200 Sq. Mtrs, FSI area of 48570.22 Sq. Mtrs, Non FSI area of 54897.02 Sq.m and total BUA of 103467 Sq. Mtrs. PP proposes to construct total 9 buildings, 1 Podium parking with one 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

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

Specific Conditions by SEAC:

1) PP to submit site specific EMP.
2) PP to submit undertaking for disposal of solid waste (Derbies management plan) .
3) PP to submit revised DMP.
4) PP to submit justification for built up area.
5) PP to submit undertaking for implementation of CER.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for proposed construction project by M/s Apex Builders

Is a Violation Case: No

1.Name of Project	Apostrophe
2.Type of institution	Private
3.Name of Project Proponent	Mr. Bharat Agarwal
4.Name of Consultant	JV Analytical Services
5.Type of project	Residential & 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	Gat. No. 703,704 & 705 Plot No:- A Moshi, Pune
9.Taluka	Haveli
10.Village	Moshi
Correspondence Name:	Mr. Dilip Agarwal and Gopal Agarwal
Room Number:	1st Adams court
Floor:	2nd Floor
Building Name:	Kasturi Housing
Road/Street Name:	Mahabaleshwar
Locality:	Baner
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 29409.18
13.Note on the initiated work (If applicable)	12841.61 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	9292.15 m2
16.Deductions	930.90 m2
17.Net Plot area	8361.25 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12835.73 m2
	b) Non FSI area (sq. m.): 16573.45 m2
	c) Total BUA area (sq. m.): 29409.18
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	1492.50 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16.06 % of the 9292.15 m2 Total Plot Area, 17.84% of the 8361.25 m2 Net Plot Area
21.Estimated cost of the project	600000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	Building A	P+12	34.80
2	Building B	P+12	34.80
3	Building C	2p+11	31.90
4	Building D	2p+11	31.90
5	commercial Building	Ground	-

23.Number of tenants and shops	Residential -176 nos.
24.Number of expected residents / users	Residential Users- 880 nos. Commercial Users – 50 nos. Total Population: 930Nos.
25.Tenant density per hectare	189.40
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 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	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	144.91
	Recycled water - Flushing (CMD):	41.35
	Recycled water - Gardening (CMD):	13.2
	Swimming pool make up (Cum):	2.14
	Total Water Requirement (CMD) :	81.84
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	58.89
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	131.71
	Recycled water - Flushing (CMD):	41.35
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	2.14
	Total Water Requirement (CMD) :	81.84
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	72.09
Details of Swimming pool (If any)	Dimension of Swimming Pool: 50 ft x 20 ft x 4.5 ft Total water Requirement in KLD: 10.8 m3/day Make up water requirement in KLD: 2.14 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. 11 Lakh O & M cost: Rs. 1.0 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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	• Pre-Monsoon: - 8.20 m BGL • Post Monsoon: - 4.20 m BGL
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	4
	Size of recharge pits :	1.5 m x1.5 m x 1.5m
	Budgetary allocation (Capital cost) :	Rs. 1.92 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.72 Lakh/year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 90000 Lit Flushing UG tank Capacity:49200 Lit Fire UG tank Capacity: 300000 Lit
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	2784.42 m3 /yr
	Size of SWD:	450 mm dia. pipe
Sewage and Waste water	**Sewage generation in KLD:**	113.44 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	115 m3/day
	Location & area of the STP:	75 m2
	Budgetary allocation (Capital cost):	Rs. 57.43 Lakh
	Budgetary allocation (O & M cost):	Rs.8.27 Lakh / Year
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 Leveling.
Waste generation in the operation Phase:	**Dry waste:**	269.00 kg/day
	Wet waste:	183.50 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	10.20 kg/day (100% dry)
	Others if any:	No

Mode of Disposal of waste:	**Dry waste:**	Authorized vender
	Wet waste:	Organic waste convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	No
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	42 m2
	Area for machinery:	3.30 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 17.44 Lakh
	O & M cost:	Rs.2.76 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	DG Sets - 320 KVA -1 Nos	HSD - 42.6 lit./hr	S- 1	6.5 M	As per norms	As per norms

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	HSD - 42.6 lit./hr	HSD - 42.6 lit./hr
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 :**	930.90 m2
	No of trees to be cut :	-
	Number of trees to be planted :	120 Nos
	List of proposed native trees :	120 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	Anthocephalusc adamba	Kadamb	11	Native, evergreen, gives shade, flowers, mythological value & wound healing medical use
2	Terminalia catappa	Badam	10	Fruits is edible tasting slightly, Herbal Medicine Use
3	Bauhinia Purepurea	Kanchan	12	Native, attracts birds and insects, medicinal value
4	Plumeria alba	Champa	08	Native, evergreen, for beautiful fragrant flowers
5	Plumeria arubra	Laalchafa	10	Anti-oxidative &proteolytic activities medicine use & fragrant flowers
6	Callistemon vminalis	Weeping Bottlebrush	05	Native, for shade, medicinal value, attracts birds & insects
7	Weeping Fig	Ficusbenj amina	08	Evergreen tree, nonflowering, Native, can bepruned and given topiary effect
8	Apple Blossom Cassia	Cassia javanica	04	Medicinal value, Native species
9	Putra-Jiva	Putranjivarox burghii	15	Medicinal value, Native species
10	Plumeria alba	Jackfruit	07	Huge fruit bearing tree attracts birds
11	Mangifera indica	Mango	10	Evergreen with huge canopy and fruit bearing tree
12	Bauhinia tomentosa	Yellow Bauhinia	10	Small tree known to have antimicrobial activity
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)	40 KW
	DG set as Power back-up during construction phase	100 KVA – 1 No.
	During Operation phase (Connected load):	1190 KW
	During Operation phase (Demand load):	1071 KW
	Transformer:	630 KVA -2 NOS
	DG set as Power back-up during operation phase:	320 KVA - 1 Nos
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

The following Energy Conservation Methods are proposed in the project:
Maximum use of daylight in tenements area by providing appropriate window sizing
Use of CFL & Energy efficient LED lamps in all public/ common areas.
Optimum building orientation
Use of energy efficient devices
Daylight cum occupancy sensors in parking area lighting
Timer control external lighting
Solar powered water heating for all tenements

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total KWH units saving per day towards internal area lighting	70.02
2	Total KWH units saving per day towards external area lighting	84.25

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. 16.00 Lakh
	O & M cost:	Rs. 0.40 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	1.0 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	57.43 Lakh	57.43 Lakh
2	RWH	Rain Water Harvesting	1.92 Lakh	0.72 Lakh/Year
3	MSW	Solid Waste Management	17.44 Lakh	2.76 Lakh/Year
4	Energy Saving	Energy Saving	75.00 Lakh	1.4 Lakh/Year
5	Landscaping	Landscaping	15.00 Lakh	0.60 Lakh/Year
6	Safety Equipment	Safety Equipment	10.00 Lakh	2.00 Lakh/Year
7	Post EC Monitoring	Post EC Monitoring	-	2.50 Lakh/Year
8	Dry Waste Management	Dry Waste Management	-	1.30 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:	-
Parking details:	**Number and area of basement:**	Na
	Number and area of podia:	Na
	Total Parking area:	8690.67 m2
	Area per car:	49.37 m2
	Area per car:	49.37 m2
	Number of 2-Wheelers as approved by competent authority:	370
	Number of 4-Wheelers as approved by competent authority:	185
	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	B2
	Court cases pending if any	NO
	Other Relevant Informations	-
	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

Environment Clearance for proposed construction project at Gat. No. 703,704 & 705 Plot No: - A Moshi, Pune by M/s Apex Builders.

PP submitted their application for prior Environmental clearance for total plot area of 9292.15 Sq. Mtrs, FSI area of 12835.73 Sq. Mtrs, Non FSI area of 16573.45 Sq.m and total BUA of 29409.18 Sq. Mtrs. PP proposes to construct total 4 residential buildings and 1 commercial 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

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 area for accommodation of extra no of cars & two wheelers should be clearly indicated.
2) PP to submit parking layout plan.
3) PP to submit energy saving calculations/percentage along with terrace plan.
4) PP to submit undertaking for implementation of CER

FINAL RECOMMENDATION

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

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Proposed Residential Project

Is a Violation Case: No

1.Name of Project	Expansion of Residential Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Viraj Properties
4.Name of Consultant	Enviro Analysts and Engineers 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	S. No. 571/2
9.Taluka	Haveli
10.Village	Bibwewadi
Correspondence Name:	Mr. Manish Vimalkumar Jain
Room Number:	2413
Floor:	NA
Building Name:	Kumar Capital
Road/Street Name:	East Street
Locality:	Camp
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 29995
13.Note on the initiated work (If applicable)	24,440.28 Sq.m of total construction area is completed as per previous EC dated 13.10.2016
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	19,710.70 Sq.m.
16.Deductions	2926.07 Sq.m.
17.Net Plot area	16784.63 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27677.41
	b) Non FSI area (sq. m.): 14552.25
	c) Total BUA area (sq. m.): 42229
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	2321.31
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11.7
21.Estimated cost of the project	650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	A2-A3	P+20 floors	69.9
2	B	P+11 floors	69.9
3	A1	P+20 floors	69.9
4	A4	P+20 floors	69.9
5	C	Ground	69.9
6	D	UP+LP+G+1	69.9

23.Number of tenants and shops	410 flats
24.Number of expected residents / users	2000 nos.
25.Tenant density per hectare	215 tenements/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m wide and 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	Minimum 9 m
29.Existing structure (s) if any	Building B, A2, A3, and C are constructed as per previous 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

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	160
	Recycled water - Flushing (CMD):	80
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	12.72
	Total Water Requirement (CMD) :	249
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	105
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	160
	Recycled water - Flushing (CMD):	80
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	12.72
	Total Water Requirement (CMD) :	240
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	114
Details of Swimming pool (If any)	Dimensions: 25.44 m x 9.74 m x 1.22 m Total water requirement: 450 KL Water requirement for make-up: 12.72 KLD Details of plant and machinery used for treatment swimming pool: Pressure sand filter (flow rate 14 cum/ hr), dosing pump for chlorination, pH correction, alum addition (max. dosing flow : 1-6 lph) Details of quality to be achieved for swimming pool water and parameters to be monitored: pH 7.1-7.5, chlorine level: 1-3 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**
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:**	11 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 nos.
	Size of recharge pits :	2 m x 2 m, Depth: 1.5 m
	Budgetary allocation (Capital cost) :	Rs. 44 lac
	Budgetary allocation (O & M cost) :	Rs. 0.44 lac
	Details of UGT tanks if any :	UG tanks: Domestic water tanks: 9 nos. with total of 119 KLD Flushing water tank: 9 nos. with total of 82 KLD Fire water tank: 3 nos. with total of 450 KLD Overhead tanks: Domestic water tanks: 9 nos. with total of 80 KLD Flushing water tank: 9 nos. with total of 40 KLD Fire water tank: 3 nos. with total of 180 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Natural slope towards north
	Quantity of storm water:	0.259 cum/sec
	Size of SWD:	1 m (D) x 0.4 m (W) for buildings A,C,D and 1.2 m (D) x 0.4 m (W) for building B
Sewage and Waste water	**Sewage generation in KLD:**	215 cum/ day
	STP technology:	SMBR
	Capacity of STP (CMD):	2 nos., 125 CMD and 115 CMD
	Location & area of the STP:	Underground
	Budgetary allocation (Capital cost):	Rs. 46.75 Lac
	Budgetary allocation (O & M cost):	Rs. 11 lac

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Quantity of top soil to be preserved; the same shall be preserved during landscaping
	Disposal of the construction waste debris:	Construction debris, waste concrete and broken bricks will be utilized in low land leveling, secondary concrete shall be used below roads. Some quantity shall be used for leveling and landscaping.
Waste generation in the operation Phase:	**Dry waste:**	360 kg/ day
	Wet waste:	540 kg/ day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	8 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	This will be collected by authorized vendor
	Wet waste:	This will be processed in composter to obtain manure
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	8 sq. m.
	Area for machinery:	4.8 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 37 lac
	O & M cost:	Rs. 8.95 lac

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	6262.14
	No of trees to be cut :	NA
	Number of trees to be planted :	252
	List of proposed native trees :	enclosed below
	Timeline for completion of plantation :	till 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	Alstonia scholaris	Devil tree	31	rapidly growing tree
2	Mimusops ellengii	Spanish cherry	31	ever green tree
3	Mangifera indica	Mango	31	dense and fruit bearing tree
4	Lagerstromea speciosa	Giant crape-myrtle	31	flowering tree
5	Khaya grandis	Ivy Gourd	31	rapidly growing tree
6	Neolamarckia cadamba	Kadamb	35	an evergreen tropical tree
7	Swietenia mahagoni	Mahogany	31	semi-evergreen tree
8	Pterospermum acerifolium	Kanak champa	31	angiosperm indigenous to Southeast Asia

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)	100 kna approximately
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	4844 kW
	During Operation phase (Demand load):	1243 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	180 KW and 128 kW
	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 for flat lighting, common area lighting of A1 to A4 bdg., External lighting of A1 to A4 bdg. and D wing lighting
2. Use of VFD for lift load
3. Solar water heaters
4. Solar net metering

total saving in percentage- 8 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	percentage of savings	8

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:**	for solar hot water system - Rs. 26.40 lakhs, for solar PV - Rs. 20.60 Lakhs
	O & M cost:	r solar hot water system - Rs. 1.05 lakhs per annum, for solar PV - Rs. 0.83 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 sprinkling system	0.8
2	Water environment	Water for mobile toilets	1.8

3	Noise environment	Site barricating	3.6
4	Land environment	Mobile STP	0.6
5	Socio-economic environment	Disinfection pest control	0.24
6	Socio-economic environment	First-aid facilities	0.36
7	Socio-economic environment	Health check-up	0.28
8	Socio-economic environment	Personal protective equipment	0.2
9	External Infrastructure	Laydown of sewer line upto existing munnicipal sewer line	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water environment	STP	46.75	11
2	water environment	Rainwater harvesting	4.4	0.44
3	Energy saving	Solar water heater	26.4	1.05
4	Solid waste management	Solid waste management	37	8.95
5	land environment	Landscaping	18	1.6

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Vehicular entries and exit from proposed 12 m wide road along with internal road of 12 m, 9 m and 6 m wide drive ways with 7.5 m turning radius

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	1658 sq. m.
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	907
	Number of 4-Wheelers as approved by competent authority:	473
	Public Transport:	NA
	Width of all Internal roads (m):	12 m, 9 m, 6 m drive ways and 7.5 m turning radius
	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) Category B
	Court cases pending if any	NA
	Other Relevant Informations	said project has been received EC dated 13.10.2016
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential Project S. No. 571/2 at S. No. 571/2, Bibwewadi by M/s. Viraj Properties.

PP submitted their application for prior Environmental clearance for total plot area of 19,710.70 Sq. Mtrs, FSI area of 27677.41 Sq. Mtrs, Non FSI area of 14552.25 Sq.m and total BUA of 42,229 Sq. Mtrs. PP proposes to construct total 6 residential buildings.

DECISION OF SEAC

PP remains absent.

SEAC decided to deferred the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Proposed Residential Project at S. No. 571/2, Bibwewadi, Haveli , Pune by M/s. Viraj Properties (we are submitting the proposal at SEIAA level due to very minor change in previous EC)

Is a Violation Case: No

1.Name of Project	Expansion of Residential Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Viraj Properties
4.Name of Consultant	Enviro Analysts and Engineers 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	S. No. 571/2
9.Taluka	Haveli
10.Village	Bibwewadi
Correspondence Name:	Mr. Manish Vimalkumar Jain
Room Number:	2413
Floor:	NA
Building Name:	Kumar Capital
Road/Street Name:	East Street
Locality:	Camp
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/3083/17
	IOD/IOA/Concession/Plan Approval Number: CC/3083/17
	Approved Built-up Area: 27677
13.Note on the initiated work (If applicable)	24,440.28 Sq.m of total construction area is completed as per previous EC dated 13.10.2016
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	19,710.70 Sq.m.
16.Deductions	2926.07 Sq.m.
17.Net Plot area	16784.63 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27677.41
	b) Non FSI area (sq. m.): 24760.88
	c) Total BUA area (sq. m.): 52438
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 27677
	Approved Non FSI area (sq. m.): 24760.88
	Date of Approval: 21-02-2011
19.Total ground coverage (m2)	7520.48 Sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	38
21.Estimated cost of the project	650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A2-A3	P+20 floors	69.9
2	B	P+11 floors	69.9
3	A1	P+20 floors	69.9
4	A4	P+20 floors	69.9
5	C - community hall	Ground	69.9
6	D - club house	UP+LP+G+1	69.9

23.Number of tenants and shops	410 flats
24.Number of expected residents / users	2000 nos.
25.Tenant density per hectare	215 tenements/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m wide and 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	Minimum 9 m
29.Existing structure (s) if any	Building B, A2, A3, and C are constructed as per previous 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

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	185
	Recycled water - Flushing (CMD):	92
	Recycled water - Gardening (CMD):	23.6
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	303.6
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	83.40
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	185
	Recycled water - Flushing (CMD):	92
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	280.0
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	107
Details of Swimming pool (If any)	Dimension of Swimming Pool: 12 m x 6 m x 1.2 m Total water Requirement in KL: 86.40 m3 Water requirement for make up in KLD: 3 KLD • Details of Plant & Machinery used for treatment of Swimming pool water: Pressure sand filter (flow rate 14 cum/hr), dosing pump for chlorination, pH correction, alum addition (max. dosing flow: 1-6 lph) Details of quality to be achieved for swimming pool water and parameters to be monitored: NA pH 701-7.5, chlorine level: 1-3 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**
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:**	11 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 nos.
	Size of recharge pits :	2 m x 2 m, Depth: 1.5 m
	Budgetary allocation (Capital cost) :	Rs. 4.4 lac
	Budgetary allocation (O & M cost) :	Rs. 0.44 lac
	Details of UGT tanks if any :	Domestic UGT: 2 nos. with total of 130 KLD Flushing UGT: 2 nos. with total of 82 KLD Fire UGT: 2 nos. with total of 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Natural slope towards north
	Quantity of storm water:	0.259 cum/sec
	Size of SWD:	1 m (D) x 0.4 m (W) for buildings A,C,D and 1.2 m (D) x 0.4 m (W) for building B
Sewage and Waste water	**Sewage generation in KLD:**	221 cum/ day
	STP technology:	SMBR
	Capacity of STP (CMD):	240 KLD - 2 nos -125 KLD 115 KLD
	Location & area of the STP:	112 sq. m. (42 Sq. m. +70 sq. m.), 2 locations
	Budgetary allocation (Capital cost):	Rs. 46.75 Lac
	Budgetary allocation (O & M cost):	Rs. 11 lac
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Quantity of top soil to be preserved; the same shall be preserved during landscaping
	Disposal of the construction waste debris:	Construction debris, waste concrete and broken bricks will be utilized in low land leveling, secondary concrete shall be used below roads. Some quantity shall be used for leveling and landscaping.
Waste generation in the operation Phase:	**Dry waste:**	369 kg/ day
	Wet waste:	554 kg/ day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	8 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	This will be collected by authorized vendor
	Wet waste:	This will be processed in composter to obtain manure
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	15 sq. m.
	Area for machinery:	4.8 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 37 lac
	O & M cost:	Rs. 8.95 lac

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1971.07
	No of trees to be cut :	NA
	Number of trees to be planted :	252
	List of proposed native trees :	enclosed below
	Timeline for completion of plantation :	till 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	Alstonia scholaris	Devil tree	31	rapidly growing tree
2	Mimusops ellengii	Spanish cherry	31	ever green tree
3	Mangifera indica	Mango	31	dense and fruit bearing tree
4	Lagerstromea speciosa	Giant crape-myrtle	31	flowering tree
5	Khaya grandis	Ivy Gourd	31	rapidly growing tree
6	Neolamarckia cadamba	Kadamb	35	an evergreen tropical tree
7	Swietenia mahagoni	Mahogany	31	semi-evergreen tree
8	Pterospermum acerifolium	Kanak champa	31	angiosperm indigenous to Southeast Asia

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)	100 kva approximately
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	4844 kW
	During Operation phase (Demand load):	1243 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	1 no. x 250 kVA and 1no. x 160kVA
	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 for flat lighting, common area lighting of A1 to A4 bdg., External lighting of A1 to A4 bdg. and D wing lighting
2. Use of VFD for lift load
3. Solar water heaters
4. Solar net metering

total saving in percentage- 7.5 %

49.Detail calculations & % of saving:

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

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:**	for solar hot water system - Rs. 26.40 lakhs
	O & M cost:	r solar hot water system - Rs. 1.05 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 sprinkling system	0.8
2	Water environment	Water for mobile toilets	1.8
3	Noise environment	Site barricating	3.6

4	Land environment	Mobile STP	0.6
5	Socio-economic environment	Disinfection pest control	0.24
6	Socio-economic environment	First-aid facilities	0.36
7	Socio-economic environment	Health check-up	0.28
8	Socio-economic environment	Personal protective equipment	0.2
9	External Infrastructure	Laydown of sewer line upto existing munnicipal sewer line	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water environment	STP	46.75	11
2	water environment	Rainwater harvesting	4.4	0.44
3	Energy saving	Solar water heater	26.4	1.05
4	Solid waste management	Solid waste management	37	8.95
5	land environment	Landscaping	18	1.6

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Vehicular entries and exit from proposed 12 m wide road along with internal road of 12 m, 9 m and 6 m wide drive ways with 7.5 m turning radius

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	Lower + Upper Level Parking Area 3411.10 + 3411.10 sq. m
	Total Parking area:	1658 sq. m.
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	901
	Number of 4-Wheelers as approved by competent authority:	465
	Public Transport:	NA
	Width of all Internal roads (m):	12 m, 9 m, 6 m drive ways and 7.5 m turning radius
	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) Category B
	Court cases pending if any	NA
	Other Relevant Informations	said project has been received EC dated 13.10.2016
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential Project S. No. 571/2 at S. No. 571/2, Bibwewadi by M/s. Viraj Properties

PP submitted their application for prior Environmental clearance for total plot area of 19,710.70 Sq. Mtrs, FSI area of 27677.41 Sq. Mtrs, Non FSI area of 14552.25 Sq.m and total BUA of 42,229 Sq. Mtrs. PP proposes to construct total 6 residential buildings.

DECISION OF SEAC

PP remains absent.

SEAC decided to deferred the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Housing Project " Velstand " , Survey No 8/3+9/1/1+9/1/19, Shop No 3, Velstand Building next to Vodafone store, Opp. Reliance Mart Kharadi Pune 411014

Is a Violation Case: No

1.Name of Project	" Velstand "
2.Type of institution	Private
3.Name of Project Proponent	Mr. Surendra Bapusaheb Pathare
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) – 400 604., Maharashtra, India. PH: 91-22-2580 1529/21/46 Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Hosing
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	Structure exist as per previous sanction
8.Location of the project	Survey No 8/3+9/1/1+9/1/19, Shop No 3, Velstand Building next to Vodafone store, Opp. Reliance Mart Kharadi Pune 411014
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	---
Room Number:	Shop No 3,
Floor:	---
Building Name:	Velstand
Road/Street Name:	Kharadi Bypas
Locality:	Kharadi
City:	Pune
11.Area of the project	Pune Muncipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area: 34899.71
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.)	12537.00 sq.mt.
16.Deductions	5083.68 sq.mt.
17.Net Plot area	7,453.32 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16,525.41 sq.mt.
	b) Non FSI area (sq. m.): 18374.30 sq.mt.
	c) Total BUA area (sq. m.): 34899.71
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16525.41 sq.mt.
	Approved Non FSI area (sq. m.): 18374.30 sq.mt.
	Date of Approval: 31-07-2017
19.Total ground coverage (m2)	3218.74 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43.18%
21.Estimated cost of the project	891000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Type	Ground Floor, B+G+22 FLOORS	69.00 m
2	B Type	Ground Floor, First & Second Floor, B+G+22 FLOORS	69.00 m
3	Exiting Bungalow -1	GROUND	3.60 m
4	Exiting Bungalow -2	GR+02 FLOOR	9.60 m

23.Number of tenants and shops	Tenement : 152 Nos , Shop 10 Nos , Office : 32
24.Number of expected residents / users	1301 Nos
25.Tenant density per hectare	111/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 10.4 km (Fire Brigade)
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 , As Per Previous Sanction
30.Details of the demolition with disposal (If applicable)	Yes

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**	PMC
	Fresh water (CMD):	88.22
	Recycled water - Flushing (CMD):	47.73
	Recycled water - Gardening (CMD):	10.00
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	146.95
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	25 EACH
	Excess treated water	56.53
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	88.22
	Recycled water - Flushing (CMD):	47.73
	Recycled water - Gardening (CMD):	---
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	136.95
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	25 EACH
	Excess treated water	66.53
Details of Swimming pool (If any)	Dimension of Swimming Pool : 10 X 5 m Total Water Requirement in KLD : 60.96 Water requirement for make up in KLD : 4	

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:**	6 To 8 M
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	3 Nos
	Size of recharge pits :	1.5 X 1.5 X 1.5
	Budgetary allocation (Capital cost) :	6.00 Lacs
	Budgetary allocation (O & M cost) :	0.2 Lacs/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity : 135 Cum Flushing UG tank Capacity : 60 Cum (including landscape)
35.Storm water drainage	**Natural water drainage pattern:**	AS PER DRAWINGS
	Quantity of storm water:	291.32 M3 /HR
	Size of SWD:	DIA 450 MM
Sewage and Waste water	**Sewage generation in KLD:**	114.26
	STP technology:	MBBR
	Capacity of STP (CMD):	120
	Location & area of the STP:	Near By A Type Building
	Budgetary allocation (Capital cost):	39.36 Lacs
	Budgetary allocation (O & M cost):	7.9 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	No
	Disposal of the construction waste debris:	No
Waste generation in the operation Phase:	**Dry waste:**	227 kg
	Wet waste:	258 kg
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	69.10 kg
	Others if any:	Not Applicable

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:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	No
Area requirement:	**Location(s):**	Near Open Space
	Area for the storage of waste & other material:	8.75 sqm
	Area for machinery:	33 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12.75 lacs
	O & M cost:	2.44 lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1097.31
	No of trees to be cut :	No
	Number of trees to be planted :	155
	List of proposed native trees :	List Given Below
	Timeline for completion of plantation :	1 Year before complition 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	Michellia champaca	Sonchaffa	10	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
2	Albizzia lebek	Shirish	10	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3	Anthocephalus kadamba	Kadamb	10	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
4	Azardirachta indica	Neem	10	Medicinal value, To control soil erosion. To improve soil erosion
5	Bauhinia blackiana	Kanchanraj	12	---
6	Butea monosperma	Palas	10	---
7	Cassia fistula	Bahawa	10	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
8	Pongamia pinnata	Karanj	10	Medicinal value, Drought tolerant species, To control soil erosion. Hardy plant.
9	Cordia dichotoma	Bhokar	10	Medicinal value, Edible fruits,
10	Dalbbergia sisoo	Shisav	10	Medicinal value, Bird attracting species ,
11	Elaeocarpus sphaericus	Rudraksh	12	---
12	Schelicherra oleasa	Kusum	05	---
13	Ficus microcarpa	Nandruk	09	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
14	Phyllanthus emblica	Awala	10	Medicinal value
15	Mangifera indica	Mango	06	Edible fruit, Bird attracting species.
16	Nyctanthus arbortristis	Parijatak	06	---
17	Mimosups elengii	Bakul	05	---
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)	30KW
	DG set as Power back-up during construction phase	45 KVA
	During Operation phase (Connected load):	1683KW/1870 KVA
	During Operation phase (Demand load):	1496KVA
	Transformer:	22 KV /630 KVA – 1 No & 22 KV / 315 KVA – 1 No
	DG set as Power back-up during operation phase:	180 KVA
	Fuel used:	For 75 % Load – 29.8 Liters / Hr – 11.74 Hrs Working
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1 Solar Water Heating Systems Will Be Done For Bathrooms.
2 Solar lights will be provided for common amenities like Street lighting & Garden lighting.
3 CFL & LED based lighting will be done in the common areas, landscape areas, signage's, Entry gates and boundary compound walls etc.
4 Auto Timer Switches will be provided for Street lights, Garden lights, Parking & staircase Lights & Other Common Area Lights, for saving electrical energy.
5 Water Level Controllers With Timers will be Used for Water Pumps.
6 To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED Lights.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	A) TOTAL Annual Savings in KWH for Solar Power, Hot Water	19.30%
2	B) TOTAL Annual Savings in KWH For Solar Power & Solar Hot Water Details	15.50%

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:**	26.20 Lacks
	O & M cost:	0.53 Lacks / 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	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):

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	6.00	0.2
3	Wastewater	Sewage Treatment Plant	39.36	7.9
4	Municipal Solid waste	Solid waste Management	12.75	2.44
5	Plantation	Landscaping	41.82	6.69
6	Energy	Energy Savings	26.20	0.53

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	01
	Number and area of podia:	02
	Total Parking area:	8817.6Sq.m. For Cycle 396 X 0.70 =277.20 sq.m
	Area per car:	35.00 &30.00 Sq.m.
	Area per car:	35.00 &30.00 Sq.m.
	Number of 2-Wheelers as approved by competent authority:	512 Nos
	Number of 4-Wheelers as approved by competent authority:	284 Nos
	Public Transport:	Available near to side
	Width of all Internal roads (m):	9.00 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

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Housing Project " Velstand " , Survey No 8/3+9/1/1+9/1/19, Shop No 3, Velstand Building next to Vodafone store, Opp. Reliance Mart Kharadi Pune.by Mr. Surendra Bapusaheb Pathare.

PP submitted their application for prior Environmental clearance for total plot area of 12537.00 Sq. Mtrs, FSI area of 16,525.41 Sq. Mtrs, Non FSI area of 18374.30 Sq.m and total BUA of 34899.71 Sq. Mtrs. PP proposes to construct A and B Type of residential 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

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

Specific Conditions by SEAC:

1) PP to submit undertaking stating that in the past, potential on the plot was less than 20,000 sq mtr and accordingly the plan has been approved.
2) PP to submit plan showing cross section through the internal road showing Distance and the space left for SWD, plantation of trees and compound wall.
3) PP to submit relocate UGT.
4) PP to submit mitigation measure plan to avoid inconvenience to the existing occupants'. Due to proposed work as addition of floors are proposed over exisiting building as part occupation certificate has been granted.
5) PP to submit revised debris management plan.
6) PP to submit revised parking layout plan width and slope of ramp and details of parking.
7) PP to submit approved parking plan.
8) PP to submit fire tender movement plan and cross section should be submitted with revised parking and area statement.
9) PP to submit location showing extra parking required which should be specifically indicated in the parking area statement as per DCR.
10) PP to submit details of socioeconomic infrastructure near project vicinity.
11) PP to submit undertaking for implementation of CER.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Amendment in Environment Clearance of 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	Mr. Hemendra Shah M/s. Kunal Spaces Pvt. Ltd.
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	Amendment in Existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC was obtained by Envt. Dept., Gov. of Maharashtra on 17.09.2012 vide letter no. SEAC-2011/CR69/TC-2
8.Location of the project	S.No.49/2(P), 49/3, 49/4, 49/5, 49/6(p), 50/1(P),50/5/1(P), 50/5/2(P), 50/5/3(P), 50/6/1, 50/6/2/1
9.Taluka	Haveli
10.Village	Balewadi
Correspondence Name:	Mr. Hemendra Shah (Director) M/s. Kunal Spaces Pvt. Ltd.
Room Number:	--
Floor:	--
Building Name:	Kunal House,
Road/Street Name:	Off Bhandarkar Road,
Locality:	Opp. Kamla Nehru Park,
City:	Pune-411004.
11.Area of the project	Yes, Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Building plan is approved by Pune Municipal Corporation.
	IOD/IOA/Concession/Plan Approval Number: Latest sanction number is CC/0255/17 dated 29.04.2017. Revised sanction is in process.
	Approved Built-up Area: 33974
13.Note on the initiated work (If applicable)	4 No. of buildings (A,B, C, & D) and Building E up to 4th floor comprising 67,101.11 m2 built up area were constructed on site as per earlier EC .
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	36,700.73 m2
16.Deductions	16,097.90 m2
17.Net Plot area	20,602.83 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 41,194.11 m2
	b) Non FSI area (sq. m.): 53,169.40 m2
	c) Total BUA area (sq. m.): 94363
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 33,974.43
	Approved Non FSI area (sq. m.): --
	Date of Approval: 29-04-2017
19.Total ground coverage (m2)	4,325.48 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21%
21.Estimated cost of the project	1070000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	B+P+15 floors	49.30
2	Building B	B+P+15 floors	49.30
3	Building C	B+P+15 floors	48.75
4	Building D	B+P+15 floors	48.75
5	Building E	B+P+16 floors	53.40
6	Building F	B+P+16 floors	53.40
7	2 Bungalows	G+1	7.89
8	HDH+ Multipurpose Hall	G+2	10.20
9	Shops	G+1	6.10
10	Owners flats	G+4	15

23.Number of tenants and shops	Tenements: 440 nos. Shops: 37
24.Number of expected residents / users	Residential: 2,200 , Shops: 317 , Total users: 2,517
25.Tenant density per hectare	250/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
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	4 No. of buildings (A,B, C, & D) and Building E up to 4th floor comprising 67,101.11 m2 built up area were constructed on site as per earlier 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

Dry season:	**Source of water**	Pune Municipal Corporation/Recycled
	Fresh water (CMD):	220.76 m3/day
	Recycled water - Flushing (CMD):	108.51 m3/day
	Recycled water - Gardening (CMD):	38.94 m3/day
	Swimming pool make up (Cum):	8 m3/day
	Total Water Requirement (CMD) :	376.21 m3/day
	Fire fighting - Underground water tank(CMD):	As per Fire NOC
	Fire fighting - Overhead water tank(CMD):	20 m3
	Excess treated water	141.69 m3/day
Wet season:	**Source of water**	Pune Municipal Corporation/Recycled
	Fresh water (CMD):	220.76 m3/day
	Recycled water - Flushing (CMD):	108.51 m3/day
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	8 m3/day
	Total Water Requirement (CMD) :	337.27 m3/day
	Fire fighting - Underground water tank(CMD):	As per Fire NOC
	Fire fighting - Overhead water tank(CMD):	20 m3
	Excess treated water	180.63 m3/day
Details of Swimming pool (If any)	Total Capacity: 258 cum Daily make up water requirement: 8 m3/day	

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:**	10 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10 nos.
	Size of recharge pits :	2 m x 0.9 m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 7.5 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakhs/annum
	Details of UGT tanks if any :	Treated Water Tank: 130 m3 Raw Water Storage Tank: 130 m3 Drinking Water Tank: 33.15 m3 Fire-fighting: 300 m3 Commercial UG tank: 20 m3
35.Storm water drainage	**Natural water drainage pattern:**	SW to NE
	Quantity of storm water:	72 m3/hr
	Size of SWD:	200 mm to 450 mm RCC NP2
Sewage and Waste water	**Sewage generation in KLD:**	290 m3/day
	STP technology:	Compact Type STP
	Capacity of STP (CMD):	1 STP of capacity 300 m3/day
	Location & area of the STP:	Location: Under Ground , Area: 109 m2
	Budgetary allocation (Capital cost):	Rs. 68.20 Lakhs
	Budgetary allocation (O & M cost):	Rs. 2 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	Construction debris includes (concrete wastes, broken bricks, metallic scraps etc.) that shall be used for leveling and base course preparation and remaining will be handed over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	430.09 kg/day
	Wet waste:	639.16 kg/day
	Hazardous waste:	Small quantity of DG set used oil, paints etc.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	28 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH agency
	Wet waste:	Will be treated in Mechanized Composting Machine
	Hazardous waste:	Handed over to authorized Vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried and used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	72 m2
	Area for machinery:	18 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 22.26 Lakhs
	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		

43.Green Belt Development	**Total RG area :**	4,889.37 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	244
	List of proposed native trees :	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	Plumeria alba	Chafa	22	Small tree with white flowers
2	Azadirachta indica	Neem	19	Semi-evergreen tree with medicinal value
3	Syzygium cumini	Jambhul	12	Fruit bearing tree
4	Mimusops elengii	Bakul	10	Shady tree, small white fragrant flowers
5	Anthocephallus cadamba	Kadamb	18	Shady, large tree, ball shaped flowers
6	Cassia fistula	Bahava	20	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
7	Saraca asoca	Sita ashok	15	Attracts Butterfly/Bees/Birds
8	Lagerstroemia speciosa	Taman	12	Shade giving tree, attracts Butterfly/Bees/Birds
9	Bauhinia purpurea	Rakt Kanchan	11	Evergreen tree with fragrant flowers
10	Michalia champaka	Yellow chafa	13	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
11	Peltophorum pterocarpum	Copper pod tree	08	Large tree with bright yellow flowers
12	Spathodea campanulata	African tulip tree	20	Ornamental tree, goof for soil improvement & erosion control
13	Pongamia pinnata	Indian Beech tree	13	Flowering shady tree
14	Artocarpus heterophyllus	Jackfruit	06	Fruit bearing tree
15	Mangifera indica	Mango	08	Fruit bearing tree
16	Annona squamosa	Custard apple	09	Fruit bearing medicinal tree
17	Caryota urens	Fishtail palm	28	Medium sized deciduous tree with purple flowers.
18	NA	Total	244	NA
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	Hymenocallislittoralis (Spider lily)	0.3	160.50
2	Ixoradufii pink (Ixora hybrid pink)	0.45	69.80
3	Hamelia dwarf (Fire bush)	0.45	207.75
4	Lumoneaspectablis (Raveneaspectablis)	--	51.00
5	Caesalpinneapulcherima new pink (Shankasur pink)	0.6	15.00
6	Thevetia (Bitti)	0.6	45.00
7	Allamanda yellow dwarf	0.3	--
8	Kundmultiflorum	0.45	40.50
9	Wadelliatrilobata	0.6	95.00
10	Ocimum sanctum (Tulsi)	0.3	38.0
11	Cestrum nocturmum (Ratrani)	0.45	216.90
12	Tabarnaemontanacoronaria variegated	0.45	710.95
13	Plumbagocapensis (Chitrak)	0.45	139.00
14	Lumoniaspectablis	0.45	51.0
15	Tecoma Capensis Golden	0.45	48.0
16	Nerium Oleander Carnea	0.45	45.0
17	Plumeriapudica	1.5	15.5
18	Hibiscus rosasinensis	0.45	42.0
19	Oleander dwarf	0.45	149.60
20	Lantana white erect	0.3	98.0
21	Lantana blue erect	0.3	75.50
22	Lantana camara red	0.3	25.0
23	Caesalpineapulcherima red	0.6	276.75
24	Caesalpineapulcherimaflava yellow	0.6	48.60

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	140 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	--
	During Operation phase (Demand load):	2,229.5 KW
	Transformer:	3 nos. x 630 KVA
	DG set as Power back-up during operation phase:	1 no. x 125 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 with CFL lamp
- All lifts will be soft starting
- Energy efficient pumping
- High efficiency LED/CFL lights for street light in place of metal halide
- Solar water heating system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Common Area lighting with CFL Lamps	24,528 KWH
2	All lifts will be soft starting	7,665 KWH
3	Energy efficient pumping	12,775 KWH
4	High efficiency LED/CFL lights for street light	17,520 KWH
5	Solar water heating system	3,59,850 KWH
6	Annual Saving	4,22,338 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. 676.14 Lakhs
	O & M cost:	Rs. 21 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	1.5
2	Site Sanitation, Disinfection& Safety	To maintain hygienic condition	2
3	Environmental Monitoring	Air, water, noise and soil analysis	2
4	Health Check up	To check fitness of workers	2.5
5	Environment Management Cell	To manage environmental issues	8
6	NA	Total	16

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	7.5	0.5
2	Sewage Treatment Plant	To treat sewage	68.20	12
3	Organic Waste Composting	To treat biodegradable solid waste	22.26	3
4	Green Belt Development	Tree plantation	48	6
5	Energy saving	For use of solar lighting and solar heater	676.14	21
6	Environment Monitoring	Air, water, noise and soil analysis	--	3
7	Laying of Storm line up to final disposal point	For proper storm water disposal	13.18	0.5
8	Laying of Sewer line up to final disposal point	For proper disposal of sewage	13.14	0.5
9	Basement Ventilation	For proper ventilation	40	3
10	Environment Management Cell	To manage environmental issues	--	7.8
11	NA	Total	882.42	57.3

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:	Site is near to Mumbai-Pune express highway
Parking details:	**Number and area of basement:**	No. of basement: 1 for each building Area of basement: 9,460.45 m2
	Number and area of podia:	NA
	Total Parking area:	20,267.79 m2
	Area per car:	Basement: 35.01 m2 , Stilt: 29.82 m2, Ground: 25.05 m2
	Area per car:	Basement: 35.01 m2 , Stilt: 29.82 m2, Ground: 25.05 m2
	Number of 2-Wheelers as approved by competent authority:	Scooters required: 1,145 , Provided: 1,150
	Number of 4-Wheelers as approved by competent authority:	Cars required: 654 , Provided: 655
	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), B category
	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

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for proposed residential project S.No.49/2(P), 49/3, 49/4, 49/5, 49/6(p), 50/1(P),50/5/1(P), 50/5/2(P), 50/5/3(P), 50/6/1, 50/6/2/1 , Balewadi,Pune by M/s. Kunal Spaces Pvt. Ltd.

PP submitted their application for expansion of Environmental clearance for total plot area of 36,700.73 Sq. Mtrs, FSI area of 41,194.11 Sq. Mtrs, Non FSI area of 53,169.40 Sq.m and total BUA of 94363 Sq. Mtrs. PP proposes to construct total 6 residential buildings, 2 Bungalow's, one HDH+ Multipurpose Hal, shops and Owner flat.

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, subject to PP complying with the above conditions

Specific Conditions by SEAC:

1) PP to submit cross section through the internal road showing the space left for SWD, plantation of trees and compound wall.
2) PP to submit copy of sanction plan.
3) PP to submit STP performance report with ORP.
4) PP to submit Drainage NOC.
5) PP to submit undertaking for implementation of CER.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for Building Construction Project

Is a Violation Case: No

1.Name of Project	Swargandhar
2.Type of institution	Private
3.Name of Project Proponent	Mr. Anil Pawar
4.Name of Consultant	Mr. Rajesh Shrivastav PECS- Pollution & Ecology Control Services
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	Gat No. 986+987+988+992(P)+856, Village Urali Kanchan, Tal- Haveli, Dist- Pune
9.Taluka	Haveli
10.Village	Urali Kanchan
Correspondence Name:	Mr. Anil Pawar
Room Number:	-
Floor:	-
Building Name:	Classic House, S. No. 395/396, Plot No. 23, Above ICICI Bank
Road/Street Name:	Senapati Bapat Road
Locality:	Shivaji Nagar
City:	Pune
11.Area of the project	Other Area
12.IOD/IOA/Concession/Plan Approval Number	PMRDA
	IOD/IOA/Concession/Plan Approval Number: PRH/NASR/836/2011
	Approved Built-up Area: 16594.39
13.Note on the initiated work (If applicable)	Previously constructed area is 14210.77 Sqm
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	28800 Sqm
16.Deductions	6325 Sqm
17.Net Plot area	22475 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22963.91
	b) Non FSI area (sq. m.): 3734.34
	c) Total BUA area (sq. m.): 26679.25
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16594.39
	Approved Non FSI area (sq. m.): 3336.11
	Date of Approval: 23-11-2013
19.Total ground coverage (m2)	4180.86
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.6 %
21.Estimated cost of the project	420000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	A1 & A2	G+3&P+4	14.85
2	A3	G+3&P+4	14.85
3	A4 & A5, A6 & A7	G+3&P+4	14.85
4	B1	G+3&P+4	14.85
5	B2 & B3	G+3&P+4	14.85
6	B4 & B5, B6 & B7	G+3&P+4	14.85
7	C1	G+3&P+4	14.85
8	E1	P + 4	14.25
9	B8 & B9	P + 7	22.80
10	D1	P + 7	22.80

23.Number of tenants and shops	No. of tenements- 376 Nos No. of Shops- 0
24.Number of expected residents / users	Residential Users- 1880 Nos. Commercial Users- 0
25.Tenant density per hectare	168 Tenements per 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)	9 M
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minium truning radius- 9 M
29.Existing structure (s) if any	Yes. Two existing bunglows on the plot which shall be retained.
30.Details of the demolition with disposal (If applicable)	No demolition work proposed.

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**	Grampanchayat
	Fresh water (CMD):	169.2
	Recycled water - Flushing (CMD):	84.6
	Recycled water - Gardening (CMD):	16.38
	Swimming pool make up (Cum):	Not Proposed
	Total Water Requirement (CMD) :	270.18
	Fire fighting - Underground water tank(CMD):	100.0
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	152.82
Wet season:	**Source of water**	Grampanchayat
	Fresh water (CMD):	169.2
	Recycled water - Flushing (CMD):	84.6
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	Not Proposed
	Total Water Requirement (CMD) :	253.8
	Fire fighting - Underground water tank(CMD):	100.0
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	169.2
Details of Swimming pool (If any)	Not Proposed.	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 M BGL
	Size and no of RWH tank(s) and Quantity:	Harvesting proposed in Recycled water tank with filteration
	Location of the RWH tank(s):	Collected in Raw water tank.
	Quantity of recharge pits:	2 Nos.
	Size of recharge pits :	2 x 2 x 3
	Budgetary allocation (Capital cost) :	Rs. 1.30 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.06 Lacs / Annum
	Details of UGT tanks if any :	UGT- 385.65 Cum
35.Storm water drainage	**Natural water drainage pattern:**	South East to North West
	Quantity of storm water:	7169.38 Cum/annum
	Size of SWD:	450 mm to 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	253.8 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of 267 KLD
	Location & area of the STP:	Shown on plan
	Budgetary allocation (Capital cost):	Rs. 35 Lacs
	Budgetary allocation (O & M cost):	Rs. 3.85 Lacs / Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	2.5 Kg / day
	Disposal of the construction waste debris:	To be disposed of through authroised agency & Recyclers
Waste generation in the operation Phase:	**Dry waste:**	376 Kg/day
	Wet waste:	588.03 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	24.03 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Through authorized agency
	Wet waste:	In-situ composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	In-situ composting
	Others if any:	NA
Area requirement:	**Location(s):**	Shown on the plan
	Area for the storage of waste & other material:	63 Sqm
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 12.42 Lacs
	O & M cost:	Rs. 1 Lac/ Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	2730 Sqm
	No of trees to be cut :	Nil
	Number of trees to be planted :	Trees required as per DCR- 281 Existing Trees- 238 Total No. of trees proposed= 43
	List of proposed native trees :	List given below
	Timeline for completion of plantation :	Proposed plantation to be done 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	Nyctanthes arbor-tristis	Parijatak	4	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
2	Ochna obtusata	Kanak Champa	4	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
3	Murraya paniculatum	Kamini/Kunti	4	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
4	Manilkara zapota	Chickoo	4	This small tree attracts Birds and Bees. Edible Fruit.
5	Citrus limon	Lemon	4	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
6	Bauhinia racemosa	Apta	4	Native to Pune, this Shrub has a Religious importance
7	Mimusops elengi	Bakul	4	Native, Evergreen Foliage and Flowering tree has dense branching, hence good for Wind screening. Flowers are deeply fragrant and attracts birds and Bees.
8	Pongamia pinnata	Karanj	4	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
9	Lagerstroemia reginae	Tamhan	4	This Purple Flowering plant is the State flower of Maharashtra.
10	Cassia fistula	Bahava	4	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
11	Erythrina variegata	Pangara	3	Native to Western Maharashtra, this Reddish-Orange Flowering and Deciduous tree attracts lot of Birds for the Nectar.
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)	60 KW
	DG set as Power back-up during construction phase	30 KW
	During Operation phase (Connected load):	1108.86 KW
	During Operation phase (Demand load):	813.14 KVA
	Transformer:	630 KVA- 1 no 315 KVA - 1 No
	DG set as Power back-up during operation phase:	160 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:

Common area lighting such as parking, stairways, passages etc shall be provided with LED bulbs
LED for entire Drive way and internal roads and pathways
Solar Water heating system shall be provided for entire scheme as per norms
Energy efficient pumps.
Timer for Staircase lighting, Lift Lobby, Parking area and street lights.
Energy saving devices for passenger lifts.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy Saving	17.52 %

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. 36.74 Lacs
	O & M cost:	Rs. 0.75 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	1.22

2	Site Sanitation & Safety	To maintain labour health	1.60
3	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water	1.80
4	Disinfection	To prevent any outbreak of diseases	0.50
5	Health Check up	To ensure health of the working staff in order to reduce any health complication and infections generated on site during construction phase	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	Rain Water Harvesting	Rain water harvesting pits	1.30	0.06
2	Sewage Treatment Plant	waste water treatment	35.0	3.85
3	Organic Waste Composting	biodegradable waste treatment	12.42	1
4	Tree Plantation	landscape development & management	16.38	0.82
5	Energy saving	energy conservation measures	36.74	0.75
6	Environment Monitoring	Pollution monitoring & control	0.0	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 No.

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	4496.6 Sqm
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	414 Nos.
	Number of 4-Wheelers as approved by competent authority:	214 Nos.
	Public Transport:	Nil
	Width of all Internal roads (m):	9 M Wide
	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

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Building Construction Project at Gat No. 986+987+988+992(P)+856, Village Urali Kanchan, Tal- Haveli, Dist- Pune by Mr. Anil Pawar (Swargandhar).

PP submitted their application for prior Environmental clearance for total plot area of 28800 Sq. Mtrs, FSI area of 22963.91 Sq. Mtrs, Non FSI area of 3734.34 Sq.m and total BUA of 26,679.25Sq. Mtrs. PP proposes to construct 10 no of residential buildings.

DECISION OF SEAC

PP remains absent.

SEAC decided to defer the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Subject: Environment Clearance for Residential & Commercial Project

Is a Violation Case: No

1.Name of Project	Archana Kohinoor Glory
2.Type of institution	Private
3.Name of Project Proponent	Mr Ambreshwar K Chikhale
4.Name of Consultant	Mr Rajesh Srivastav PECS- Pollution & Ecology Control Services
5.Type of project	PMC
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. 38/2B+ 3A/2+3, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr Ambreshwar K Chikhale
Room Number:	Office No 203
Floor:	2nd Floor
Building Name:	Arora Tower
Road/Street Name:	M G Road
Locality:	Pune
City:	Pune
11.Area of the project	Corporation Area
12.IOD/IOA/Concession/Plan Approval Number	Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Commencement certificate No. 2607/13
	Approved Built-up Area: 19851.5
13.Note on the initiated work (If applicable)	The construction of wing A is completed & construction of Wing B & C is Completed up to 2 slabs. Total construction of 12915.58 Sqm (BUA)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	13800 Sqm
16.Deductions	4048.5 Sqm
17.Net Plot area	9751.55 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12811.5
	b) Non FSI area (sq. m.): 11055.6
	c) Total BUA area (sq. m.): 23867.11
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12811.47
	Approved Non FSI area (sq. m.): 7040.03
	Date of Approval: 11-11-2013
19.Total ground coverage (m2)	2136.47
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.91 %
21.Estimated cost of the project	485872650

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	Wing A	B+G+10	33.78
2	Wing B	2B+G+10	33.55
3	Wing C	2B+G+10	33.55

23.Number of tenants and shops	No of tenants 216 No No of shops 39 Nos
24.Number of expected residents / users	Residential Users- 1080 Nos Commercial Users- 465 Nos
25.Tenant density per hectare	222 Tenements Per 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)	30 M wide Approach Road
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	Yes, new construction done as per sanction.
30.Details of the demolition with disposal (If applicable)	No Demolition is proposed in the project.

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**	PMC
	Fresh water (CMD):	106.5
	Recycled water - Flushing (CMD):	60.24
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	172.74
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	100.5
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	106.5
	Recycled water - Flushing (CMD):	60.24
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	166.74
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	106.5
Details of Swimming pool (If any)	Not Proposed	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15 m
	Size and no of RWH tank(s) and Quantity:	Harvesting proposed in Recycled Water Tank with filtration
	Location of the RWH tank(s):	Collected in Raw water Tank
	Quantity of recharge pits:	3 Nos
	Size of recharge pits :	2 m X 2m x 3m
	Budgetary allocation (Capital cost) :	1.95 Lac
	Budgetary allocation (O & M cost) :	0.08 Lac P.A.
	Details of UGT tanks if any :	UGT in A wing- 160 Cum UGT in B & C wing- 250 Cum
35.Storm water drainage	**Natural water drainage pattern:**	Nort to South
	Quantity of storm water:	3427.47 Cum
	Size of SWD:	P A 450 mm & 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	145.81 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	176 KLD
	Location & area of the STP:	Shown on the Plumbing Plan
	Budgetary allocation (Capital cost):	24 Lac
	Budgetary allocation (O & M cost):	2.64 Lac P. A.
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	2.5 Kg/day
	Disposal of the construction waste debris:	To be disposed of through authroised agency & Recyclers
Waste generation in the operation Phase:	**Dry waste:**	262.5 Kg/day
	Wet waste:	363.09 Kg/day
	Hazardous waste:	Negligible Kg/day
	Biomedical waste (If applicable):	NIL Kg/day
	STP Sludge (Dry sludge):	15.84 Kg/day
	Others if any:	NIL

Mode of Disposal of waste:	**Dry waste:**	To be disposed of through authroised agency & Recyclers
	Wet waste:	In-situ Composing
	Hazardous waste:	If generated, handed over to authorized agency
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	15.84 Kg/day
	Others if any:	NIL
Area requirement:	**Location(s):**	As shown on the Plan
	Area for the storage of waste & other material:	42 SQM
	Area for machinery:	36 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.66 Lac
	O & M cost:	2 Lac P. A.

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	999.11 Sqm
	No of trees to be cut :	Nil
	Number of trees to be planted :	Trees to be planted as per rule-122 Nos Existing Trees- 49 Nos Hence No. of trees to be planted- 73 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	Nyctanthes arbor-tristis	Parijatak	7	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
2	Ochna obtusata	Kanak Champa	7	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
3	Murraya paniculatum	Kamini/Kunti	7	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
4	Manilkara zapota	Chickoo	7	This small tree attracts Birds and Bees. Edible Fruit.
5	Citrus limon	Lemon	7	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
6	Bauhinia racemosa	Apta	7	Native to Pune, this Shrub has a Religious importance
7	Mimusops elengi	Bakul	7	Native, Evergreen Foliage and Flowering tree has dense branching, hence good for Wind screening. Flowers are deeply fragrant and attracts birds and Bees.
8	Pongamia pinnata	Karanj	7	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
9	Lagerstroemia reginae	Tamhan	7	This Purple Flowering plant is the State flower of Maharashtra.
10	Cassia fistula	Bahava	7	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
11	Erythrina variegata	Pangara	3	Native to Western Maharashtra, this Reddish-Orange Flowering and Deciduous tree attracts lot of Birds for the Nectar.
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)	60 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	704.14 KW
	During Operation phase (Demand load):	530.55 KVA
	Transformer:	630 KVA- 1 No
	DG set as Power back-up during operation phase:	100 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:

Common area lighting such as parking, stairways, passages etc shall be provided with LED bulbs
• LED for entire Drive way and internal roads and pathways
• Solar Water heating system shall be provided for entire scheme as per norms
• Energy efficient pumps.
• Timer for Staircase lighting, Lift Lobby, Parking area and street lights.
• Energy saving devices for passenger lifts.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heater	17.64 %
2	Solar street lights	1.69 %
3	P V Generation	0.11 %
4	Total percentage of saving	19.43 %

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:**	Rs. 23.28 Lacs
	O & M cost:	Rs. 0.48 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	1.22
2	Site Sanitation & Safety	Health & Safety of Labour	1.60
3	Environmental Monitoring	Pollution Monitoring & Control	1.80
4	Disinfection	Health & Safety of Labour	0.5
5	Health Check up	Health & Safety of labour	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	1.95	0.08
2	Sewage Treatment Plant	Waste water treatment	24	2.64
3	Organic Waste Composting	Solid waste management	7.66	2
4	Tree Plantation	Landscape development	7.49	0.37
5	Energy saving	Energy Conservation measures	23.28	0.48
6	Environment Monitoring	Pollution monitoring & Control	0.0	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:	2

Parking details:	**Number and area of basement:**	2 Basements of area- 3801.61 Sqm
	Number and area of podia:	Nil
	Total Parking area:	3476 Sqm
	Area per car:	12.51 Sqm
	Area per car:	12.51 Sqm
	Number of 2-Wheelers as approved by competent authority:	1118 Nos
	Number of 4-Wheelers as approved by competent authority:	1888 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6 m in width
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	Nil
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	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

Environment Clearance for Residential & Commercial Project at S. No. 38/2B+ 3A/2+3, Mohmadwadi, Pune by Archana Kohinoor Glory.

PP submitted their application for prior Environmental clearance for total plot area of 13800 Sq. Mtrs, FSI area of 12811.5 Sq. Mtrs, Non FSI area of 11055.6 Sq.m and total BUA of 23867.11 Sq. Mtrs. PP proposes to construct 3 residential 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

PP remains absent.

SEAC decided to defer the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 70 **Meeting Date** September 7, 2018

Subject: Environment Clearance for CONSTRUCTION PROJECT S. No. 59(P), Tathawade, Tal. Haveli, Pune 411033, Maharashtra

Is a Violation Case: No

1.Name of Project	Ganga Amber
2.Type of institution	Private
3.Name of Project Proponent	M/s. Shree Siddhivinayak Developers Name : Mr. Annuj Goel
4.Name of Consultant	Goldfinch Engineering System Private Limited
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Amalgamation of two adjacent project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S. No. 59(P), Tathawade, Tal. Haveli, Pune 411033, Maharashtra
9.Taluka	Mulshi
10.Village	Tathawade
Correspondence Name:	Mr. Annuj Goel
Room Number:	NA
Floor:	NA
Building Name:	GANGA AMBAR S. No. 59(P), Tathawade, Tal. Haveli, Pune 411033, Maharashtra
Road/Street Name:	S. No. 59(P), Tathawade, Tal. Haveli, Pune 411033, Maharashtra
Locality:	Tathawade
City:	Pimpri Chinchwad
11.Area of the project	PCMC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: PMC / PCMC Plan Sanctioned
	Approved Built-up Area: 98135.05
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.)	24800.00 sq.mt.
16.Deductions	4369.12 sq.mt.
17.Net Plot area	20430.88 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 44495.66 sq.mt.
	b) Non FSI area (sq. m.): 53639.39 sq.mt.
	c) Total BUA area (sq. m.): 98135
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 44495.66
	Approved Non FSI area (sq. m.): 53639.39
	Date of Approval: 31-07-2017
19.Total ground coverage (m2)	8709.09 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35.12% on total plot area
21.Estimated cost of the project	835900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A - TYPE	P+12	36.00 m
2	B - TYPE	P+12	36.00 m
3	C - TYPE	4P+18	66.85 m
4	D - TYPE	4P+10	43.65 m
5	E - TYPE	4P+18	66.85 m
6	F - TYPE (OLD B TYPE)	P+STILT+12	41.55 m
7	G - TYPE (OLD A TYPE)	P+STILT+12	41.20 m
8	H - TYPE	P+STILT+12	41.20 m
9	I - TYPE	G+11	35.95 m

23.Number of tenants and shops	Tenanment : 779 Nos , Shop 12 Nos
24.Number of expected residents / users	Ressidential = 3895 , Commercial = 112
25.Tenant density per hectare	189/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 4.7 km (Hinjewadi 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):	354
	Recycled water - Flushing (CMD):	178
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	No
	Total Water Requirement (CMD) :	552
	Fire fighting - Underground water tank(CMD):	525
	Fire fighting - Overhead water tank(CMD):	20 Each Building
	Excess treated water	298
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	354
	Recycled water - Flushing (CMD):	178
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	No
	Total Water Requirement (CMD) :	318
	Fire fighting - Underground water tank(CMD):	525
	Fire fighting - Overhead water tank(CMD):	20 Each Building
	Excess treated water	NA
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	NoNt applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	15 Nos
	Size of recharge pits :	5m x 3m x 2m
	Budgetary allocation (Capital cost) :	9.5 lacs
	Budgetary allocation (O & M cost) :	1.2 lacs/year
	Details of UGT tanks if any :	"Domestic U/G tank Capacity (cum) : 530 Flushing tank Capacity (cum) : 181cum Fire U/G tank Capacity (cum) : 525"
35.Storm water drainage	**Natural water drainage pattern:**	E to W
	Quantity of storm water:	886.6cum/hr
	Size of SWD:	250-600 mm
Sewage and Waste water	**Sewage generation in KLD:**	496
	STP technology:	MBBR
	Capacity of STP (CMD):	550 (Existing STP-100KLD,STP1-150KLD,STP2-145KLD,STP3-155KLD)
	Location & area of the STP:	Near C TYPE Building
	Budgetary allocation (Capital cost):	Existing STP -24lac ;Proposed STP -102.5lacs
	Budgetary allocation (O & M cost):	Existing STP-6.5lac/yr ;Proposed STP -24 lacs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	59KG
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	692.825 KG
	Wet waste:	1115.675 KG
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	38.2 kg
	Others if any:	NA

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 to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	Near to STP
	Area for the storage of waste & other material:	40 Sqm
	Area for machinery:	36 Sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	23.49 Lacs
	O & M cost:	6.54 Lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	3095.62 Sqm
	No of trees to be cut :	NO
	Number of trees to be planted :	286
	List of proposed native trees :	LIST MENTIONED 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	Anthoceph alluscadamba	kadamb	52	Good for road side plantation and provide shade
2	Albzialeb beck	Shirish	39	Good for road side plantation and provide shade
3	Saracaindica	Sita Ashok	39	Spreading , evergreen tree sutaible for all types of garden
4	Azadir achtaindica	Neem	40	Good for restoration of dryer part, good for air purifier and have medicinal properties
5	Murryap aniculata	Kunti	35	Good for arnamental purpose
6	Michelia Champaka	Son chafa	36	Good for arnamental purpose
7	Langerstromiaflos-regineae	Tamhan	45	Good as a avenue tree, good for group planting around water gardens and ponds.
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	80.31 sq m
2	Stachytarpheta	0.45	80.31 sq m
3	plumbbago zeylanic	0.6	80.31 sq m
4	acorus calamus	0.45	80.31 sq m
5	Korphad	0.6	80.31 sq m
6	Ocimum sanctum	0.45	80.31 sq m
7	Cyimbopogon floxosus	0.45	80.31 sq m
8	Hibiscus	0.75	80.31 sq m
9	Nerium oleander	0.9	80.31 sq m
10	Gokarana	0.6	80.31 sq m

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 KW
	During Operation phase (Connected load):	3732 KW
	During Operation phase (Demand load):	1941 KW
	Transformer:	1) 3 nos. of 630 KVA 2)1 nos. 315 KVA
	DG set as Power back-up during operation phase:	1) 1 NO. OF 125 KVA 2) 1 NO. OF 160 KVA
	Fuel used:	1) 160 KVA DG-27.7 LIT/HR@75% LOADING 2)125 KVA DG-20.2 LIT/HR@ 75% LOADING
	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 panel , Timer Logic Controller, Electronic V3F drive for Lifts, Solar Water Heater	17.04 %

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:**	153.88 lacs
	O & M cost:	6.05 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	Dust Suppression	0.7
2	Site Sanitation, Health Check Up & Safety	Health & Safety	1.0
3	Environmental Monitoring	Air, Water, Noise Soil	0.4

4	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, water, Noise, Soil	Post Project Environment Monitoring	0	0.125
2	Water	Rainwater Harvesting	9.5 lacs	1.2 lacs/year
3	Wastewater	Sewage Treatment Plant	126.5lacs	30.5 lacs/Year
4	Municipal Solid waste	Solid waste Management	23.49	6.54
5	Plantation	Landscaping	10.14	2.08
6	Energy	Energy Savings	153.88 lacs	6.05 lac

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:**	No
	Number and area of podia:	4 nos
	Total Parking area:	18753.40 Sqm
	Area per car:	30 Sqm & 25 Sqm
	Area per car:	30 Sqm & 25 Sqm
	Number of 2-Wheelers as approved by competent authority:	1582 Nos
	Number of 4-Wheelers as approved by competent authority:	398 Nos
	Public Transport:	Available near to side
	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	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

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Construction Project at. No. 59(P), Tathawade,Tal. Haveli, Pune by M/s. Shree Siddhivinayak Developers.

PP submitted their application for prior Environmental clearance for total plot area of 24800.00 Sq. Mtrs, FSI area of 44495.66 Sq. Mtrs, Non FSI area of 53639.39 Sq.m and total BUA of 98,135 Sq. Mtrs. PP proposes to construct 9 residential 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

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

Specific Conditions by SEAC:

1) PP to submit conceptual plan submitted during obtaining for earlier EC and its plot numbers and also subsequent approved plan from local authority.
2) PP to submit plan for EC applied under consideration.
3) PP to submit clarification on any deviation in above mentioned plans.
4) PP to submit details of existing buildings on additional area and sanctions thereof.
5) PP to clarify whether adjoining plot is amalgated, if so then submit the sanction plan .

FINAL RECOMMENDATION

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